LIEBHERR

LG 1750

073806

LG 1750 S

Livro de tabelas de carga

Edição: 05.12.2013

Liebherr-Werk Ehingen GmbH
Postfach 1361
89582 Ehingen/Donau
Alemanha
Telefone: +49 (0)7391/502-0
Telefax: +49 (0)7391/502-3399
E-mail: info.lwe@liebherr.com
www.liebherr.com

Texto básico: blg1750.al.pdf

Edição: 05.12.2013

Índice

I. INDICAÇÕES PARA O USO DAS TABELAS DE CARGAS

PERIGO

Perigo de acidente!

Decisivo para o serviço de grua são os regulamentos descritos no manual de instruções.

▶ Dar atenção às indicações e informações descritas no manual de instruções!

1. Explicações . . . . . pàg. I - 6
2. Existe perigo de queda ou perigo de sobrecarga nos componentes portadores de carga: . . . . . pàg. I - 7
3. Utilização da grua (cargas colectivas) . . . . . pàg. I - 8
4. Controlador de cargas LICCON e interruptor final . . . . . pàg. I - 9
5. Cabrestantes do cabo (meccanismo de elevação) . . . . . pàg. I - 9
6. Colocação do cabo de elevação . . . . . pàg. I - 10
7. Moitões de gancho e ganchos de carga . . . . . pàg. I - 11
   - 7.1 Peso do moitão do gancho mínimo necessário . . . . . pàg. I - 11
     - 7.1.1 Calcular o peso do moitão do gancho mínimo necessário . . . . . pàg. I - 13
     - 7.1.2 Determinar o peso do cabo para o diâmetro do cabo . . . . . pàg. I - 13
     - 7.1.3 Determinar o factor para colocação do cabo . . . . . pàg. I - 14
     - 7.1.4 Exemplo de calculação para 1 cabrestante do cabo de elevação em serviço individual . . . . . pàg. I - 15
     - 7.1.5 Exemplo de calculação para 2 cabrestantes do cabo de elevação em serviço paralelo . . . . . pàg. I - 16
   - 7.2 Comprimento máximo possível de toda a lança . . . . . pàg. I - 16
   - 7.3 Ganchos de carga e moitões de gancho para o serviço de grua com 1 cabrestante do cabo de elevação em serviço individual . . . . . pàg. I - 17
     - 7.3.1 Ganchos de carga 16 E (0 polias do cabo / Carga 16,0 t) . . . . . pàg. I - 17
     - 7.3.2 Moitão do gancho 50 EM (1 polia do cabo / Carga 47,5 t) . . . . . pàg. I - 17
     - 7.3.3 Moitão do gancho 125 DM (3 polia do cabo / Carga 107,5 t) . . . . . pàg. I - 18
     - 7.3.4 Moitão do gancho 200 DM (5 polia do cabo / Carga 164,0 t) . . . . . pàg. I - 18

Índice

7.3.5 Moitão do gancho 250 DM
(7 polia do cabo / Carga 217,2 t) . . . . . pàg. I - 19
7.3.6 Moitão do gancho duplo 320 - 160 DMZ
(5 polias do cabo / Carga 160,0 t) . . . . . pàg. I - 20
7.3.7 Moitão do gancho duplo 400 - 200 DMZ
(7 polias do cabo / Carga 200,0 t) . . . . . pàg. I - 21
7.3.8 Moitão do gancho duplo 600 - 300 DMZ
(11 polias do cabo / Carga 300,0 t) . . . . . pàg. I - 22
7.3.9 Moitão do gancho duplo 750 - 375 DMZ
(13 polias do cabo / Carga 358,9 t) . . . . . pàg. I - 23
7.4 Moitões de gancho para o serviço de grua com
2 cabrestantes do cabo de elevação em serviço paralelo . . . pàg. I - 24
7.4.1 Moitão do gancho duplo 320 - 160 DMZ
(2 x 5 polias do cabo / Carga 320,0 t) . . . . . pàg. I - 25
7.4.2 Moitão do gancho duplo 400 - 200 DMZ
(2 x 7 polias do cabo / Carga 400,0 t) . . . . . pàg. I - 26
7.4.3 Moitão do gancho duplo 600 - 300 DMZ
(2 x 11 polias do cabo / Carga 600,0 t) . . . . . pàg. I - 27
7.4.4 Moitão do gancho duplo 750 - 350 DMZ
(2 x 13 polias do cabo / Carga 717,8 t) . . . . . pàg. I - 28
8. Colocações do cabo de elevação mínimas e pesos do moitão
do gancho mínimo . . . . . pàg. I - 29
8.1 Colocações do cabo de elevação mínimas e pesos do
moitão do gancho mínimo, que por razões de estática são
necessários em determinados modos de serviço . . . . . pàg. I - 30
8.1.1 Colocação do cabo de elevação em serviço
SDWVBW_15°. . . . . pàg. I - 30
8.1.2 Colocação do cabo de elevação em serviço SDWV;
SDWVB; SDWVBW
TAB 128 00 056-00 . . . . . pàg. I - 31
8.1.3 Colocação do cabo de elevação em serviço SLK
TAB 128 00 169-00 . . . . . pàg. I - 33
8.1.4 Colocação do cabo de elevação em serviço SLK
TAB 154 00 034-00 . . . . . pàg. I - 34
8.1.5 Colocação do cabo de elevação em serviço SDWV;
SDWVB; SDWVBW
TAB 154 00 072-00 . . . . . pàg. I - 35
8.1.6 Colocação do cabo de elevação em serviço
S6D2W; S6D2WB
TAB 154 00 101-00 . . . . . pàg. I - 37
8.1.7 Colocação do cabo de elevação em serviço
S6D2WV; S6D2WVB
TAB 154 00 105-00 . . . . . pàg. I - 40
8.1.8 Colocação do cabo de elevação em serviço
SL12D2F; SL12D2FB
TAB 154 00 128-01 . . . . . pàg. I - 42
8.1.9 Colocação do cabo de elevação em serviço
SL9D2F; SL9D2FB
TAB 154 00 189-00 . . . . . pàg. I - 43

Índice

8.2 Colocações do cabo de elevação mínimas necessárias para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON . . . . . pàg. I - 44

8.3 Colocações do cabo de elevação mínimas necessárias em serviço paralelo . . . . . pàg. I - 45

9. Procedimento para determinar a colocação do cabo de elevação e moitão do gancho necessário . . . . . pàg. I - 46

9.1 Passo 1: Determinar a carga . . . . . pàg. I - 46

9.2 Passo 2: Determinar a colocação do cabo de elevação mínima dependente da tracção do cabo máxima permitida ($n_{min\ [Tabela\ de\ colocação]}$) . . . . . pàg. I - 47

9.3 Passo 3: Determinar a colocação do cabo de elevação mínima e os pesos dos moitões do gancho mínimo por razões de estática ($n_{min\ [estática]}$), ($G_{min\ [estática]}$) . . . . . pàg. I - 48

9.4 Passo 4: Determinar a colocação do cabo de elevação mínima para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON ($n_{min\ [pesagem\ da\ carga]}$) . . . . . pàg. I - 48

9.5 Passo 5: Determinar a colocação do cabo de elevação mínima para um comando do serviço paralelo operacional ($n_{min\ [serviço\ paralelo]}$) . . . . . pàg. I - 49

9.6 Passo 6: Determinar a colocação do cabo de elevação mínima (n_{min}) e o peso dos moitões do gancho mínimo (G_{min}), que tem de ser utilizada para levantamento da carga . . . . . pàg. I - 49

10. Reduções da carga . . . . . pàg. I - 50

10.1 Reduções da carga com polia de ramal simples montada . . pàg. I - 50

10.2 Redução da capacidade de carga com barras de ancoragem pousadas . . . . . pàg. I - 50

11. Sistema de lanças . . . . . pàg. I - 51

11.1 Breve descrição dos grupos funcionais do sistema de lanças . . . . . pàg. I - 51

11.1.1 Lança principal . . . . . pàg. I - 51

11.1.2 Dispositivos auxiliares fixos . . . . . pàg. I - 51

11.1.3 Dispositivos auxiliares móveis . . . . . pàg. I - 51

11.1.4 Lança Derrick . . . . . pàg. I - 52

11.1.5 Lastro Derrick . . . . . pàg. I - 52

11.2 Combinação dos grupos funcionais em modos de serviço . . pàg. I - 52

12. Explicação dos símbolos . . . . . pàg. I - 53

Colocação do cabo de elevação . . . . . pàg. I - 53

Carga em toneladas . . . . . pàg. I - 53

Símbolo dos modos de serviço . . . . . pàg. I - 53

Serviço de grua sem acessório . . . . . pàg. I - 54

Serviço de grua com acessório . . . . . pàg. I - 56

Serviço de grua com lança principal com acessório montado . . . pàg. I - 60

Índice

Modos de serviço com vários moitões de gancho . . . . . pàg. I - 61
Peso do moitão do gancho na lança principal em serviço de grua na lança suplementar . . . . . pàg. I - 62
Peso do moitão do gancho na lança suplementar em serviço de grua na lança principal . . . . . pàg. I - 63
Modos de serviço especiais . . . . . pàg. I - 64
Serviço de grua sobre pontão . . . . . pàg. I - 64
Descrição de limitações nos modos de serviço . . . . . pàg. I - 68
Características: 1) . . . . . pàg. I - 68
Características: 2) . . . . . pàg. I - 68
Características: 3) . . . . . pàg. I - 69
Características: 4) . . . . . pàg. I - 69
Características: 5) . . . . . pàg. I - 70
Características: 6) . . . . . pàg. I - 71
Características: 7) . . . . . pàg. I - 71
Características: 8) . . . . . pàg. I - 72
Características: 9) . . . . . pàg. I - 72
Características: 10) . . . . . pàg. I - 73
Características: 11) . . . . . pàg. I - 74
Características: 12) . . . . . pàg. I - 74
Características: 13) . . . . . pàg. I - 75
Características: 14) . . . . . pàg. I - 75
Características: 15) . . . . . pàg. I - 76
Características: 16) . . . . . pàg. I - 77
Características: 17) . . . . . pàg. I - 77
Características: 18) . . . . . pàg. I - 78
Características: 19) . . . . . pàg. I - 79
Características: 20) . . . . . pàg. I - 80
Características: 21) . . . . . pàg. I - 81
Características: 22) . . . . . pàg. I - 81
Características: 23) . . . . . pàg. I - 82
Características: 24) . . . . . pàg. I - 83
Características: 25) . . . . . pàg. I - 83
Características: 26) . . . . . pàg. I - 84
Características: a) . . . . . pàg. I - 85
Características: *) . . . . . pàg. I - 86
Características: spec.) . . . . . pàg. I - 86
Características: SP . . . . . pàg. I - 87
Características: n=60 . . . . . pàg. I - 87
Símbolos dos raios de acção . . . . . pàg. I - 88
Comprimento da lança de grelha principal . . . . . pàg. I - 89
Curto código . . . . . pàg. I - 89
Colocação do cabo de elevação . . . . . pàg. I - 89

Índice

Ângulo da lança principall . . . . . pàg. I - 90
Raio de lastro Derrick . . . . . pàg. I - 90
Velocidade máxima do vento permitida . . . . . pàg. I - 90
Contra-peso . . . . . pàg. I - 90
Serviço de grua "Grua apoiada" . . . . . pàg. I - 90
Distância entre os lastros Derrick . . . . . pàg. I - 91
Zona de rotação . . . . . pàg. I - 91
13. Velocidade de rotação permitida e inclinação lateral. . . . . pàg. I - 92
13.1 Velocidade de rotação permitida máxima do chassi superior com carga nominal suspensa . . . . . pàg. I - 92
13.2 Inclinação lateral máxima permitida da grua durante o trabalho com as tabelas de carga . . . . . pàg. I - 92
14. Influências do vento em serviço de grua . . . . . pàg. I - 93
14.1 Definição dos termos . . . . . pàg. I - 93
14.2 Influência do vento sobre o dispositivo de segurança contra sobrecarga LICCON . . . . . pàg. I - 95
14.2.1 Vento por trás . . . . . pàg. I - 95
14.2.2 Vento pela frente . . . . . pàg. I - 95
14.2.3 Vento lateral . . . . . pàg. I - 95
14.3 Velocidade do vento permitida e cálculo da superfície da carga submetida ao vento . . . . . pàg. I - 96
14.3.1 Determinação da velocidade do vento máxima permitida . . . . . pàg. I - 98
14.3.2 Calculação da velocidade do vento máxima permitida com fórmula . . . . . pàg. I - 98
14.3.3 Determinação da velocidade do vento máxima permitida com os Diagramas da força do vento . . . . . pàg. I - 100
14.3.4 Diagramas da força do vento . . . . . pàg. I - 102

II. Tabelas de carga

1. Explicações

1.1 Os valores de carga das tabelas de carga estão indicados em toneladas [t].

1.2 O raio de acção é a distância horizontal do centro de gravidade da carga para o eixo de rotação do chassis superior da grua, medida no chão. Nisto inclui-se a flexão da lança sob carga nominal.

1.3 Não são permitidas outras posições da lança que não as indicadas nas tabelas de carga.

1.4 Mesmo sem carga, a lança só pode ser movimentada nas zonas para os quais são indicados valores de carga, pois de contrário há o perigo desta se virar. No modo de serviço normal isto está salvaguardado pela segurança contra sobrecarga. Ao comutar "Montagem" (com a tecla de chave de montagem), a lança não deve descer para além do raio de acção da lança.

1.5 Nos valores de carga indicados incluem-se os pesos de meios de levantamento, recepção e fixação da carga. Assim o peso possível da carga a levantar é na realidade inferior, devido aos pesos acima mencionados.

1.6 Em alguns tipos de serviço será indicado no símbolo de tipos de serviço informações e restrições adicionais. *Veja „Descrição de limitações nos modos de serviço“ na página 68.*

PERIGO

Perigo de acidente!

▶ As restrições e as condições para o serviço de grua devem ser cumpridas obrigatoriamente!

1.7 Para modos de serviço com o carro do lastro ou carga suspensa é necessário definir com o planeador LICCON qual a carga Derrick necessária para a carga a levantar.

2. Existe perigo de queda ou perigo de sobrecarga nos componentes portadores de carga:

2.1 quando com a grua não apoiada a plataforma giratória é girada para fora da direcção longitudinal do veículo. Antes de girar o chassi superior a grua tem de ser apoiada sem falta.

2.2 quando a grua não está apoiada nem soldada correctamente sobre os 4 apoios hidráulicos. Antes de apoiar a suspensão dos eixos tem de ser bloqueada. Todas as rodas têm de estar livre levantadas do solo. Com ajuda da unidade de comando dos estabilizadores tem de nivelar a grua na horizontal. A posição da grua na horizontal tem de ser controlada também durante o serviço de grua em períodos regulares e sendo necessário corrigida.

2.3 quando as longarinas corrediças não estão deslocadas para fora exactamente para a medida indicada da tabela de carga a ser utilizada (para os dois lados uniformemente).

2.4 quando as longarinas corrediças não estão travadas através de cavilhas.

2.5 quando as placas de apoio não estão fundamentadas correspondentemente às condições do terreno sobre uma grande área com materiais estáveis.

2.6 quando o subsolo não está em condições, de sustentar com seguridade o peso de serviço da grua máx. mais o peso da carga.

2.7 quando o subsolo não é plano e tem uma inclinação. *Veja „13.2 Inclinação lateral máxima permitida da grua durante o trabalho com as tabelas de carga“ na página 92.*

2.8 quando não é respeitada suficiente distância para fossas, caves e taludes.

2.9 quando as cargas indicadas nas tabelas de carga, comprimentos da lança e alcances da lança são ultrapassadas.

2.10 quando através de um comando incorrecto dos movimentos da grua a carga suspensa começa em movimentos pendulares.

2.11 quando é executada tracção oblíqua. O mais perigoso é tracção oblíqua transversal para direcção longitudinal da lança. É proibida a tracção oblíqua!

3. Utilização da grua (cargas colectivas)

Gruas móveis e gruas com rastos Liebherr são construídas para o serviço de montagem (classe da cargas colectivas = "leve" = Q1 respectivamente L1). Se as gruas forem aplicadas em serviço de magnete, de balde de maxilas, ou serviço de transbordo (classe de cargas coletivas = "médio" ou pesado), então têm de ser observados vários pontos. Consulte o Capítulo 8.01 "Inspecção periódica de gruas" no manual de serviço da grua.

Observação

▶ Caso a grua for carregada através de cargas colectivas elevadas acima da média, por exemplo através de trabalhos em serviço de magnete, balde de maxilas, ou de transbordo, então os intervalos de inspecção têm de ser correspondentemente encurtados.

NOTA

Desgaste e fendas antecipadas nos componentes estruturais!

Quando a grua não é aplicada em serviço de montagem mas sim em serviço de magnete, balde de maxilas, ou de transbordo, então deverá ter em conta com um desgaste antecipado nos componentes do grupo propulsor e/ou com fendas nas partes da estrutura de aço de sustentação.

▶ Nós aconselhamos por isso urgentemente, em serviço de magnete, balde de maxilas, ou de transbordo reduzir as cargas a 50% em comparação com as indicações na correspondente tabela da capacidade de carga.

NOTA

Elevado desgaste do cabo e danificações do cabo!

Para que seja mantido um desgaste mínimo possível nos cabos de elevação em serviço de magnete, balde de maxilas, ou de transbordo, é aconselhado a utilização de um comprimento de cabo especial!

Se não for utilizado nenhum comprimento de cabo especial, então as camadas de cabo não utilizadas poderão se soltar. Com elevadas tracções do cabo, o cabo nas camadas de cabo não utilizadas pode ser puxado e causar danificações no cabo!

▶ Utilizar um comprimento de cabo especial em serviço de magnete, balde de maxilas, ou de transbordo, para que na posição inferior do moitão do gancho estar desenrolado o comprimento do cabo total (até a ca. de 3-5 enrolamentos restantes)!

4. Controlador de cargas LICCON e interruptor final

O controlador de cargas electrónico LICCON desconecta-se quando se ultrapassa o momento da carga autorizado durante o movimento de levantamento/ descida da lança e da extensão telescópica. Uma descarga devido a um movimento contrário é possível. O funcionamento do controlador de cargas LICCON deve ser controlado antes de cada utilização.

4.1 O controlador de cargas LICCON deve-se ajustar ao estado actual do equipamento da grua através das teclas de função ou introduzindo o código correspondente de 4 algarismos.

4.2 O controlador de cargas LICCON é um dispositivo de segurança e não se pode utilizar como uma medida de serviço de desconexão. O condutor da grua deve conhecer o peso da carga antes de cada ciclo de carga. A existência de um controlador de cargas LICCON não tira a responsabilidade ao condutor da grua.

4.3 Na unidade de comando e de visualização do controlador de cargas do dispositivo LICCON aparecem indicados entre outras informações o raio de acção da lança, a altura das polias, a carga e o grau da utilização da capacidade da própria grua. Graças ao dito dispositivo, é possível uma visualização constante sobre a zona de trabalho e da utilização da grua.

4.4 O interruptor fim do curso na ponta das lanças (lança de grelha, lança auxiliar) impedem que o moitão do gancho se introduza no cabeçal da lança. O funcionamento dos interruptores fianis deve-se comprovar antes de cada serviço com a grua.

4.5 Os interruptores finais de elevação de cames para a engrenagem dispostos nos cabrestantes de elevação asseguram que 3 voltas de enrolamento de cabo fiquem como medida de segurança nos tambores do cabo. Além disso ao alcançar a última camada de cabo, alguém deve assegurar com um controlo visual que as três voltas de cabo fiquem ainda no cabrestante. Se os cabrestante de elevação dar corda demais o cabo de elevação ao elevá-lo assim como no momento de ser mudado o cabo de elevação, o interruptor final respectivo deve-se ajustar novamente antes de voltar a pôr em serviço.

4.6 O condutor da grua deve assegurar-se do funcionamento do controlador de cargas LICCON antes de cada utilização. Por danos na grua e possíveis danos que sejam originados porque não funciona ou por estar fora de funcionamento o controlador de cargas LICCON, o fabricante da grua não assume qualquer responsabilidade.

5. Cabrestantes do cabo (meccanismo de elevação)

5.1 Os cabrestantes do cabo com a função de meccanismos de elevação estão concebidos para uma tracção máxima de 160 kN. Esta tracção do cabo não deve em caso algum ser ultrapassada. Seguidamente se deve seleccionar a quantidade mínima de ramais para o cabo (colocação do cabo) dependendo do peso de carga para elevar (ver tabela "Colocação do vabo de elevação" no capítulo II).

5.2 Para evitar a formação de cabo frouxo é necessário que durante a montagem dos dispositivos suplementares (por ex.: polia de ramal simples) o correr do cabo pelo cabrestante seja controlado por uma pessoa!

6. Colocação do cabo de elevação

6.1 O cabo de elevação tem de ser colocado dependente da tracção do cabo máxima do mecanismo de elevação e do peso da carga a ser levantada entre o cabeçal da lança e moitão do gancho.

6.2 Em colocação múltipla do cabo de elevação reduz-se o grau de aproveitamento do moitão do gancho através da fricção das polias e da flexão do cabo. Com isso podem ser puxadas com uma tracção do cabo de por exemplo 160 KN com 10 colocações em vez de 1600 KN (161,0 t) somente 1493 KN (150,2 t).

6.3 As cargas máximas, dependente do número de ramais de cabos de elevação, podem se recolhidas da tabela "Colocação do cabo de elevação" no Capítulo II deste manual.

6.3.1 Serviço de grua com 1 cabrestante do cabo de elevação em serviço individual.

Exemplo: cálculo do número de colocações do cabo para o levantamento de uma carga de 380 t.
A colocação do cabo necessária com 1 cabrestante do cabo de elevação segundo a tabela "Colocação do cabo de elevação" no Capítulo II é de:
29 ramais do cabo (380,1 t)

6.3.2 Serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo.

Em serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo será determinada a colocação necessária em 3 passos.

Passo 1: a carga será dividida por 2, já que a carga será acolhida em partes iguais pelo cabrestante do cabo de elevação 1 e cabrestante do cabo de elevação 2.
Passo 2: a colocação do cabo necessária para 1 cabrestante do cabo de elevação será determinada.
Passo 3: a colocação do cabo determinada para 1 cabrestante do cabo de elevação será aplicada em ambos cabrestantes do cabo de elevação.
Exemplo: cálculo do número de colocações do cabo necessário para o levantamento de uma carga de 380 t com 2 cabrestantes do cabo de elevação em serviço paralelo.
Passo 1: 380 t / 2 cabrestantes do cabo de elevação = 190 t.
Passo 2: a colocação do cabo necessária com 1 cabrestante do cabo de elevação segundo a tabela "Colocação do cabo de elevação" no Capítulo II:
13 ramais do cabo (191,0 t)
Passo 3: a colocação do cabo necessária com 2 cabrestantes do cabo de elevação em serviço paralelo é assim de:
2 x 13 ramais do cabo = 26 ramais do cabo (2 x 191,0 t = 382,0 t)

6.4 Antes de ser aplicada a colocação do cabo determinada em serviço de grua, tem de ser controlado se a colocações do cabo de elevação mínimo e pesos do moitão do gancho mínimo são necessários. *Veja „8. Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo“ na página 29.*

6.5 O número de colocações do cabo de elevação na unidade de comando e indicação da limitação de momento de carga tem de corresponder ao número de colocações do cabo de elevação na grua.

7. Moitões de gancho e ganchos de carga

7.1 Peso do moitão do gancho mínimo necessário

AVISO

Queda de componentes estruturais e moitão do gancho!

Se o peso do moitão do gancho for escolhido muito baixo, o cabo de elevação puxa aos solavancos o moitão do gancho para cima a partir duma determinada altura de elevação entre o cabeçal da lança e cabrestante. Como consequência podem ser danificados o cabeçal da lança e o moitão do gancho. Componentes estruturais danificados e o cabo de elevação entre o cabeçal da lança e cabrestante podem cair.
Se ao desenrolar o cabrestante se formar cabo frouxo entre o cabrestante e o cabeçal da lança, o moitão do gancho pode cair de súbito para baixo. Pessoas podem ser gravemente feridas ou serem mortas!

- ▶ Calcular o peso do moitão do gancho mínimo necessário antes de levantar a carga!
- ▶ Escolher o peso do moitão do gancho dependente da calculação!

Quando o peso do moitão do gancho é muito baixo:

- ▶ Escolher moitão do gancho pesado ou aumentar o peso do moitão do gancho com meios de recepção de carga, meios de recepção de carga, pesos suplementares ou jogos de modificação!

NOTA

Danificações do cabo por razões do peso do moitão do gancho ser muito baixo!

Se o moitão do gancho for operado com uma colocação do cabo superior, do que é necessária para a carga no respectivo comprimento da lança, então aumenta-se o peso do moitão do gancho mínimo necessário.
Quando o peso do moitão do gancho é muito baixo para tensionar suficientemente o cabo de elevação, podem aparecer ao baixar e levantar o moitão do gancho em consequência de formação de cabos frouxos, problemas de enrolamento nos cabrestantes. As consequências serão danificações no cabos.

Quando para o modo de serviço não é necessário nenhuma colocação do cabo de elevação mínima dependente do sistema:

- ▶ Colocação do moitão do gancho dependente da tracção do cabo máxima e do peso da carga mínima a ser levantada!

Quando o peso do moitão do gancho é muito baixo:

- ▶ Escolher moitão do gancho pesado ou aumentar o peso do moitão do gancho com meios de recepção de carga, meios de recepção de carga, pesos suplementares ou jogos de modificação!

Observação

Recomendação para escolher o peso do moitão do gancho!

Quando através de um aumento do peso adicional do moitão do gancho não é ultrapassada a capacidade de carga máxima na respectiva configuração da lança:

▶ Aumentar adicionalmente o peso do moitão do gancho mínimo necessário para no mínimo 10 por cento!

Quando um aumento do peso adicional do moitão do gancho não é possível por razões da capacidade de carga máxima na respectiva configuração da lança:

▶ Descer o moitão do gancho somente com muito cuidado!

Observação

Dar atenção ao peso do moitão do gancho permitido para levantar e depositar o sistema da lança!

Quando através do aumento do próprio peso do moitão do gancho for ultrapassado o peso do moitão do gancho permitido para levantar e depositar o sistema da lança, então o sistema da lança não pode ser levantado e depositado com este peso do moitão do gancho.

▶ Dar atenção ao peso do moitão do gancho máximo permitido nas tabelas de levantamento e depósito para levantamento e depósito!

Quando o peso do moitão do gancho permitido para levantamento e depósito for ultrapassado:

▶ Desmontar os pesos suplementares para o levantamento e depósito do sistema da lança!

7.1.1 Calcular o peso do moitão do gancho mínimo necessário

G = **L** x **M** x **N** x **F**

Tab. 1 Fórmula para calculação do peso do moitão do gancho mínimo necessário

Abreviatura	Designação	Unidade
G	Peso do moitão do gancho mínimo necessário	kg
L	Comprimento da lança total	m
M	Peso do cabo	kg/m
N	Colocação do cabo	-
F	Factor	-

Tab. 2 Explicação do variável para calculação do peso do moitão do gancho mínimo necessário

7.1.2 Determinar o peso do cabo para o diâmetro do cabo

Diâmetro do cabo	Peso do cabo M
13 mm	0,85 kg/m
15 mm	1,12 kg/m
17 mm	1,45 kg/m
19 mm	1,81 kg/m
21 mm	2,24 kg/m
23 mm	2,67 kg/m
25 mm	3,09 kg/m
28 mm	3,94 kg/m
30 mm	4,46 kg/m
32 mm	5,09 kg/m
38 mm	7,21 kg/m
40 mm	7,99 kg/m
52 mm	13,50 kg/m

Tab. 3 Diâmetro do cabo e peso do cabo

7.1.3 Determinar o factor para colocação do cabo

Colocação do cabo N	Factor F
1	1,31
2	1,34
3	1,36
4	1,39
5	1,41
6	1,44
7	1,46
8	1,49
9	1,52
10	1,54
11	1,57
12	1,60
13	1,63
14	1,65
15	1,68
16	1,71
17	1,74
18	1,77
19	1,80
20	1,83
21	1,87
22	1,90
23	1,93
24	1,96
25	2,00
26	2,03
27	2,06
28	2,10
29	2,13
30	2,17

Tab. 4 Colocação do cabo e factor

7.1.4 Exemplo de calculação para 1 cabrestante do cabo de elevação em serviço individual

Calculação do peso do moitão do gancho necessários para o serviço de grua com 1 cabrestante do cabo de elevação em serviço individual com moitão do gancho simples:

Configuração da grua:

- Comprimento da lança principal: 35,0 m
- Comprimento da lança suplementar: 84,0 m
- Diâmetro do cabo: 28 mm
- Colocação do cabo: 7 ramais do cabo

Variável para calculação:

L = Comprimento da lança total = 119,0 m
M = Peso do cabo para diâmetro do cabo 28 mm = 3,94 kg/m
N = Colocação do cabo = 7
F = Factor para 7 ramais do cabo = 1,46

Calculação:

G = **L** x **M** x **N** x **F**
G = 119,0 m x 3,94 kg/m x 7 x 1,46
G = 4791,75 kg

O peso do moitão do gancho mínimo necessário tem de ser de 4792 kg e ser adicionalmente aumentado para no mínimo 10 por cento (479,2 kg) para 5271,2 kg. Através do aumento do peso adicional do moitão do gancho a capacidade de carga máxima não pode ser ultrapassada na respectiva configuração da lança.

7.1.5 Exemplo de calculação para 2 cabrestantes do cabo de elevação em serviço paralelo

Calculação do peso do moitão do gancho necessário para o serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo com moitão do gancho duplo:

Configuração da grua:

- Comprimento da lança principal: 70,0 m
- Comprimento da lança suplementar: -
- Diâmetro do cabo: 28 mm
- Colocação do cabo: 2 x 14 ramais do cabo

Variável para calculação:

L = Comprimento da lança total = 70,0 m
M = Peso do cabo para diâmetro do cabo 28 mm = 3,94 kg/m
N = Colocação do cabo = (2 x 14)
F = Factor para 14 ramais do cabo = 1,65

Calculação:

G = **L** x **M** x **N** x **F**
G = 70,0 m x 3,94 kg/m x (2 x 14) x 1,65
G = 12741,96 kg

O peso do moitão do gancho mínimo necessário tem de ser de 12742 kg e ser adicionalmente aumentado para no mínimo 10 por cento (1274,2 kg) para 14016,2 kg. Através do aumento do peso adicional do moitão do gancho a capacidade de carga máxima não pode ser ultrapassada na respectiva configuração da lança.

7.2 Comprimento máximo possível de toda a lança

O comprimento da lança pode ser limitado em relação ao número de cabos e ao peso do moitão do gancho.

O comprimento máximo possível de toda a lança com um determinado número de cabos e um determinado peso do moitão do gancho está descrito na lista de moitões de gancho e ganchos de carga.

Observação

▶ A base para a calculação do valor especificado na lista de moitões de gancho e ganchos de carga são os dados específicos da grua. Os dados específicos da grua são para o gancho de carga e moitões de gancho prescritos e têm de condizer com a configuração da grua.

7.3 Ganchos de carga e moitões de gancho para o serviço de grua com 1 cabrestante do cabo de elevação em serviço individual

Dados específicas da grua		
Diâmetro do cabo:	28.0	[mm]
Peso do cabo:	0.00394	[t/m]
Fragmentação da lança:	7	[m]
Comprimento da lança min.:	21	[m]
Comprimento da lança máx.:	196	[m]
Quantidade de cabrestantes de elevação:	1	
Comprimento do cabo de elevação:	1250	[m]
Derrick até dispositivo de desvio do cabo de elevação:	20.0	[m]
Min. altura acima do solo:	0.0	[m]

7.3.1 Ganchos de carga 16 E (0 polias do cabo / Carga 16,0 t)

Número ramal	**Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]**				
	1,1 t sem Pesos adicionais				
1	196				

7.3.2 Moitão do gancho 50 EM (1 polia do cabo / Carga 47,5 t)

Número ramal	**Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]**				
	1,0 t sem Pesos adicionais	**2,0 t com 2 pesos adicionais**	**3,0 t com 4 pesos adicionais**		
3	56	119	182		
2	91	189	196		
1	189	196	196		

7.3.3 Moitão do gancho 125 DM (3 polia do cabo / Carga 107,5 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	2,5 t sem Pesos adicionais	3,5 t com 2 pesos adicionais (largura 80 mm)	4,5 t com 2 pesos adicionais (largura 150 mm)	5,5 t com 4 pesos adicionais	
7	56	84	105	133	
6	70	98	126	161	
5	84	119	161	196	
4	112	154	196	196	
3	154	196	196	196	
2	196	196	196	196	
1	196	196	196	196	

7.3.4 Moitão do gancho 200 DM (5 polia do cabo / Carga 164,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]					
	2,0 t sem Pesos adicionais	3,0 t com 2 pesos adicionais	4,0 t com 4 pesos adicionais	5,0 t com 6 pesos adicionais	6,0 t com 8 pesos adicionais	7,0 t com 10 pesos adicionais
11	28	42	56	70	84	98
10	28	49	63	77	98	105
9	35	49	70	91	105	119
8	42	63	84	105	126	126
7	49	70	98	119	147	147
6	56	84	112	147	168	168
5	70	105	140	175	196	196
4	91	133	182	196	196	196
3	119	182	196	196	196	196
2	189	196	196	196	196	196
1	196	196	196	196	196	196

7.3.5 Moitão do gancho 250 DM (7 polia do cabo / Carga 217,2 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	3,5 t sem Pesos adicionais	5,5 t com 2 pesos adicionais	7,5 t com 4 pesos adicionais		
15	35	49	70		
14	35	56	77		
13	42	63	84		
12	42	70	91		
11	49	77	98		
10	56	84	105		
9	63	98	119		
8	70	112	126		
7	84	133	147		
6	98	161	168		
5	119	196	196		
4	154	196	196		
3	196	196	196		
2	196	196	196		
1	196	196	196		

7.3.6 Moitão do gancho duplo 320 - 160 DMZ (5 polias do cabo / Carga 160,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	4,0 t sem Pesos adicionais	5,0 t com 2 pesos adicionais (largura 70 mm)	6,0 t com 2 pesos adicionais (largura 140 mm)	7,0 t com 4 pesos adicionais	
11	56	70	84	98	
10	63	77	98	105	
9	70	91	105	119	
8	84	105	126	126	
7	98	119	147	147	
6	112	147	168	168	
5	140	175	196	196	
4	182	196	196	196	
3	196	196	196	196	
2	196	196	196	196	
1	196	196	196	196	

7.3.7 Moitão do gancho duplo 400 - 200 DMZ (7 polias do cabo / Carga 200,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	5,5 t sem Pesos adicionais	7,5 t com 2 pesos adicionais			
15	49	70			
14	56	77			
13	63	84			
12	70	91			
11	77	98			
10	84	105			
9	98	119			
8	112	126			
7	133	147			
6	161	168			
5	196	196			
4	196	196			
3	196	196			
2	196	196			
1	196	196			

7.3.8 Moitão do gancho duplo 600 - 300 DMZ (11 polias do cabo / Carga 300,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	8,2 t sem Pesos adicionais				
23	42				
22	49				
21	49				
20	56				
19	56				
18	56				
17	63				
16	70				
15	70				
14	77				
13	84				
12	91				
11	98				
10	105				
9	119				
8	126				
7	147				
6	168				
5	196				
4	196				
3	196				
2	196				
1	196				

7.3.9 Moitão do gancho duplo 750 - 375 DMZ (13 polias do cabo / Carga 358,9 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	11,0 t sem Pesos adicionais	13,0 t com 2 pesos adicionais	15,0 t com 4 pesos adicionais	17,0 t com 6 pesos adicionais	
27	42	42	42	42	
26	42	42	42	42	
25	42	42	42	42	
24	42	42	42	42	
23	49	49	49	49	
22	49	49	49	49	
21	49	49	49	49	
20	56	56	56	56	
19	56	56	56	56	
18	56	56	56	56	
17	63	63	63	63	
16	70	70	70	70	
15	70	70	70	70	
14	77	77	77	77	
13	84	84	84	84	
12	91	91	91	91	
11	98	98	98	98	
10	105	105	105	105	
9	119	119	119	119	
8	126	126	126	126	
7	147	147	147	147	
6	168	168	168	168	
5	196	196	196	196	
4	196	196	196	196	
3	196	196	196	196	
2	196	196	196	196	
1	196	196	196	196	

7.4 Moitões de gancho para o serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo

Dados específicas da grua		
Diâmetro do cabo:	28.0	[mm]
Peso do cabo:	0.00394	[t/m]
Fragmentação da lança:	7	[m]
Comprimento da lança min.:	21	[m]
Comprimento da lança máx.:	196	[m]
Quantidade de cabrestantes de elevação:	2	
Comprimento do cabo de elevação:	1250	[m]
Derrick até dispositivo de desvio do cabo de elevação:	20.0	[m]
Min. altura acima do solo:	0.0	[m]

7.4.1 Moitão do gancho duplo 320 - 160 DMZ (2 x 5 polias do cabo / Carga 320,0 t)

Peso do moitão do gancho: 5,0 t até 9,0 t

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	5,0 t sem Pesos adicionais	6,0 t com 2 pesos adicionais (largura 2x70 mm)	7,0 t com 2 pesos adicionais (largura 2x140 mm)	8,0 t com 4 pesos adicionais (largura 2x70 mm e 2x140 mm)	9,0 t com 4 pesos adicionais (largura 4x140 mm)
2 x 11	35	42	49	56	63
2 x 10	35	49	56	63	70
2 x 9	42	49	63	70	77
2 x 8	49	63	70	84	91
2 x 7	56	70	84	98	105
2 x 6	70	84	98	112	126

Peso do moitão do gancho: 10,0 t até 12,0 t

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	10,0 t com 6 pesos adicionais (largura 2x70 mm e 4x140 mm)	11,0 t com 6 pesos adicionais (largura 6x140 mm)	12,0 t com 8 pesos adicionais (largura 2x70 mm e 6x140 mm)		
2 x 11	70	77	84		
2 x 10	77	84	98		
2 x 9	91	98	105		
2 x 8	105	112	126		
2 x 7	119	133	147		
2 x 6	147	161	168		

7.4.2 Moitão do gancho duplo 400 - 200 DMZ (2 x 7 polias do cabo / Carga 400,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	7,0 t sem Pesos adicionais	9,0 t com 2 pesos adicionais	11,0 t com 4 pesos adicionais	13,0 t com 6 pesos adicionais	15,0 t com 8 pesos adicionais
2 x 15	35	42	49	63	70
2 x 14	35	49	56	70	77
2 x 13	42	49	63	77	84
2 x 12	42	56	70	84	91
2 x 11	49	63	77	91	98
2 x 10	56	70	84	105	105
2 x 9	63	77	98	119	119
2 x 8	70	91	112	126	126
2 x 7	84	105	133	147	147
2 x 6	98	126	161	168	168

7.4.3 Moitão do gancho duplo 600 - 300 DMZ (2 x 11 polias do cabo / Carga 600,0 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	11,0 t sem Pesos adicionais	13,5 t com 2 pesos adicionais	16,0 t com 4 pesos adicionais		
2 x 23	28	35	42		
2 x 22	28	35	42		
2 x 21	35	42	49		
2 x 20	35	42	49		
2 x 19	35	49	56		
2 x 18	42	49	56		
2 x 17	42	56	63		
2 x 16	49	56	70		
2 x 15	49	63	70		
2 x 14	56	70	77		
2 x 13	63	77	84		
2 x 12	70	84	91		
2 x 11	77	98	98		
2 x 10	84	105	105		
2 x 9	98	119	119		
2 x 8	112	126	126		
2 x 7	133	147	147		
2 x 6	161	168	168		

7.4.4 Moitão do gancho duplo 750 - 350 DMZ (2 x 13 polias do cabo / Carga 717,8 t)

Número ramal	Comprimento máximo possível da lança total [m] com peso do moitão do gancho [t]				
	14,0 t sem Pesos adicionais	16,0 t com 2 pesos adicionais	18,0 t com 4 pesos adicionais	20,0 t com 6 pesos adicionais	
2 x 27	28	35	35	42	
2 x 26	28	35	42	42	
2 x 25	35	35	42	49 (a)	
2 x 24	35	42	42	49 (a)	
2 x 23	35	42	49	56 (a)	
2 x 22	42	42	49	56 (a)	
2 x 21	42	49	49	63 (a)	
2 x 20	42	49	56	63 (a)	
2 x 19	49	56	56	63 (a)	
2 x 18	49	56	56	63 (a)	
2 x 17	56	63	63	70 (a)	
2 x 16	63	70	70	70	
2 x 15	70	70	70	70	
2 x 14	70	77	77	77	
2 x 13	84	84	84	84	
2 x 12	91	91	91	91	
2 x 11	98	98	98	98	
2 x 10	105	105	105	105	
2 x 9	119	119	119	119	
2 x 8	126	126	126	126	
2 x 7	147	147	147	147	
2 x 6	168	168	168	168	

(a) = Em valores marcados com (a) (comprimento da lança total) o moitão do gancho não pode por razões do comprimento do cabo de elevação ser descido até ao solo!

8. Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo

Para serviço de grua seguro são necessárias por diversas razões as colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo.

Existem 4 diferentes critérios de limitação para o cálculo da colocação do cabo de elevação mínima. Cada um dos critérios conduz a uma colocação do cabo de elevação mínima.

Critérios de limitação são:

1.) Tabela de colocação do cabo de elevação ($n_{min\ [Tabela\ de\ colocação]}$)

2.) Razões estáticas ($n_{min\ [estática]}$), ($G_{min\ [estática]}$)

3.) Pesagem da carga segura ($n_{min\ [Pesagem\ da\ carga]}$)

4.) Comando de serviço paralelo operacional ($n_{min\ [Serviço\ paralelo]}$)

1.) Colocação do cabo de elevação mínima por razão da tracção do cabo máxima permitida ($n_{min\ [Tabela\ de\ colocação]}$)

Colocação do cabo de elevação mínima dependente da tracção do cabo máxima do mecanismo de elevação que é necessária para levantamento da carga. *Consulte a tabela "Colocação do cabo de elevação" no Capítulo II deste manual.*

2.) Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo por razões estáticas ($n_{min\ [estática]}$), ($G_{min\ [estática]}$)

Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo que em determinados modos de serviço são necessários para impedir, que a grua se movimente para trás descontroladamente para posições da lança a pique e tombe. *Veja „8.1 Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo, que por razões de estática são necessários em determinados modos de serviço“ na página 30.*

3.) Colocações do cabo de elevação mínimas para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON ($n_{min\ [Pesagem\ da\ carga]}$)

Colocações do cabo de elevação mínimas que geralmente são necessárias em todos os modos de serviço para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON. *Veja „8.2 Colocações do cabo de elevação mínimas necessárias para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON“ na página 44.*

4.) Colocações do cabo de elevação mínimas para comando do serviço paralelo operacional ($n_{min\ [Serviço\ paralelo]}$)

Colocações do cabo de elevação mínimas as quais garantem, um impedimento de uma posição inclinada não permitida do moitão do gancho em serviço paralelo. *Veja „8.3 Colocações do cabo de elevação mínimas necessárias em serviço paralelo“ na página 45.*

Antes do serviço de grua têm de ser determinadas as colocações do cabo de elevação mínimas de todos os 4 critérios de limitação. A maior colocação do cabo de elevação mínima determinada é decisiva e tem de ser utilizada para o levantamento da carga!

8.1 Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo, que por razões de estática são necessários em determinados modos de serviço

8.1.1 Colocação do cabo de elevação em serviço SDWVBW_15°

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e peso dos moitões do gancho mínimo não for respeitada, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

- ▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- ▶ O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-77 / W-14	17	2 x 12	55	87
S-84 / W-14	19	2 x 10	55	87
S-91 / W-14	21	2 x 8	55	87

8.1.2 Colocação do cabo de elevação em serviço SDWV; SDWVB; SDWVBW TAB 128 00 056-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

- ▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- ▶ O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-35 / W-14	7	2 x 4	78	87
S-42 / W-14	7	2 x 4	76	87
S-49 / W-14	9	2 x 4	73	87
S-56 / W-14	13	2 x 4	69	87
S-63 / W-14	16	2 x 4	67	87
S-70 / W-14	16	2 x 8	64	87

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-49 / W-21	7	2 x 4	84	87
S-56 / W-21	7	2 x 4	82	87
S-63 / W-21	7	2 x 4	80	87
S-70 / W-21	9	2 x 4	78	87
S-77 / W-21	11	2 x 4	77	87
S-84 / W-21	13	2 x 4	75	87
S-91 / W-21	15	2 x 4	73	87

Em serviço com as combinações da lança S-35 / W-21 e S-42 / W-21 o moitão do gancho pode ser baixado de qualquer forma.

Decurso do cabo de elevação do cabeçal W através das polias do cabo na parte mais inferior do cavalete W-A- I e II.

8.1.3 Colocação do cabo de elevação em serviço SLK TAB 128 00 169-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e peso do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

- ▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- ▶ O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]		**(2) Peso mínimo do moitão do gancho**	**(3) Colocação do cabo de elevação mínimo**	**(4) Ângulo lança principal**	
SL	**K**	**[t]**		**de [°]**	**até [°]**
SL-56 até SL-70	K-52,5 até K-63	5	5	70	87

8.1.4 Colocação do cabo de elevação em serviço SLK
TAB 154 00 034-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás A grua pode tombar!

- ▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- ▶ O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]		**(2) Peso mínimo do moitão do gancho**	**(3) Colocação do cabo de elevação mínimo**	**(4) Ângulo lança principal**	
SL	**K**	**[t]**		**de [°]**	**até [°]**
SL-56 até SL-70	K-52,5 até K-63	5	5	70	87

8.1.5 Colocação do cabo de elevação em serviço SDWV; SDWVB; SDWVBW TAB 154 00 072-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

- ▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- ▶ O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-35 / W-14	7	2 x 4	78	87
S-42 / W-14	7	2 x 4	76	87
S-49 / W-14	9	2 x 4	73	87
S-56 / W-14	13	2 x 4	69	87
S-63 / W-14	16	2 x 4	67	87
S-70 / W-14	16	2 x 8	64	87

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-49 / W-21	7	2 x 4	84	87
S-56 / W-21	7	2 x 4	82	87
S-63 / W-21	7	2 x 4	80	87
S-70 / W-21	9	2 x 4	78	87
S-77 / W-21	11	2 x 4	77	87
S-84 / W-21	13	2 x 4	75	87
S-91 / W-21	15	2 x 4	73	87

Em serviço com as combinações da lança S-35 / W-21 e S-42 / W-21 o moitão do gancho pode ser baixado de qualquer forma.

Decurso do cabo de elevação do cabeçal W através das polias do cabo na parte mais inferior do cavalete W-A- I e II.

8.1.6 Colocação do cabo de elevação em serviço S6D2W; S6D2WB TAB 154 00 101-00

AVISO

Perigo de sobrecarga nos componentes estruturais portadores de carga!

Quando a colocação do cabo de elevação mínima não é respeitada, podem ser sobrecarregados componentes estruturais que suportam a carga. Componentes podem partir e causar acidentes mortais!

▶ As colocações do cabo de elevação mínimas têm de ser respeitadas. São somente permitidas colocações do cabo iguais ou maiores!

Lança [m]		Colocação do cabo de elevação mínimo	
S	**W**	**Serviço individual**	**Serviço paralelo**
S-56	W-28	12	2 x 12
	W-35	10	2 x 10
	W-42	8	2 x 8
	W-49	7	2 x 7
	W-56	6	2 x 6
	W-63	5	2 x 5
	W-70	4	2 x 4
	W-77	4	2 x 4
	W-84	3	2 x 3
	W-91	3	2 x 3
	W-98	2	2 x 2
	W-105	2	2 x 2

Lança [m]		Colocação do cabo de elevação mínimo	
S	**W**	**Serviço indivi-dual**	**Serviço paralelo**
S-63	W-28	10	2 x 10
	W-35	9	2 x 9
	W-42	7	2 x 7
	W-49	6	2 x 6
	W-56	5	2 x 5
	W-63	4	2 x 4
	W-70	4	2 x 4
	W-77	3	2 x 3
	W-84	3	2 x 3
	W-91	3	2 x 3
	W-98	2	2 x 2
	W-105	2	2 x 2
S-70	W-28	9	2 x 9
	W-35	8	2 x 8
	W-42	7	2 x 7
	W-49	6	2 x 6
	W-56	5	2 x 5
	W-63	4	2 x 4
	W-70	4	2 x 4
	W-77	3	2 x 3
	W-84	3	2 x 3
	W-91	2	2 x 2
	W-98	2	2 x 2
	W-105	2	2 x 2

Lança [m]		Colocação do cabo de elevação mínimo	
S	**W**	**Serviço indivi-dual**	**Serviço paralelo**
S-77	W-35	7	2 x 7
	W-42	6	2 x 6
	W-49	5	2 x 5
	W-56	4	2 x 4
	W-63	4	2 x 4
	W-70	3	2 x 3
	W-77	3	2 x 3
	W-84	3	2 x 3
	W-91	2	2 x 2
	W-98	2	2 x 2
	W-105	2	2 x 2
S-84	W-42	5	2 x 5
	W-49	5	2 x 5
	W-56	4	2 x 4
	W-63	3	2 x 3
	W-70	3	2 x 3
	W-77	3	2 x 3
	W-84	2	2 x 2
	W-91	2	2 x 2
	W-98	2	2 x 2
	W-105	2	2 x 2
S-91	W-49	4	2 x 4
	W-56	4	2 x 4
	W-63	3	2 x 3
	W-70	3	2 x 3
	W-77	2	2 x 2
	W-84	2	2 x 2
	W-91	2	2 x 2
	W-98	2	2 x 2
	W-105	1	2 x 1

8.1.7 Colocação do cabo de elevação em serviço S6D2WV; S6D2WVB TAB 154 00 105-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se incontroladamente para trás. A grua pode tombar!

- As colocações do cabo de elevação mínimas têm de ser mantidas independentemente das zonas de ângulo da lança principal apresentadas na tabela em todas as posições angulares da lança.
- Os pesos do moitão do gancho mínimo apresentados na tabela têm de ser mantidas obrigatoriamente dependentemente do ângulo da lança principal.
- O moitão do gancho pode ser somente ser baixado abaixo da zona de ângulo determinado, isso significa para a posição mais plana por baixo desta zona.

Em serviço com as combinações da lança para (**1**) tem que agir na posição mais a pique na zona de ângulo da lança principal (**4**) o moitão do gancho com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal	
			de [°]	até [°]
S-56 / W-14	13	2 x 18	69	87
S-63 / W-14	16	2 x 15	67	87
S-70 / W-14	16	2 x 13	64	87

(1) Lança [m]	(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	(4) Ângulo lança principal de [°]	(4) Ângulo lança principal até [°]
S-56 / W-21	7	2 x 15	82	87
S-63 / W-21	7	2 x 13	80	87
S-70 / W-21	9	2 x 11	78	87
S-77 / W-21	11	2 x 9	77	87
S-84 / W-21	13	2 x 8	75	87
S-91 / W-21	15	2 x 7	73	87

Decurso do cabo de elevação do cabeçal W através das polias do cabo na parte mais inferior do cavalete W-A- I e II.

8.1.8 Colocação do cabo de elevação em serviço SL12D2F; SL12D2FB TAB 154 00 128-01

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimos descritas na tabela têm de ser obrigatoriamente cumpridas.

Em serviço com as combinações da lança para (**1**) o moitão do gancho tem de agir com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]		(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	
SL	**F**		**Serviço individual**	**Serviço paralelo**
SL-112 até SL-140	F-12 até F-24	7	6	2 x 5

8.1.9 Colocação do cabo de elevação em serviço SL9D2F; SL9D2FB TAB 154 00 189-00

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e pesos do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimos descritas na tabela têm de ser obrigatoriamente cumpridas.

Em serviço com as combinações da lança para (**1**) o moitão do gancho tem de agir com o peso mínimo (**2**) e com a colocação do cabo mínima (**3**).

(1) Lança [m]		(2) Peso mínimo do moitão do gancho [t]	(3) Colocação do cabo de elevação mínimo	
SL	**F**		**Serviço individual**	**Serviço paralelo**
SL-119 até SL-126	F-12	7	6	2 x 5
SL-119 até SL-136	F-18	7	6	2 x 5
SL-136	F-21	7	6	2 x 5

8.2 Colocações do cabo de elevação mínimas necessárias para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON

Se para o levantamento da carga tiver de ser utilizado no acessório fixo o cabrestante 2, porque de contrário os cabos do cabrestante 1 e cabrestante 2 se cruzariam, têm de ser utilizadas as colocações do cabo indicadas no Capítulo "Moitões do gancho e ganchos de carga" e não podem ser ultrapassadas. *Veja „7. Moitões de gancho e ganchos de carga“ na página 11.* Uma pequena colocação do cabo provoca uma pesagem da carga muito baixa do LMB e por consequência a grua será sobrecarregada!

PERIGO

Perigo de acidente!

Uma colocação do cabo muito pequena para levantamento das cargas no acessório fixo com o cabrestante 2 provoca uma pesagem da carga muito baixa da limitação de momento de carga. Como consequência a grua será sobrecarregada despercebidamente. A consequência disso podem ser acidentes graves!

- ▶ A colocação do cabo indicada no Capítulo "Moitão do gancho e ganchos de carga" não pode ser inferior ao valor indicado, quando para o levantamento da carga no acessório fixo tiver de ser utilizado o cabrestante 2!

8.3 Colocações do cabo de elevação mínimas necessárias em serviço paralelo

Com uma colocação do cabo de elevação mínima de 2 x 6 ramais do cabo será assegurado, que em serviço paralelo do cabrestante 1 e cabrestante 2 será evitada uma posição inclinada não permitida do moitão do gancho e o decurso paralelo do cabrestante 1 e cabrestante 2 está garantido.

AVISO

Perigo de sobrecarga nos componentes estruturais portadores de carga!

Se a colocação do cabo de elevação mínima não for respeitada, pode por razões da posição inclinada do moitão do gancho serem sobrecarregados os componentes portadores de carga. Componentes podem partir e causar acidentes mortais!

▶ Em serviço paralelo do cabrestante 1 e cabrestante 2 tem de estar no mínimo colocados 2 x 6 ramais do cabo!

9. Procedimento para determinar a colocação do cabo de elevação e moitão do gancho necessário

Antes do levantamento de uma carga tem de ser determinada a colocação do cabo de elevação e moitão do gancho para isso necessários. Seguidamente será apresentada progressivamente, como tem de ser determinada a colocação do cabo de elevação e o moitão do gancho em serviço individual (serviço de grua com 1 cabrestante do cabo de elevação) e serviço paralelo (serviço de grua com 2 cabrestantes do cabo de elevação).

9.1 Passo 1: Determinar a carga

As cargas indicadas nas tabelas de carga contêm os pesos seguintes:

- Peso da carga a ser levantada
- Peso dos meios de recepção de carga (moitões do gancho e ganchos de carga)
- Peso do meio de fixação

Antes de determinar a colocação do cabo de elevação tem de ser determinada a carga (Peso da carga + Peso do meio de recepção de carga + Peso do meio de fixação).

Averiguar os pesos do meio de recepção de carga no Capítulo "Moitão do gancho e ganchos de carga".

▶ Determinar o peso do moitão do gancho necessário para a carga a ser levantada.

▶ Determinar o peso dos meios de fixação.

Resultado:

- Peso da carga

9.2 Passo 2: Determinar a colocação do cabo de elevação mínima dependente da tracção do cabo máxima permitida ($n_{min\ [Tabela\ de\ colocação]}$)

As colocações do cabo de elevação dependente da máxima tracção do cabo do cabrestante do cabo de elevação será determinado da "Tabela de colocação" no Capítulo II deste manual.

▶ Determinar a colocação do cabo de elevação $n_{min\ [Tabela\ de\ colocação]}$ para a carga em serviço de grua com 1 cabrestante do cabo de elevação em serviço individual.

-ou-

Determinar a colocação do cabo de elevação $n_{min\ [Tabela\ de\ colocação]}$ da carga para o serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo.

Resultado:

- Colocação do cabo necessária $n_{min\ [Tabela\ de\ colocação]}$

Indicação

Em serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo será determinada a colocação necessária em 3 passos.

▶ A carga será dividida por 2, já que a carga será acolhida em partes iguais pelo cabrestante do cabo de elevação 1 e cabrestante do cabo de elevação 2.

▶ A colocação do cabo necessária para 1 cabrestante do cabo de elevação será determinado.

▶ A colocação do cabo determinada para 1 cabrestante do cabo de elevação será aplicada nos dois cabrestantes do cabo de elevação.

9.3 Passo 3: Determinar a colocação do cabo de elevação mínima e os pesos dos moitões do gancho mínimo por razões de estática ($n_{min\ [estática]}$), ($G_{min\ [estática]}$)

Determinar as colocações do cabo de elevação e os pesos dos moitões do gancho necessários por razões de estática, os quais são necessários em determinados modos de serviço, em Capítulo "Colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo, que por razões de estática são necessários em determinados modos de serviço".

▶ Determinar a colocação do cabo de elevação mínima $n_{min\ [estática]}$ e peso dos moitões do gancho mínimo $G_{min\ [estática]}$, os quais por razões de estática são necessários em determinados modos de serviço.

Resultado:
- Colocação do cabo necessária $n_{min\ [estática]}$
- Moitão do gancho necessário $G_{min\ [estática]}$

9.4 Passo 4: Determinar a colocação do cabo de elevação mínima para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON ($n_{min\ [pesagem\ da\ carga]}$)

Determinar as colocações do cabo de elevação necessárias para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON no Capítulo "Colocações do cabo de elevação mínimas necessárias para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON ".

▶ Colocação do cabo de elevação mínima $n_{min\ [pesagem\ da\ carga]}$, a qual é necessária para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON.

Resultado:
- Colocação do cabo necessária $n_{min\ [pesagem\ da\ carga]}$

9.5 Passo 5: Determinar a colocação do cabo de elevação mínima para um comando do serviço paralelo operacional ($n_{min\ [serviço\ paralelo]}$)

Determinar as colocações do cabo de elevação necessárias para um comando do serviço paralelo operacional, as quais são somente necessárias em serviço paralelo do cabrestante 1 e cabrestante 2, no Capítulo "Colocações do cabo de elevação mínimas necessárias em serviço paralelo".

▶ Determinar a colocação do cabo de elevação mínima $n_{min\ [serviço\ paralelo]}$, a qual é necessária para uma pesagem da carga segura do dispositivo de segurança contra sobrecarga LICCON.

Resultado:
- Colocação do cabo necessária $n_{min\ [serviço\ paralelo]}$

9.6 Passo 6: Determinar a colocação do cabo de elevação mínima (n_{min}) e o peso dos moitões do gancho mínimo (G_{min}), que tem de ser utilizada para levantamento da carga

Depois de determinar as colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo para os critérios de limitação ($n_{min\ [Tabela\ de\ colocação]}$, $n_{min\ [estática]}$, $G_{min\ [estática]}$, $n_{min\ [pesagem\ da\ carga]}$, $n_{min\ [serviço\ paralelo]}$) tem de ser determinada a maior colocação do cabo de elevação mínima e peso do moitão do gancho.

▶ Determinar a maior colocação do cabo de elevação mínima n_{min} das colocações do cabo de elevação mínimas determinadas ($n_{min\ [Tabela\ de\ colocação]}$, $n_{min\ [estática]}$, $n_{min\ [pesagem\ da\ carga]}$, $n_{min\ [serviço\ paralelo]}$) e peso dos moitões do gancho mínimo G_{min} para ($G_{min\ [estática]}$).

Resultado:
- Colocações do cabo de elevação mínimas necessárias n_{min} e peso dos moitões do gancho mínimo necessário G_{min}. Estes têm de ser utilizados para levantamento da carga.

10. Reduções da carga

10.1 Reduções da carga com polia de ramal simples montada

10.1.1 As cargas indicadas nas tabelas de cargas para o serviço de grua na lança da grelha principal ou na ponta da grelha não consideram a polia de ramal simples montada.

10.1.2 Nos modos de serviço sem polia de ramal simples em que esta continua no entanto montada no cabeçal da lança, reduz-se a carga possível em função do:

- peso da polia de ramal simples
- peso do cabo de elevação montado na polia de ramal simples
- peso do meio de recepção de carga utilizado na polia de ramal simples

10.1.3 Para a polia na extremidade do mastro com a carga máxima de 60 t não existe nenhumas tabelas de carga em separado. São válidas as tabelas de carga dos tipos de serviço da lança principal e lança suplementar, todavia reduzem-se as cargas do peso da polia na extremidade do mastro e do peso dos meios de recepção de carga e meios de encosto utilizados.

10.2 Redução da capacidade de carga com barras de ancoragem pousadas

10.2.1 As cargas indicadas nas tabelas de carga valem sem barras de ancoragem pousadas.

10.2.2 Quando estão as barras de ancoragem pousadas em cima reduzem-se os valores de carga possíveis.

A redução da capacidade de carga está dependente do peso e centro de gravidade das barras de ancoragem e do ângulo da lança. Quanto maior for o peso das barras de ancoragem, mais próximo se encontra o centro de gravidade das barras de ancoragem no cabeçal de polias e quanto mais inclinada estiver a lança principal para a horizontal, maior é a redução da capacidade de carga.

10.2.3 A redução da capacidade de carga calcula-se simplificada do comprimento da lança e do peso por metro das barras de ancoragem:

Redução da capacidade de carga = 0,5 x comprimento da lança x peso por metro das barras de ancoragem

10.2.4 Exemplo para o serviço da lança principal com barras de ancoragem pousadas do cavalete WA II:

Comprimento da lança:	91 m
Peso por metro das barras de ancoragem:	0,047 t/m
Redução da capacidade de carga (ca.): 0,5 x 91 m x 0,047 t/m	2,1 t

11. Sistema de lanças

11.1 Breve descrição dos grupos funcionais do sistema de lanças

11.1.1 Lança principal

SLI = Lança da grelha principal, versão mista

SL = Lança da grelha principal, versão mista

SL2 = Lança da grelha principal, versão mista, Variante 2

SL3 = Lança da grelha principal, versão mista, Variante 3

SL4 = Lança da grelha principal, versão mista, Variante 4

SL5 = Lança da grelha principal, versão mista, Variante 5

SL6 = Lança da grelha principal, versão mista, Variante 6

SL7 = Lança da grelha principal, versão mista, Variante 7

SL8 = Lança da grelha principal, versão mista, Variante 8

SL9 = Lança da grelha principal, versão mista, Variante 9

SL11= Lança da grelha principal, versão mista, Variante 11

SL12= Lança da grelha principal, versão mista, Variante 12

SL13= Lança da grelha principal, versão mista, Variante 13

SL14= Lança da grelha principal, versão mista, Variante 14

SL15= Lança da grelha principal, versão mista, Variante 15

S = Lança da grelha principal, versão pesada

S2 = Lança da grelha principal, versão pesada, Variante 2

S3 = Lança da grelha principal, versão pesada, Variante 3

S6 = Lança da grelha principal, versão pesada, Variante 6

11.1.2 Dispositivos auxiliares fixos

F = Ponta da grelha fixa

H = Lança auxiliar (polia de ramal simples)

HS = Ponta auxiliar

11.1.3 Dispositivos auxiliares móveis

K1 = Lança abatível, Variante 1

W = Ponta da grelha basculável, versão pesada

WV = Ponta da grelha basculável, versão pesada, ajustável

11.1.4 Lança Derrick

D = Lança Derrick (Contra-lança), Variante 1 (31,5 m)

D2 = Lança Derrick (Contra-lança), Variante 2 (42,0 m)

11.1.5 Lastro Derrick

B = Lastro em suspensão

B3L = sem ancoragem do Derrick para o pontão

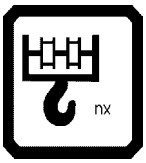
B3F = com ancoragem do Derrick para o pontão

BW = Carro do lastro

11.2 Combinação dos grupos funcionais em modos de serviço

Os grupos funcionais do sistema de lanças podem ser combinados uns com os outros em modos de serviço segundo determinadas regras. *Veja „12. Explicação dos símbolos“ na página 53.*

12. Explicação dos símbolos

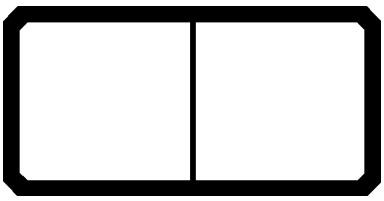


Colocação do cabo de elevação

Este símbolo aparece na tabela "Colocação do cabo de elevação" (1ª. Tabela no Capítulo II). Indicação do número de ramais de cabos de elevação para alcançar uma determinada capacidade de carga.

Carga em toneladas

Este símbolo aparece na tabela "Colocação do cabo de elevação" (1ª. Tabela no Capítulo II). Indicação da carga máxima autorizada dependente da colocação do cabo de elevação.



Símbolo dos modos de serviço

O símbolo dos modos de serviço está montado em duas partes.

Informações que serão representadas na metade do símbolo da esquerda:

- Ângulo da lança principal
- Tipo de lança principal
- Comprimento da lança principal
- Peso do moitão do gancho
- Restrições
- Velocidade do vento máxima admissível
- Inclinação do terreno

Informações que serão representadas na metade do símbolo da direita:

- Tipo de lança suplementar
- Ângulo da lança suplementar
- Comprimento da lança suplementar
- Peso do moitão do gancho

Indicação

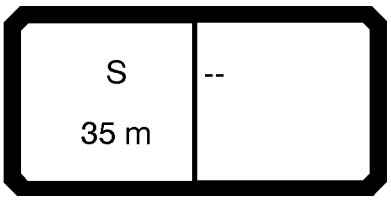
▶ As informações, as quais serão apresentadas na metade do símbolo da esquerda e da direita do símbolo dos modos de serviço da correspondente tabela da capacidade de carga, têm de corresponder com exactidão com os ajustes seleccionados no dispositivo de segurança contra sobrecarga LICCON!

▶ Também em modos de serviço sem acessório a metade do símbolo da direita do símbolo dos modos de serviço tem de ser ajustado de acordo com a representação na tabela da capacidade de carga no dispositivo de segurança contra sobrecarga LICCON, para que o modo de serviço possa ser seleccionado.

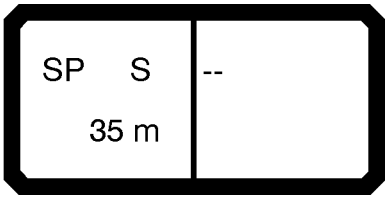
Serviço de grua sem acessório

Em serviço de grua sem acessório está ocupado somente a metade do símbolo da esquerda.

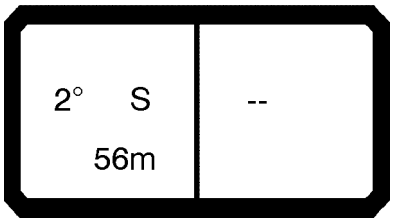
Exemplos:



Lado esquerdo = Modo de serviço da lança principal
- Tipo de lança principal por ex.: S = Lança principal em treliça
- Comprimento da lança principal por ex.: 35 m

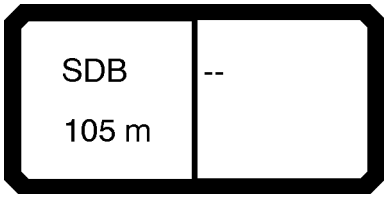


Lado esquerdo = Modo de serviço da lança principal
- Restrição por ex.: SP = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Tipo de lança principal por ex.: S = Lança principal em treliça
- Comprimento da lança principal por ex.: 35 m



Lado esquerdo = Modo de serviço da lança principal
- Inclinação do terreno por ex.: 2° = A inclinação do terreno máx. permitida é de 2°.
- Tipo de lança principal por ex.: S = Lança principal em treliça
- Comprimento da lança principal por ex.: 56 m

Lado esquerdo = Modo de serviço da lança principal
- Tipo de lança principal por ex.: SD = Lança principal em treliça e lança Derrick
- Comprimento da lança principal por ex.: 42 m



Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SDB = Lança principal em treliça, lança Derrick e lastro em suspensão.
- Comprimento da lança principal — por ex.: 105 m

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: S2DB = Lança principal em treliça, Variante 2 com cabeçal 750 t, lança Derrick e lastro em suspensão
- Comprimento da lança principal — por ex.: 28 m

Serviço de grua com acessório

Em serviço de grua com acessório as duas metades do símbolo estão ocupadas.

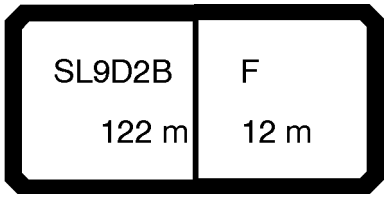
Exemplos:

Lado esquerdo = Modo de serviço da lança principal
- Tipo de lança principal por ex.: SL8 = Lança principal em treliça, Variante 8
- Restrição por ex.: 12) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Comprimento da lança principal por ex.: 77 m

Lado direito = Modo de serviço de lança suplementar
- Tipo de lança suplementar por ex.: HS = Ponta auxiliar
- Comprimento da lança suplementar por ex.: 6,0 m

Lado esquerdo = Modo de serviço da lança principal
- Restrição por ex.: 7) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Tipo de lança principal por ex.: SL = Lança principal em treliça
- Comprimento da lança principal por ex.: 56 m

Lado direito = Modo de serviço de lança suplementar
- Tipo de lança suplementar por ex.: K1 = Lança abatível, Variante 1
- Comprimento da lança suplementar por ex.: lança abatível 52,5 m
  por ex.: Ponta auxiliar 6,0 m



Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SL9D2B = Lança principal em treliça, Variante 9 com lança Derrick, Variante 2 e lastro em suspensão
- Comprimento da lança principal — por ex.: 122 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: F = Ponta em treliça fixa
- Comprimento da lança suplementar — por ex.: 12 m

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SL12D2 = Lança principal em treliça, Variante 12 com lança Derrick, Variante 2
- Comprimento da lança principal — por ex.: 140 m

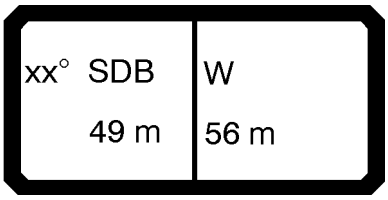
Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: F = Ponta em treliça fixa
- Ângulo da lança suplementar — por ex.: 20,5° = Ponta em treliça fixa montada num ângulo de 20,5° para lança principal em treliça.
- Comprimento da lança suplementar — por ex.: 15 m

PERIGO

Perigo de acidente!

▶ A lança principal e a ponta em treliça basculável não podem ser basculadas simultaneamente mas sim unicamente uma atrás da outra!

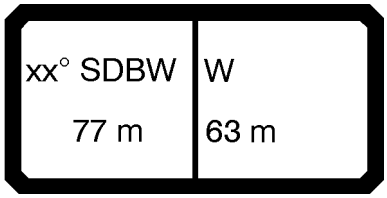


Lado esquerdo = Modo de serviço da lança principal

- Ângulo da lança principal — por ex.: xx° = Lança principal em treliça encontra-se em ângulo fixo, na qual se encontra os dados em graus para a horizontal na linha xx da respectiva tabela de cargas.
- Tipo de lança principal — por ex.: SDB = Lança principal em treliça, lança Derrick e lastro em suspensão.
- Comprimento da lança principal — por ex.: 49 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: W = Ponta em treliça basculável, construção pesada
- Comprimento da lança suplementar — por ex.: 56 m



Lado esquerdo = Modo de serviço da lança principal

- Ângulo da lança principal — por ex.: xx° = Lança principal em treliça encontra-se em ângulo fixo, na qual se encontra os dados em graus para a horizontal na linha xx da respectiva tabela de cargas.
- Tipo de lança principal — por ex.: SDBW = Serviço de grua com lança principal em treliça, lança Derrick e carro do lastro
- Comprimento da lança principal — por ex.: 77 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: W = Ponta em treliça basculável, construção pesada
- Comprimento da lança suplementar — por ex.: 63 m

xx° S6D2	W
21) 91m	105m

Lado esquerdo = Modo de serviço da lança principal

- Ângulo da lança principal — por ex.: xx° = Lança principal em treliça encontra-se em ângulo fixo, na qual se encontra os dados em graus para a horizontal na linha xx da respectiva tabela de cargas.
- Tipo de lança principal — por ex.: S6D2 = Serviço de grua com lança principal, Variante 6 em treliça e lança Derrick, Variante 2
- Restrição — por ex.: 21) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Comprimento da lança principal — por ex.: 91 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: W = Ponta em treliça basculável, construção pesada
- Comprimento da lança suplementar — por ex.: 105 m

SD	WV xx°
35 m	21 m

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SD = Serviço de grua com lança principal em treliça e lança Derrick
- Comprimento da lança principal — por ex.: 35 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: WV = Ponta em treliça basculável, pesada, construção ajustável
- Ângulo da lança suplementar — por ex.: xx° = Lança suplementar em treliça encontra-se em ângulo fixo, na qual se encontra os dados em graus para a horizontal na linha xx da respectiva tabela de cargas, para a lança suplementar em treliça.
- Comprimento da lança suplementar — por ex.: 21 m = Comprimento da ponta em treliça basculável

Serviço de grua com lança principal com acessório montado

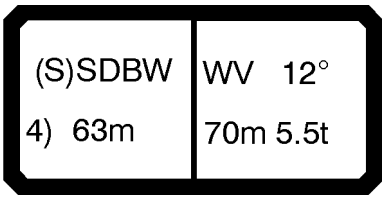
Em serviço de grua na lança principal com acessório montado estão as duas metades do símbolo ocupados.

PERIGO

Perigo de tombamento ou perigo de sobrecarga dos componentes que suportam a carga!

▶ Quando um tipo serviço com uma lança principal for indicado entre parêntesis, por exemplo (S)SDBW, então a carga pode ser levantada com a lança suplementar montada na lança principal!

Exemplos:



Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: (S)SDBW = Serviço de grua com lança principal em treliça, construção pesada, lança Derrick e carro do lastro. Carga na lança principal.
- Restrição — por ex.: 4) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Comprimento da lança principal — por ex.: 63 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: WV 12° = Ponta em treliça basculável, pesada, construção ajustável, ajustada num ângulo fixo de 12° para a lança principal em treliça.
- Comprimento da lança suplementar — por ex.: 70 m = Comprimento da ponta em treliça basculável
- Peso do moitão do gancho — por ex.: 5,5 t = Peso do moitão do gancho, que deve estar na lança suplementar em treliça.

Modos de serviço com vários moitões de gancho

Em alguns modos de serviço o peso do moitão do gancho do moitão do gancho será indicado, onde não está nenhuma carga pendurada.

AVISO

Perigo de acidente!

Quando no símbolo do modo de serviço o moitão do gancho com o seu peso não está montado na correspondente lança, não se pode trabalhar com a grua. A consequência disso podem ser acidentes graves.

▶ O moitão do gancho indicado com o seu peso no símbolo dos modos de serviço tem de estar montado na correspondente lança!

Serão diferenciados 2 casos:

- Peso do moitão do gancho na lança principal em serviço de grua na lança suplementar
- Peso do moitão do gancho na lança suplementar em serviço de grua na lança principal

Peso do moitão do gancho na lança principal em serviço de grua na lança suplementar

PERIGO

Perigo de acidente!

▶ A lança principal e a ponta em treliça basculável não podem ser basculadas simultaneamente mas sim unicamente uma atrás da outra!

Exemplos:

xx° SDBW	W
5) 16t63m	35 m

Lado esquerdo = Modo de serviço da lança principal

- Ângulo da lança principal — por ex.: xx° = Lança principal em treliça encontra-se em ângulo fixo, na qual se encontra os dados em graus para a horizontal na linha xx da respectiva tabela de cargas.
- Tipo de lança principal — por ex.: SDBW = Serviço de grua com lança principal em treliça, construção pesada, lança Derrick e carro do lastro.
- Restrição — por ex.: 5) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Peso do moitão do gancho — por ex.: 16 t = Peso do moitão do gancho, que deve estar na lança principal em treliça.
- Comprimento da lança principal — por ex.: 63 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: W = Ponta em treliça basculável, construção pesada
- Comprimento da lança suplementar — por ex.: 35 m

Peso do moitão do gancho na lança suplementar em serviço de grua na lança principal

PERIGO

Perigo de tombamento ou perigo de sobrecarga dos componentes que suportam a carga!

▶ Quando um tipo serviço com uma lança principal for indicado entre parêntesis, por exemplo (S)SDBW, então a carga pode ser levantada com a lança suplementar montada na lança principal!

Exemplos:

(S)SDBW	WV 12°
4) 63m	70m 5.5t

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: (S)SDBW = Serviço de grua com lança principal em treliça, construção pesada, lança Derrick e carro do lastro. Carga na lança principal.
- Restrição — por ex.: 4) = *Veja „Descrição de limitações nos modos de serviço“ na página 68.*
- Comprimento da lança principal — por ex.: 63 m

Lado direito = Modo de serviço de lança suplementar

- Tipo de lança suplementar — por ex.: WV 12° = Ponta em treliça basculável, pesada, construção ajustável, ajustada num ângulo fixo de 12° para a lança principal em treliça.
- Comprimento da lança suplementar — por ex.: 70 m = Comprimento da ponta em treliça basculável
- Peso do moitão do gancho — por ex.: 5,5 t = Peso do moitão do gancho, que deve estar na lança suplementar em treliça.

Modos de serviço especiais

Serviço de grua sobre pontão

Para o serviço de grua sobre pontão existem modos de serviço especiais. Em geral para esses modos de serviço têm que ser observados os seguintes pontos.

AVISO

Perigo de acidente!

Montagem e manejo errado em serviço de grua sobre pontão podem causar graves acidentes!

- As instruções e condições do explorador da grua para o serviço de grua sobre pontão, assim como as indicações suplementares no manual de instruções têm de ser observadas e cumpridas.
- A ancoragem da Derrick para o pontão tem de ser montada de acordo com as indicações do explorador da grua.

AVISO

Perigo de acidente!

Quando a grua é operada com ancoragem da Derrick para o pontão, a zona de rotação de +/- 1° para o lado não podem ser ultrapassadas. A consequência disso podem ser acidentes graves.

- Em serviço de grua com ancoragem da Derrick para o pontão a zona de rotação está limitada para +/- 1°.

SLDB3L / SLDB3F - serviço sobre o pontão

Adicionalmente para os pontos gerais do serviço de grua sobre pontão têm que em SLDB3L / SLDB3F - ser observadas as seguintes indicações.

AVISO

Perigo de queda!

Nos modos de serviço SLDB3L- e SLDB3F- cada um dos 4 apoios contra uma força de tracção de 25 t tem que ser travados. Isto é necessário, para que os apoios não se possam levantar do subsolo. Se isto não for observado, a grua pode tombar!

▶ Em responsabilidade do explorador da grua cada um dos 4 apoios tem ser bloqueado para uma força de tracção de 25 t contra o levantamento!

PERIGO

Perigo de queda!

Quando a zona de ângulo da lança principal e peso do moitão do gancho mínimo permitidos não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás!

▶ O peso dos moitões do gancho mínimo tem de ser de 7 t!

Se o moitão do gancho na lança principal não está montado ou o moitão do gancho estiver baixado:

▶ Máxima permitida no ângulo da lança principal de 75° não exceder!

Se a grua está "fora de serviço":

▶ Máxima permitida no ângulo da lança principal de 55° não exceder!

AVISO

Perigo de acidente!

Montagem e manejo errado em serviço de grua sobre pontão podem causar graves acidentes!

▶ Contrapeso sobre extensão das plataformas giratórias montar!

▶ Máxima força de ancoragem de 400 t na Lança Derrick não exceder!

Exemplos:

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SLDB3L = lança principal em treliça, Lança Derrick sem ancoragem da Derrick para o pontão.
- Máxima permitida Velocidade do vento — por ex.: 14,3 m/s
- Comprimento da lança principal — por ex.: 56 m

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SLDB3F = Lança principal em treliça, lança Derrick com ancoragem da Derrick para o pontão.
- Máxima permitida Velocidade do vento — por ex.: 9,0 m/s
- Comprimento da lança principal — por ex.: 56 m

SDB3L / SDB3F - Serviço sobre pontão

AVISO

Perigo de queda!

Se a grua auxiliar na extensão das plataformas giratórias não estiver montada, a grua pode tombar.

▶ Grua auxiliar na extensão das plataformas giratórias montar!

Exemplos:

SDB3L 63m	--

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SDB3L = Lança principal em treliça, lança Derrick sem ancoragem da Derrick para o pontão.
- Comprimento da lança principal — por ex.: 63 m

SDB3F 63m	--

Lado esquerdo = Modo de serviço da lança principal

- Tipo de lança principal — por ex.: SDB3F = Lança principal em treliça, lança Derrick com ancoragem da Derrick para o pontão.
- Comprimento da lança principal — por ex.: 63 m

Descrição de limitações nos modos de serviço

Em alguns modos de serviço aparecem adicionalmente sinais, cifras e letras no símbolo de modos de serviço.

Características: 1)

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

▶ O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas.

SDB	WV xx°
35 m	14m 1)

Em modos de serviço assinalados com 1) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „TAB 128 00 056-00“ na página 31.

Características: 2)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

2) SDB	WV xx°
63 m	21m 1)

Em modos de serviço assinalados com 2) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-49	2 x 21	582,6
S-56	2 x 19	534,6
S-63	2 x 17	485,4
S-70	2 x 15	434,4
S-77	2 x 13	382,0

Características: 3)

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

▶ O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas.

SDBW	WV 15°
84 m	14m 3)

Em modos de serviço assinalados com 3) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „8.1.1 Colocação do cabo de elevação em serviço SDWVBW_15°“ na página 30.

Características: 4)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

(S)SDBW	WV 12°
4) 63m	35m 5.5t

Em modos de serviço assinalados com 4) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-63	2 x 17	485,4

Características: 5)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

xx° SDBW	W
5) 16t70m	35 m

Nos modos de serviço assinalados com 5) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-63 / D-31,5 / W-35	1 x 10	150,2
S-63 / D-31,5 / W-42	1 x 9	136,2
S-63 / D-31,5 / W-49	1 x 9	136,2
S-63 / D-31,5 / W-56	1 x 8	122,0
S-70 / D-31,5 / W-35	1 x 9	136,2
S-70 / D-31,5 / W-42	1 x 9	136,2
S-70 / D-31,5 / W-49	1 x 8	122,0

Características: 6)

PERIGO

Perigo de acidente!

- O modo de serviço de montagem só deve ser usado para o levantamento. As instruções de montagem no manual de funcionamento devem ser respeitadas!
- A força de MST 1 está limitada a 200 t.
- Antes da colocação ou retirada do lastro do conjunto giratório para lastro nominal da tabela de cargas deve-se colocar o sistema de lanças na posição de serviço mais a pique possível.
- O lastro necessário para a montagem ou desmontagem estã indicado na respectiva tabela de levantamentos.
- Este lastro tem de estar sempre disponível rapidamente e ficar nas proximidades da grua.

SL7DB	HS
6) xxm	6.0 m

Modos de serviço assinalados com 6) servem exclusivamente para levantar a grua com a lança da grelha principal SL7, lança Derrick, lastro em suspenção e ponta auxiliar.

Características: 7)

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

- O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas.

7) SL	K1
56 m	52.5+6m

Em modos de serviço assinalados com 7) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „TAB 128 00 169-00“ na página 33.

Características: 8)

PERIGO

Perigo de queda!

▶ O levantamento e deposito da grua tem de ser efectuado como descrito nas instruções de funcionamento com as tabelas de levantamento e deposito.

8)	S 42m	--

Nos modos de serviço os quais estão marcados com 8), o levantamento e depósito da grua tem de ocorrer dependentemente do lastro da plataforma giratória utilizada através da base de apoio em forma de trapézio para trás e o moitão do gancho ser reconduzido!

Características: 9)

PERIGO

Perigo de queda!

▶ O levantamento e deposito da grua tem de ser efectuado como descrito nas instruções de funcionamento com as tabelas de levantamento e deposito.

9)	SD 91m	--

Em modos de serviço assinalados com 9) é preciso usar para o levantamento e deposito da grua o lastro Derrick necessário das tabelas de levantamento.

Características: 10)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

Em modos de serviço assinalados com 10) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

SDB 10) 49m	--

Serviço SDB

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-49	2 x 21	582,6
S-56	2 x 18	510,2
S-63	2 x 16	460,2
S-70	2 x 14	408,4
S-77	2 x 13	382,0

SD2B 10) 49m	--

Serviço SD2B

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-56	2 x 19	534,6
S-63	2 x 17	485,4
S-70	2 x 15	434,4
S-77	2 x 13	382,0

Características: 11)

PERIGO

Perigo de queda!

▶ O levantamento e deposito da grua tem de ser efectuado como descrito nas instruções de funcionamento com as tabelas de levantamento e deposito.

SL 11) 42m	--

Nos modos de serviço os quais estão marcados com 11), o levantamento e depósito da grua tem de ocorrer dependentemente do lastro da plataforma giratória utilizada através da base de apoio em forma de trapézio para trás e o moitão do gancho ser reconduzido!

Características: 12)

PERIGO

Perigo de queda!

▶ O levantamento e deposito da grua tem de ser efectuado como descrito nas instruções de funcionamento com as tabelas de levantamento e deposito.

SL8 12) 77m	HS 6.0 m

Nos modos de serviço os quais estão marcados com 12), o levantamento e depósito da grua tem de ocorrer dependentemente do lastro da plataforma giratória utilizada através da base de apoio em forma de trapézio para trás e o moitão do gancho ser reconduzido!

Características: 13)

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

- O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas.

SP	SL	K1
13)	56m	52.5+6m

Em modos de serviço assinalados com 13) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „TAB 154 00 034-00“ na página 34.

Características: 14)

PERIGO

Perigo de acidente!

Quando a zona do ângulo da lança principal máximo, o peso dos moitões do gancho mínimo e a colocação do cabo de elevação mínimo autorizados não forem mantidos, a lança pode-se movimentar descontroladamente para trás, respectivamente a grua pode ser sobrecarregada sem se notar!

- O moitão do gancho não pode ser baixado num ângulo da lança principal maior que 65°!
- O peso dos moitões do gancho mínimo tem de ser de 11 t!
- A colocação do cabo de elevação mínimo tem de ser de 2 x 11 ramais do cabo!

14)SD2BW	WV	xx°
56 m	14m	1)

Em modos de serviço, os quais estão marcados com 14), o moitão do gancho não pode ser baixado para as zonas do ângulo da lança principal a pique (**> 65°**)!
O peso mínimo do moitão do gancho tem de ser de 11 t!
A colocação mínima dos cabos de elevação tem de ser de 2 x 11 ramais de cabos!

Características: 15)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

(S)SDBW	WV 12°
15) 70m	49m 5.5t

Em modos de serviço assinalados com 15) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-63 / D-31,5 / W-35	2 x 17	485,4
S-63 / D-31,5 / W-42	2 x 17	485,4
S-63 / D-31,5 / W-49	2 x 17	485,4

Características: 16)

PERIGO

Perigo de acidente!

- O modo de serviço de montagem só deve ser usado para o levantamento. As instruções de montagem no manual de funcionamento devem ser respeitadas!
- A força de MST 1 está limitada a 200 t.
- Antes da colocação ou retirada do lastro do conjunto giratório para lastro nominal da tabela de cargas deve-se colocar o sistema de lanças na posição de serviço mais a pique possível.
- O lastro necessário para a montagem ou desmontagem está indicado na respectiva tabela de levantamentos.
- Este lastro tem de estar sempre disponível rapidamente e ficar nas proximidades da grua.

SL7DB	HS
16) xxm	6.0m

Modos de serviço assinalados com 16) servem exclusivamente para levantar a grua com a lança da grelha principal SL7, lança Derrick, lastro em suspenção e ponta auxiliar.

Características: 17)

PERIGO

Perigo de acidente!

- O modo de serviço de montagem só deve ser usado para o levantamento. As instruções de montagem no manual de funcionamento devem ser respeitadas!
- A força de MST 1 está limitada a 200 t.
- Antes da colocação ou retirada do lastro do conjunto giratório para lastro nominal da tabela de cargas deve-se colocar o sistema de lanças na posição de serviço mais a pique possível.
- O lastro necessário para a montagem ou desmontagem está indicado na respectiva tabela de levantamentos.
- Este lastro tem de estar sempre disponível rapidamente e ficar nas proximidades da grua.

SL8DB	HS
17) xxm	6.0m

Modos de serviço assinalados com 17) servem exclusivamente para levantar a grua com a lança da grelha principal SL8, lança Derrick, lastro em suspenção e ponta auxiliar.

Características: 18)

PERIGO

Perigo de acidente!

- O modo de serviço de montagem só deve ser usado para o levantamento. As instruções de montagem no manual de funcionamento devem ser respeitadas!
- A força de MST 1 está limitada a 200 t.
- Antes da colocação ou retirada do lastro do conjunto giratório para lastro nominal da tabela de cargas deve-se colocar o sistema de lanças na posição de serviço mais a pique possível.
- O lastro necessário para a montagem ou desmontagem está indicado na respectiva tabela de levantamentos.
- Este lastro tem de estar sempre disponível rapidamente e ficar nas proximidades da grua.

SL8DB	HS
18) xxm	6.0m

Modos de serviço assinalados com 18) servem exclusivamente para levantar a grua com a lança da grelha principal SL8, lança Derrick, lastro em suspenção e ponta auxiliar.

Características: 19)

Observação

Em modos de serviço, os quais estão marcados com 19), tem de ser diferenciado entre vários tipos de lanças principais!

Dependente do tipo de lança principal têm de ser mantidas as diferentes colocações do cabo de elevação mínimas!

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

▶ O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas.

Serviço SD-; SDB

SDB	WV xx°
84m	21m 19)

Em modos de serviço assinalados com 19) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „TAB 154 00 072-00“ na página 35.

Serviço S6D2-; S6D2B

S6D2	WV xx°
56m	14m 19)

Em modos de serviço assinalados com 19) o moitão do gancho não pode ser baixado em zonas a pique do ângulo da lança principal. As zonas do ângulo, nas quais o moitão do gancho não pode ser baixado estão assinaladas no capítulo "Colocações minímas do cabo de elevação e pesos mínimos do moitão do gancho" neste livro de tabelas.
Veja „TAB 154 00 105-00“ na página 40.

Características: 20)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

S6D2B 20) 91m	--

Em modos de serviço assinalados com 20) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-56	2 x 19	534,6
S-59	2 x 18	510,2
S-63	2 x 17	485,4
S-66	2 x 16	460,2
S-70	2 x 15	434,4
S-73	2 x 14	408,4
S-77	2 x 13	382,0
S-80	2 x 13	382,0
S-84	2 x 12	355,2
S-87	2 x 12	355,2
S-91	2 x 11	328,0

Características: 21)

AVISO

Perigo de sobrecarga nos componentes estruturais portadores de carga!

Quando a colocação do cabo de elevação mínima não é respeitada, podem ser sobrecarregados componentes estruturais que suportam a carga. Componentes podem partir e causar acidentes mortais!

▶ As colocações do cabo de elevação mínimas têm de ser mantidas. São somente permitidas colocações do cabo iguais ou maiores!

xx° S6D2	W
21) 91m	105m

Em modos de serviço, os quais estão marcados com 21), têm de ser respeitadas as colocações do cabo de elevação mínimas necessárias .
Veja „TAB 154 00 101-00“ na página 37.

Características: 22)

AVISO

Perigo de sobrecarga nos componentes estruturais portadores de carga!

Quando a colocação do cabo de elevação mínima não é respeitada, podem ser sobrecarregados componentes estruturais que suportam a carga. Componentes podem partir e causar acidentes mortais!

▶ As colocações do cabo de elevação mínimas têm de ser mantidas. São somente permitidas colocações do cabo iguais ou maiores!

xx°S6D2B	W
22) 56m	35m

Em modos de serviço, os quais estão marcados com 22), têm de ser respeitadas as colocações do cabo de elevação mínimas necessárias.
Veja „TAB 154 00 101-00“ na página 37.

Características: 23)

SL 23) 56m	--

Em modos de serviço, os quais estão marcados com 23), tem de cada um dos 4 apoios ser bloqueado contra uma força de tracção de 25 t. Isto é necessário, para que os apoios não se possam levantar do subsolo.

AVISO

Perigo de queda!

Se cada um dos 4 apoios não estiver bloqueado contra uma força de tracção de 25 t, a grua pode tombar!

▶ Em responsabilidade do explorador da grua cada um dos 4 apoios tem ser bloqueado para uma força de tracção de 25 t contra o levantamento!

AVISO

Perigo de acidente!

Montagem e manejo errado em serviço de grua sobre pontão podem causar graves acidentes!

▶ As instruções e condiçes do explorador da grua para o serviço de grua sobre pontão têm de ser observadas e respeitadas!

O moitão do gancho não pode ser baixado em zonas de ângulo da lança principal a pique (**> 70°**)! Com "Grua fora de serviço" a posição angular da lança principal não pode ser maior que 70°. O peso mínimo do moitão do gancho tem de ser de 4 t!

PERIGO

Perigo de queda!

Quando a zona de ângulo da lança principal e peso do moitão do gancho mínimo permitidos não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás!

▶ O moitão do gancho não pode ser baixado num ângulo da lança principal maior que 70°!

▶ Com "Grua fora de serviço" a posição angular da lança principal não pode ser maior que 70°! Dar atenção também às indicações sobre as influências do vento com "Grua fora de serviço" no manual de serviço da grua!

▶ O peso dos moitões do gancho mínimo tem de ser de 4 t!

Características: 24)

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e o peso do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas nas tabelas têm de ser obrigatoriamente cumpridas.

SL9D2B	F
24) 133m	18m

Em modos de serviço os quais estão marcados com 24), têm de ser mantidas as colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo necessárias! *Veja „TAB 154 00 189-00“ na página 43.*

Características: 25)

AVISO

Perigo de queda!

Quando a colocação do cabo de elevação mínima e o peso do moitão do gancho mínimo não forem respeitadas, a lança pode-se em posição da lança a pique movimentar-se descontroladamente para trás. A grua pode tombar!

▶ As colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo apresentadas nas tabelas têm de ser obrigatoriamente cumpridas.

SL12D2	F 17.4°
25) 112m	18m

Em modos de serviço os quais estão marcados com 25), têm de ser mantidas as colocações do cabo de elevação mínimas e pesos do moitão do gancho mínimo necessárias! *Veja „TAB 154 00 128-01“ na página 42.*

Características: 26)

PERIGO

Perigo de queda!

▶ O levantamento e deposito da grua tem de ser efectuado como descrito nas instruções de funcionamento com as tabelas de levantamento e deposito.

26) SL 108.5m	--

Nos modos de operação que estão marcados com 26), o bloco do gancho deve ser monitorado ao levantar e deitar a lança!

Características: a)

Observação

▶ Se for utilizada uma colocação superior nos comprimentos de lança indicados, o moitão do gancho não poderá ser baixado até ao solo!

xx° SDBW	W
a)16t63m	49m

Nos modos de serviço assinalados com a) a carga terá de ser limitada nos comprimentos de lança enumerados de seguida para que o moitão do gancho atinja o solo. Na tabela estão indicadas as cargas máximas para a colocação, com as quais o moitão do gancho pode ser baixado até ao solo.

Lança	Cabo de elevação-Colocação	Carga máx. [t]
S-63 / D-31,5 / W-35	1 x 11	164,0
S-63 / D-31,5 / W-42	1 x 10	150,2
S-63 / D-31,5 / W-49	1 x 10	150,2
S-70 / D-31,5 / W-35	1 x 10	150,2
S-70 / D-31,5 / W-42	1 x 10	150,2
S-70 / D-31,5 / W-49	1 x 9	136,2
S-77 / D-31,5 / W-35	1 x 10	150,2
S-77 / D-31,5 / W-42	1 x 9	136,2
S-77 / D-31,5 / W-49	1 x 8	122,0

Características: *)

PERIGO

Perigo de acidente!

Quando a grua em tipos de serviço marcados com *) sem que seja necessário ser operada para isso com equipamento suplementar, os componentes estruturais com carga serão sobrecarregados!

▶ O equipamento suplementar o qual é necessário para o serviço da grua tem de ser montado na grua conforme a determinação do fabricante!

850tS2DB 35m*	--)

Tipos de serviço, os quais estão marcados com *), podem ser somente operados com um equipamento suplementar especial!

Características: spec.)

PERIGO

Perigo de queda!

Ao baixar o moitão do gancho na zona não permitida do ângulo da lança principal, a lança poderá movimentar-se descontroladamente para trás!

▶ O moitão do gancho só pode ser baixado fora da zona do ângulo indicada, ou seja nas zonas planas. *Veja „TAB 128 00 169-00“ na página 33.*

▶ A armação de levantamento têm de ser montadas na grua correspondentemente aos dados no Manual de instruções!

spec.)SL 56 m	K1 52.5+6m

Em tipos de serviço marcados com spec.) têm de ser mantidas as colocações do cabo de elevação mínimas e pesos dos moitões do gancho mínimos de 7). Adicionalmente tem de estar montada a armação de levantamento especiais na grua!

Características: SP

PERIGO

Perigo de queda!

▶ Nos modos de serviço marcados com "SP" (Posição especial) o contrapeso tem de estar montado sobre o prolongamento da plataforma giratória como está descrito no manual de serviço!

SP S 35 m	--

Em tipos de serviço os quais estão marcados com SP (Special Position), o contrapeso tem de estar montado sobre a extensão da plataforma giratória.

Características: n=60

Observação

▶ A carga máxima da grua é de 750 t.

S2DB 56m	-- n=60

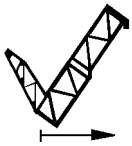
Indicação da colocação necessária para levantamento da carga máxima em serviço de grua com 2 cabrestantes do cabo de elevação em serviço paralelo.

Colocação do cabo necessário até para:
2 x 30 ramais do cabo = 60 ramais do cabo
2 x 390,4 t = 780,8 t (750 t)

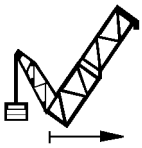
Símbolos dos raios de acção

O raio de acção (o raio de trabalho) é aquele que está medido no chão debaixo da carga compreendendo a distância horizontal que vai do eixo de rotação do chassis superior da grua até ao centro de gravidade da carga.

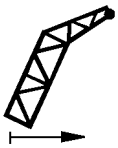
Símbolo de raio de acção para modos de serviço lança principal.



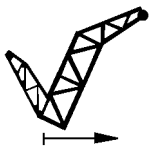
Símbolo de raio de acção para modos de serviço lança principal com lança Derrick.



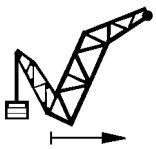
Símbolo de raio de acção para modos de serviço lança principal com lança Derrick e lastro Derrick.



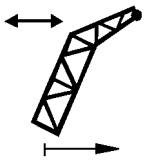
Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares fixos.



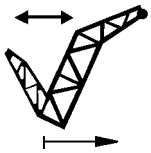
Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares fixos e lança Derrikk.



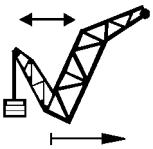
Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares fixos, lança Derrikk e lastro Derrick.



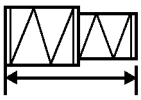
Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares móveis.



Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares móveis e lança Derrick.



Símbolo de raio de acção para modos de serviço lança suplementar com dispositivos auxiliares móveis, lança Derrick e lastro Derrick.



m > <t

Comprimento da lança de grelha principal

Debaixo deste símbolo aparecem ordenadas em colunas os diferentes comprimentos de lança. As letras junto a este símbolo indicam a unidade de medida em que está indicado cada um dos valores. Por ex.: “m > < t “ significa que todos os valores de comprimento se dão em metros [m] e que todos os valores de peso se dão em toneladas [t].

CODE〉0010〈

Curto código

Um curto código de 4 cifras descreve de maneira codificada o modo de serviço / o estado de montagem que se ajustou. O curto código pode ser introduzido directamente na segurança contra-sobrecargas LICCON para lançar a correspondente tabela de cargas.

* n *

Colocação do cabo de elevação

Aparece em linha nas tabelas de cargas debaixo dos valores de carga. Indica a quantidade de ramais para o cabo de elevação que se necessita para elevar, até à carga máxima correspondente à da coluna da tabela. Ultrapassa um valor de carga na coluna, o valor com colocação máxima permitida para levantar, asssim ficará para o número de colocações uma marcação (**!**), a qual indica que para o levantamento desta carga será necessário um equipamento especial.

xx

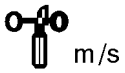
Ângulo da lança principall

Aparece somente em modos de serviço com a ponta abatível basculável como linha, abaixo da colocação do cabo de elevação. Nas colunas estão representados os ângulos da lança principal que têm de estar ajustados, ao lado um do outro, para que se possa elevar a carga da correspondente coluna da carga.

yy

Raio de lastro Derrick

Aparece somente em modos de serviço com lastro Derrick como linha, abaixo da colocação do cabo de elevação. Nas colunas estão representados os raios do lastro Derrick que têm de estar ajustados, ao lado um do outro, para que se possa elevar a carga da correspondente coluna da carga.

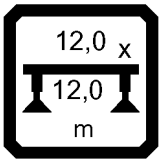


Velocidade máxima do vento permitida

Indica a velocidade do vento em [m/s] até onde o serviço de grua é permitido em função do comprimento da lança. Se a velocidade do vento é superior ao valor indicado, deve-se parar o serviço da grua ou eventualmente baixar a grua.

Contra-peso

Indica a dimensão do contra-peso em toneladas [t] que tem de se encontar no conjunto giratório para poder atingir os valores da tabela apresentada.



Serviço de grua "Grua apoiada"

Indicação da base de apoio (por ex. 12,0 m x 12,0 m = comprimento x largura). Os estabilizadores hidráulicos da grua devem-se estender e encavilhar à medida indicada neste símbolo em caso que se deva operar com a correspondente tabela de cargas.

Distância entre os lastros Derrick

A distância entre os lastros Derrick é a distância do centro de gravidade horizontal do lastro Derrick desde o eixo de rotação do chassi superior, medido no solo.

Com símbolos de distância entre os lastros Derrick com placas de identificação yy, o lastro Derrick tem que se encontrar na distância dos dados de comprimento que se encontra na linha yy na correspondente tabela de carga, para eixo de rotação do chassi superior.

Zona de rotação

Indica a zona de rotação do chassis superior para a correspondente tabela de cargas:

- 360° = possibilidade de rotação ilimitada

- +/-30° = Zona de rotação +/-30° para o lado

13. Velocidade de rotação permitida e inclinação lateral

13.1 Velocidade de rotação permitida máxima do chassi superior com carga nominal suspensa

AVISO

Perigo de acidente!

Quando for ultrapassada a máxima velocidade de rotação permitida a grua pode tombar e os componentes estruturais com carga podem ser sobrecarregados!

▶ A velocidade de rotação permitida não pode ser ultrapassada!

Modo de serviço	Velocidade de rotação permitida em percentagem da velocidade de rotação máxima	Velocidade de rotação permitida em $\left[\frac{1}{min}\right]$
Todos os modos de serviço	5	0,05

13.2 Inclinação lateral máxima permitida da grua durante o trabalho com as tabelas de carga

AVISO

Perigo de queda!

Quando a inclinação lateral máxima permitida da grua for ultrapassada a grua pode tombar!

▶ A inclinação lateral máxima permitida não deve ser ultrapassada!

Tipo de serviço	Inclinação lateral máxima permitida da grua durante o trabalho com as tabelas de carga
sobre rastos	0,3°
sobre estabilizadores	0,0°

14. Influências do vento em serviço de grua

14.1 Definição dos termos

Para melhor compreensão serão apresentados seguidamente os seguintes termos mais importantes sobre as influências do vento em serviço de grua.

Observação

- Familiarize-se com os termos. Para determinação e calculação da velocidade do vento permitida tem de conhecer os fatores de influência!
- Entre em contacto com a Liebherr-Werk Ehingen GmbH, quando necessitar de outras informações sobre as influências do vento em serviço de grua!

		Denominação	Definição
A_P	[m^2]	Superfície de projecção	A superfície decisiva dirigida para afluição na vertical para a calculação da superfície exposta ao vento.
c_W		Coeficiente da resistência ao vento	Valor para a resistência de corrente para um corpo abrangido pelo vento.
A_W	[m^2]	Superfície exposta ao vento	Superfície exposta ao vento = Superfície de projecção x Coeficiente da resistência ao vento $A_W = A_P \times c_W$
m_T	[t]	Carga	Valor das tabelas respectivo das tabelas da capacidade de carga.
m_H	[t]	Carga de elevação	O peso a ser levantado (massa) (inclusive meios de fixação, moitão do gancho e eventualmente parte do cabo de elevação, a qual ainda não foi considerada na calculação). A carga de elevação pode alcançar no máximo o valor da tabela das tabelas da capacidade de carga.
m_N	[t]	Carga útil	Peso (massa) do componente estrutural a ser levantado (sem meio de fixação e moitão do gancho).

		Denominação	Definição
v(z)	[m/s]	Velocidade de rajadas 3 segundos	Valor médio da velocidade do vento formado durante um espaço de tempo de 3 segundos numa altura z acima do solo.
v_{max}	[m/s]	Velocidade do vento máxima permitida	Velocidade de rajadas 3 segundos máxima permitida em altura de elevação máxima.
v_{max_TAB}	[m/s]	Velocidade do vento máxima permitida (tabela da capacidade de carga)	Velocidade de rajadas máxima permitida 3 segundos em altura de elevação máxima, a qual será indicada para os valores de carga nas tabelas da capacidade de carga.
p	[N/m^2]	Pressão dinâmica	Carga de pressão sobre um corpo por consequência da afluição do vento. Pressão dinâmica = Densidade/2 x (velocidade de rajadas 3 segundos)^2 $p = \rho/2 \times (v(z))^2$ (ρ = Densidade do ar = 1,25 kg/m^3)
F_W	[N]	Carga de vento	Influência de força sobre um corpo por consequência da afluição do vento. $F_W = A_W \times p$

14.2 Influência do vento sobre o dispositivo de segurança contra sobrecarga LICCON

Especialmente em modos de serviço com sistemas da lança comprido e posição da lança a pique o vento pode adicionalmente carregar ou aliviar o sistema de grua. Com isso a indicação da carga será falsificada. Eventualmente o dispositivo de segurança contra sobrecarga LICCON pode desligar muito cedo ou muito tarde.

14.2.1 Vento por trás

Com vento por trás o sistema da lança será adicionalmente carregado. A indicação da carga é demasiado alta. O desligamento do dispositivo de segurança contra sobrecarga LICCON ocorre já com uma carga de elevação, a qual é menor do que a carga máxima.

14.2.2 Vento pela frente

Com vento pela frente o sistema da lança será adicionalmente aliviado. A indicação da carga é demasiado baixa. O desligamento do dispositivo de segurança contra sobrecarga LICCON ocorre somente com uma carga de elevação, a qual é maior do que a carga máxima.

PERIGO

Perigo de tombamento e perigo de sobrecarga dos componentes que suportam a carga!

O vento pela frente não reduz a carga do gancho, cabo de elevação, polias do cabo de elevação e cabrestante de elevação. Com vento pela frente estes blocos funcionais podem através do levantamento de carga serem sobrecarregados até ao desligamento do dispositivo de segurança contra sobrecarga LICCON!
Quando o vento pela frente abranda, a grua completa pode ser sobrecarregada, quando anteriormente foi carregada até ao desligamento do dispositivo de segurança contra sobrecarga LICCON.

- ▶ O condutor da grua tem de conhecer o peso da carga de elevação e não pode ultrapassar a carga máxima!

14.2.3 Vento lateral

Com vento lateral o sistema da lança será carregado lateralmente. A indicação da carga é aproximadamente igual como em serviço de grua sem influências do vento.

PERIGO

Perigo de tombamento e perigo de sobrecarga dos componentes que suportam a carga!

Se em serviço de grua a velocidade do vento é maior do que a velocidade do vento máxima permitida, então a grua com vento lateral será sobrecarregada despercebidamente!

- ▶ Averiguar antes do serviço de grua as velocidades do vento máxima permitida e se necessário executar o cálculo da superfície da carga submetida ao vento!

14.3 Velocidade do vento permitida e cálculo da superfície da carga submetida ao vento

PERIGO

Perigo de tombamento e perigo de sobrecarga dos componentes que suportam a carga!

- O gruísta tem de se informar antes de iniciar o trabalho junto dos serviços meteorológicos responsáveis sobre as velocidades do vento esperadas para o tempo de aplicação. Se forem esperadas velocidades do vento proibidas, então é proibido levantar a carga de elevação!
- A velocidade de rajadas 3 segundos v(z) na altura de elevação máxima não pode ultrapassar a velocidade do vento máxima permitida (v_{max}) e a velocidade do vento máxima permitida segundo a tabela da capacidade de carga (v_{max_TAB}) em nenhum momento!

Observação

- A velocidade do vento máxima permitida (v_{max}) e a velocidade do vento máxima permitida segundo a tabela da capacidade de carga (v_{max_TAB}) refere-se sempre à velocidade de rajadas 3 segundos, a qual existe na altura de elevação máxima.

  Os serviços meteorológicos informam em vez da velocidade de rajadas 3 segundos regularmente também uma velocidade do vento, a qual é indicada como valor médio durante um espaço de tempo de 10 minutos (os chamados 10 minutos médio). Isto refere-se como a força do vento à escala Beaufort normalmente para o valor médio da velocidade do vento, a qual é determinada num espaço de tempo de 10 minutos numa altura de 10 m acima do solo respectivamente acima do nível da água do mar.

  A velocidade de rajadas 3 segundos decisiva para a calculação em altura de elevação máxima é claramente superior do que o valor médio da velocidade do vento, a qual será determinada para além de 10 minutos numa altura de 10 m acima do solo!

O serviço de grua é permitido por princípio até à velocidade do vento máxima permitida (v_{max_TAB}) indicada na correspondente tabela da capacidade de carga para o actual comprimento da lança.

Condição para isso é:

- a superfície exposta ao vento (A_W) da carga de elevação não é maior do que 1,2 m^2/t

PERIGO

Perigo de tombamento e perigo de sobrecarga dos componentes que suportam a carga!

▶ A máxima velocidade permitida conforme a tabela de carga (v_{max_TAB}) não deverá ser ultrapassada, também quando a superfície exposta ao vento da carga de elevação (A_W) for menor que 1,2 m^2/t!

▶ Se a superfície exposta ao vento (A_W) da carga de elevação é maior do que 1,2 m^2/t, a velocidade do vento máxima permitida (v_{max}) para a situação de carga deve ser cálculada novamente!

14.3.1 Determinação da velocidade do vento máxima permitida

Com os métodos seguintes pode ser de novo determinada a velocidade do vento máxima permitida:

1.) Calculação com fórmula
2.) Determinação com Diagramas da força do vento

14.3.2 Calculação da velocidade do vento máxima permitida com fórmula

$$V_{max} = V_{max_TAB} \times \sqrt{\frac{1{,}2\,\frac{m^2}{t} \times m_H}{A_W}}$$

Fórmula para a calculação da velocidade do vento máxima permitida

Para a calculação são necessários os seguintes dados:

- Velocidade do vento máxima permitida segundo a tabela da capacidade de carga (v_{max_TAB})
- Carga de elevação (m_H)
- Superfície de projecção da carga de elevação (A_P)
- Coeficiente da resistência ao vento (c_W)

Descrição da evolução:

1.) Calculação da superfície exposta ao vento ($A_W = A_P$ x c_W)
2.) Controlar, se a superfície exposta ao vento A_W ultrapassa o valor limite de 1,2 m^2/t
3.) Calculação da velocidade do vento máxima permitida (v_{max})

Exemplo para a calculação da velocidade do vento máxima permitida

Dados para a calculação da situação de carga:

v_{max_TAB} = 9,0 m/s
m_H = 50,0 t
A_P = 70,0 m^2
c_W = 1,4

Passo 1: calculação da superfície exposta ao vento

A_W = A_P x c_W
A_W = 70,0 m^2 x 1,4
A_W = 98,0 m^2

Resultado:
- a superfície exposta ao vento A_W é de: **98,0 m^2**

Passo 2: controlar, se a superfície exposta ao vento A_W ultrapassa o valor limite de 1,2 m^2/t

A superfície exposta ao vento por tonelada de carga de elevação é de:
98,0 m^2 / 50 t = **1,96 m^2/t**

Resultado:
- a superfície exposta ao vento por tonelada de carga de elevação ultrapassa o valor limite de 1,2 m^2/t.

▶ A velocidade do vento máxima permitida tem de ser de novo calculada!

Passo 3: calculação da velocidade do vento máxima permitida

$$V_{max} = V_{max_TAB} \times \sqrt{\frac{1{,}2\,\frac{m^2}{t} \times m_H}{A_W}}$$

$$V_{max} = 9\,{}^{m}\!/_{s} \times \sqrt{\frac{1{,}2\,\frac{m^2}{t} \times 50t}{98\,m^2}}$$

$$\underline{\underline{V_{max} = 7{,}04\,{}^{m}\!/_{s}}}$$

Resultado:
- a velocidade do vento máxima permitida é de: **7,04 m/s**

14.3.3 Determinação da velocidade do vento máxima permitida com os Diagramas da força do vento

Dependentemente da velocidade do vento máxima permitida segundo a tabela da capacidade de carga (v_{max_TAB}) pode ser determinada a velocidade do vento máxima permitida (v_{max}) para a situação de carga com os seguintes Diagramas da força do vento.

Disposição dos Diagramas da força do vento:

- **Diagrama 7,0 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 7,0 m/s
- **Diagrama 8,6 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 8,6 m/s
- **Diagrama 9,0 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 9,0 m/s
- **Diagrama 9,9 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 9,9 m/s
- **Diagrama 11,1 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 11,1 m/s
- **Diagrama 12,8 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 12,8 m/s
- **Diagrama 14,3 m/s:** diagramas da força do vento para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 14,3 m/s

AVISO

Perigo de acidente na utilização de diagramas da força do vento falsas!

▶ A velocidade do vento máxima permitida segundo as tabela da capacidade de carga (v_{max_TAB}) tem de condizer com a velocidade do vento máxima permitida dos diagramas da força do vento!

Para a determinação serão necessários os seguintes dados:

- Velocidade do vento máxima permitida segundo a tabela da capacidade de carga (v_{max_TAB})
- Carga de elevação (m_H)
- Superfície de projecção da carga de elevação (A_P)
- Coeficiente da resistência ao vento (c_W)

Descrição da evolução:

1.) Calculação da superfície exposta ao vento ($A_W = A_P \times c_W$)
2.) Controlar, se a superfície exposta ao vento A_W ultrapassa o valor limite de 1,2 m^2/t
3.) Determinação da velocidade do vento máxima permitida (v_{max}) dos Diagramas da força do vento correspondente

Exemplo para a determinação da velocidade do vento máxima permitida

Dados para a calculação da situação de carga:

v_{max_TAB} = 9,0 m/s
m_H = 50,0 t
A_P = 70,0 m^2
c_W = 1,4

Passo 1: calculação da superfície exposta ao vento

A_W = A_P x c_W
A_W = 70,0 m^2 x 1,4
A_W = 98,0 m^2

Resultado:
- a superfície exposta ao vento A_W é de: **98,0 m^2**

Passo 2: controlar, se a superfície exposta ao vento A_W ultrapassa o valor limite de 1,2 m^2/t

A superfície exposta ao vento por tonelada de carga de elevação é de:
98,0 m^2 / 50 t = **1,96 m^2/t**

Resultado:
- a superfície exposta ao vento por tonelada de carga de elevação ultrapassa o valor limite de 1,2 m^2/t.

▶ A velocidade do vento máxima permitida tem de ser de novo determinada!

Passo 3: determinação da velocidade do vento máxima permitida (v_{max}) do Diagrama da força do vento correspondente

Determinação da velocidade do vento máxima permitida (v_{max}) do Diagrama da força do vento correspondente para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 9 m/s.

Diagrama 9,0 m/s

Resultado:
- a velocidade do vento máxima permitida é de: **7,04 m/s**

14.3.4 Diagramas da força do vento

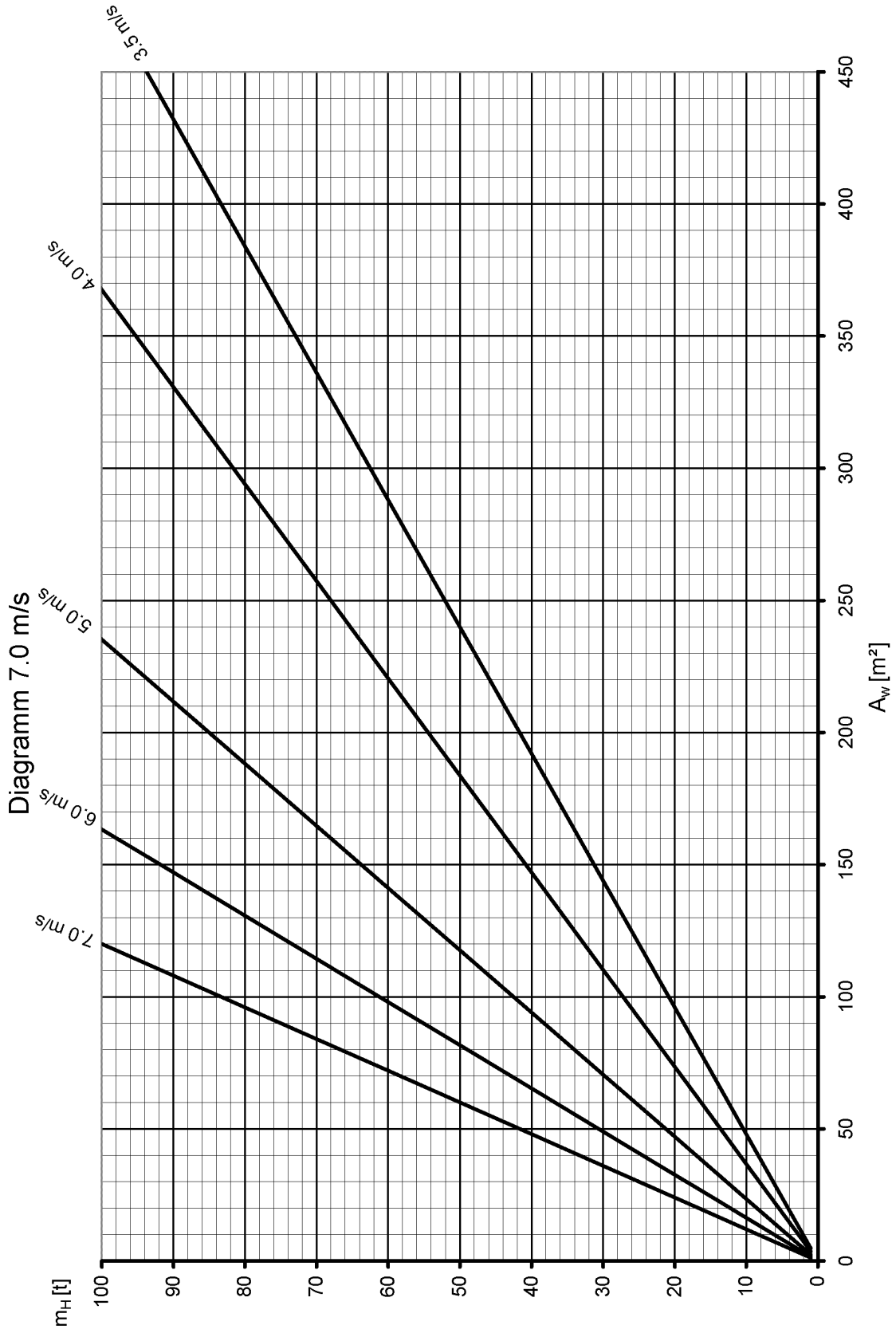


Diagrama da força do vento 7,0 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 7,0 m/s.

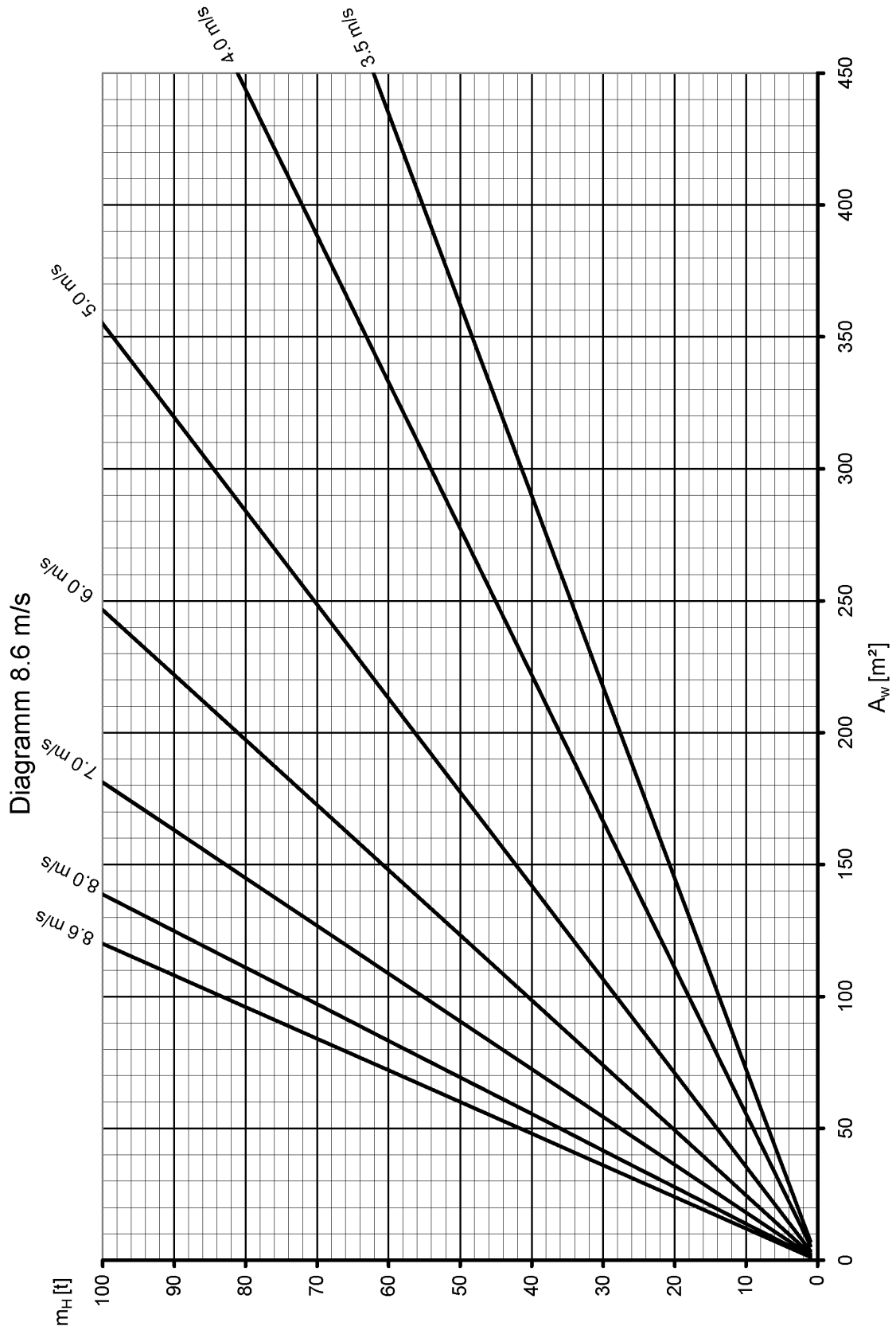


Diagrama da força do vento 8,6 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 8,6 m/s.

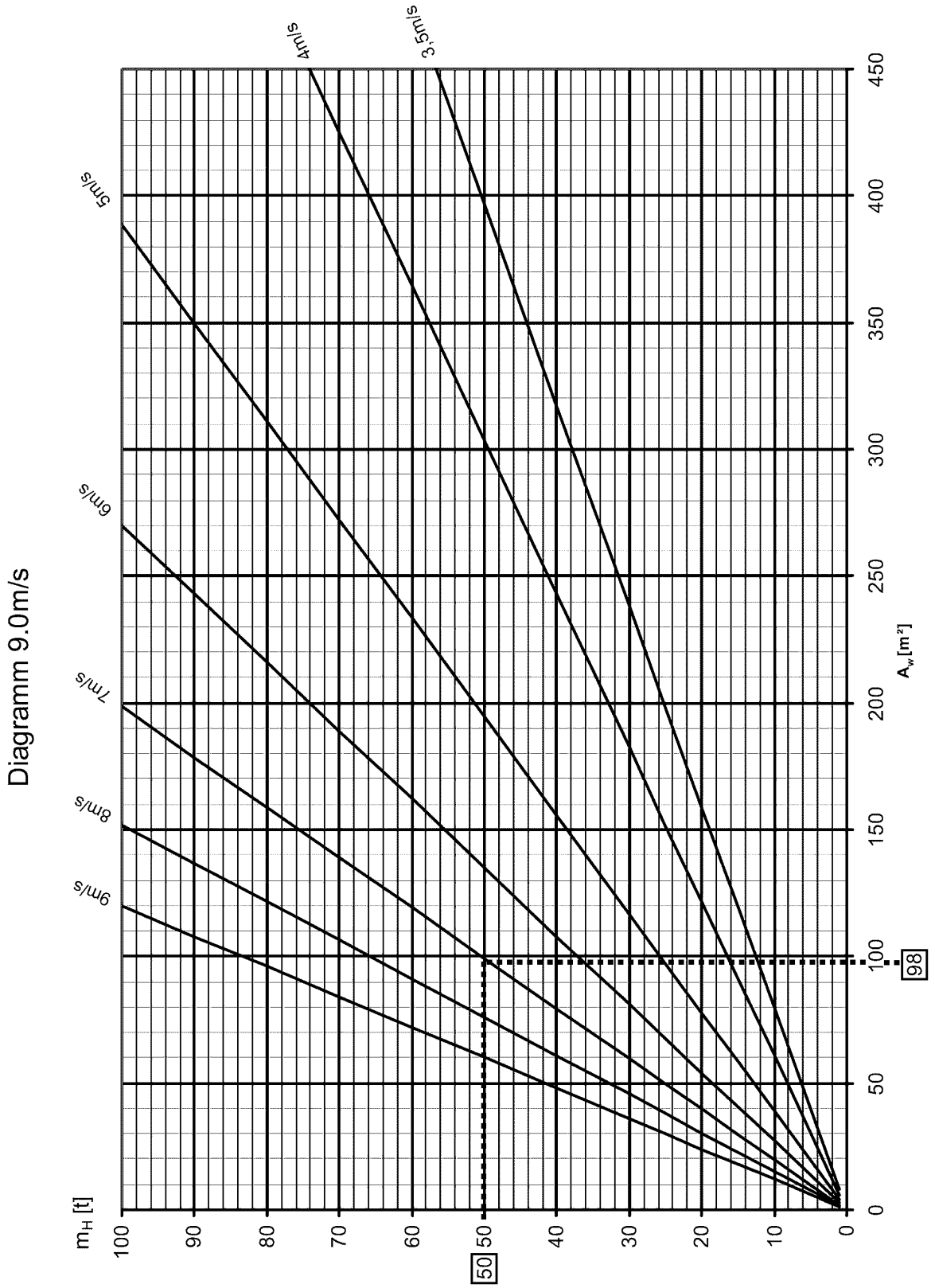


Diagrama da força do vento 9,0 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 9,0 m/s.

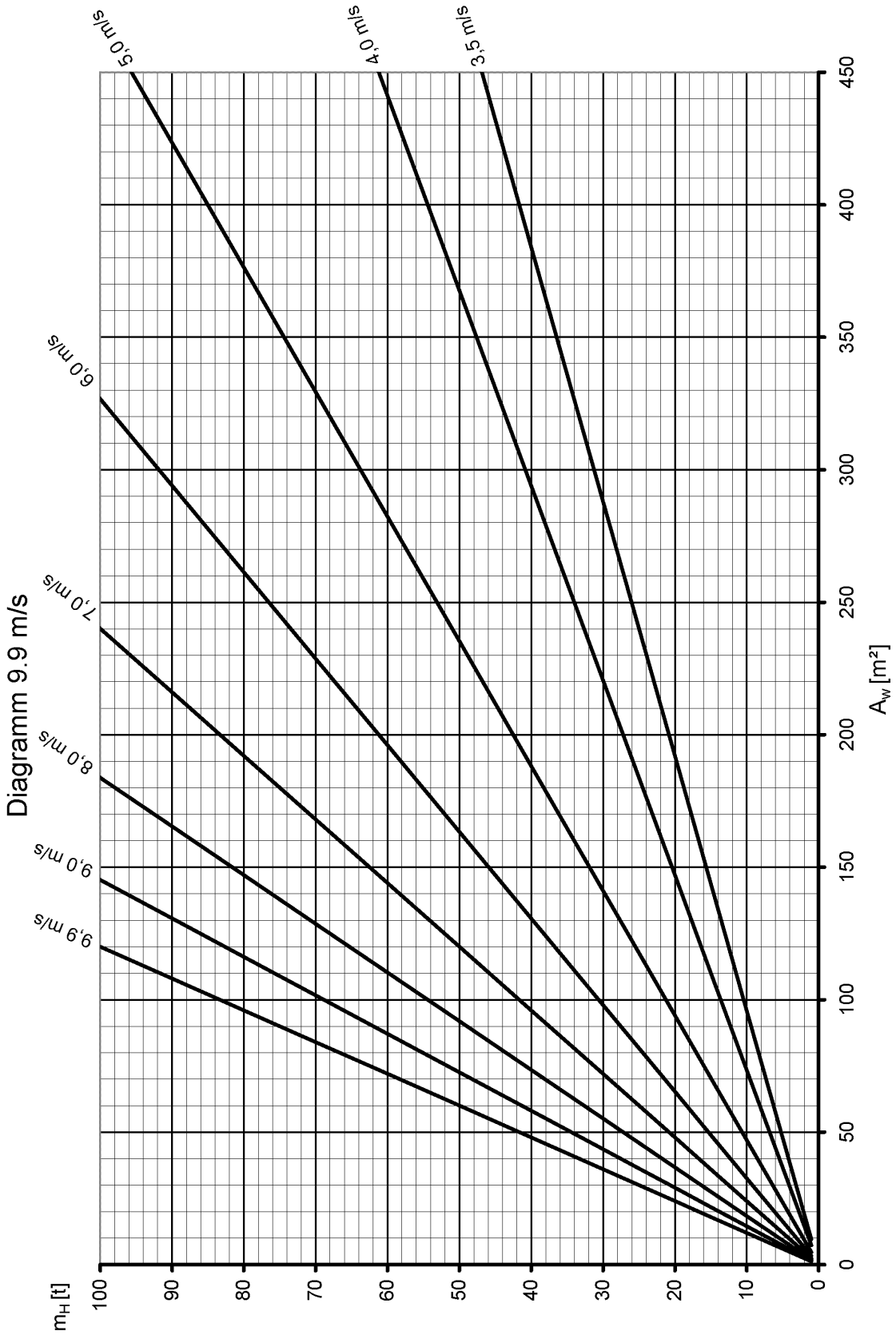


Diagrama da força do vento 9,9 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 9,9 m/s.

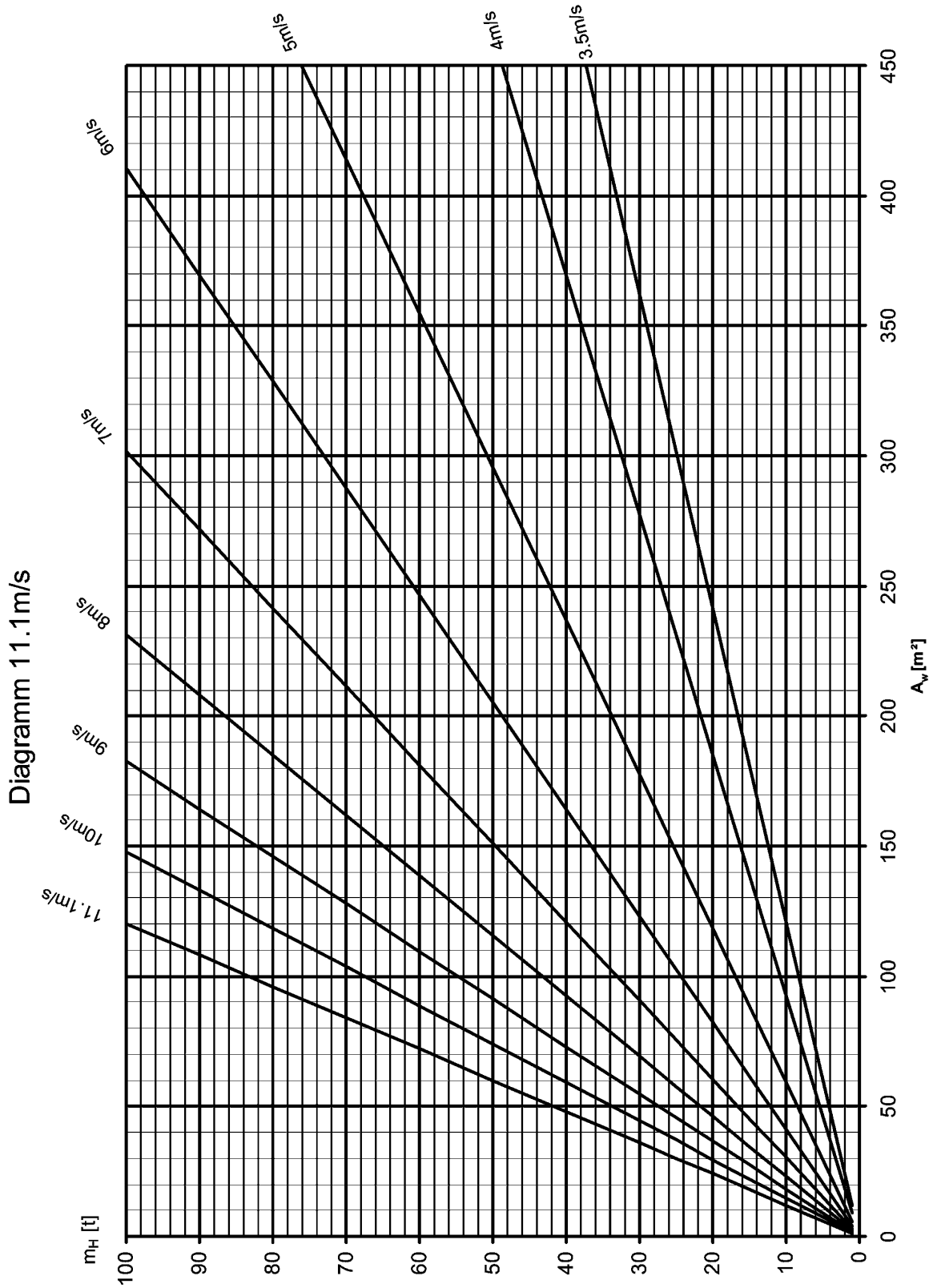


Diagrama da força do vento 11,1 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 11,1 m/s.

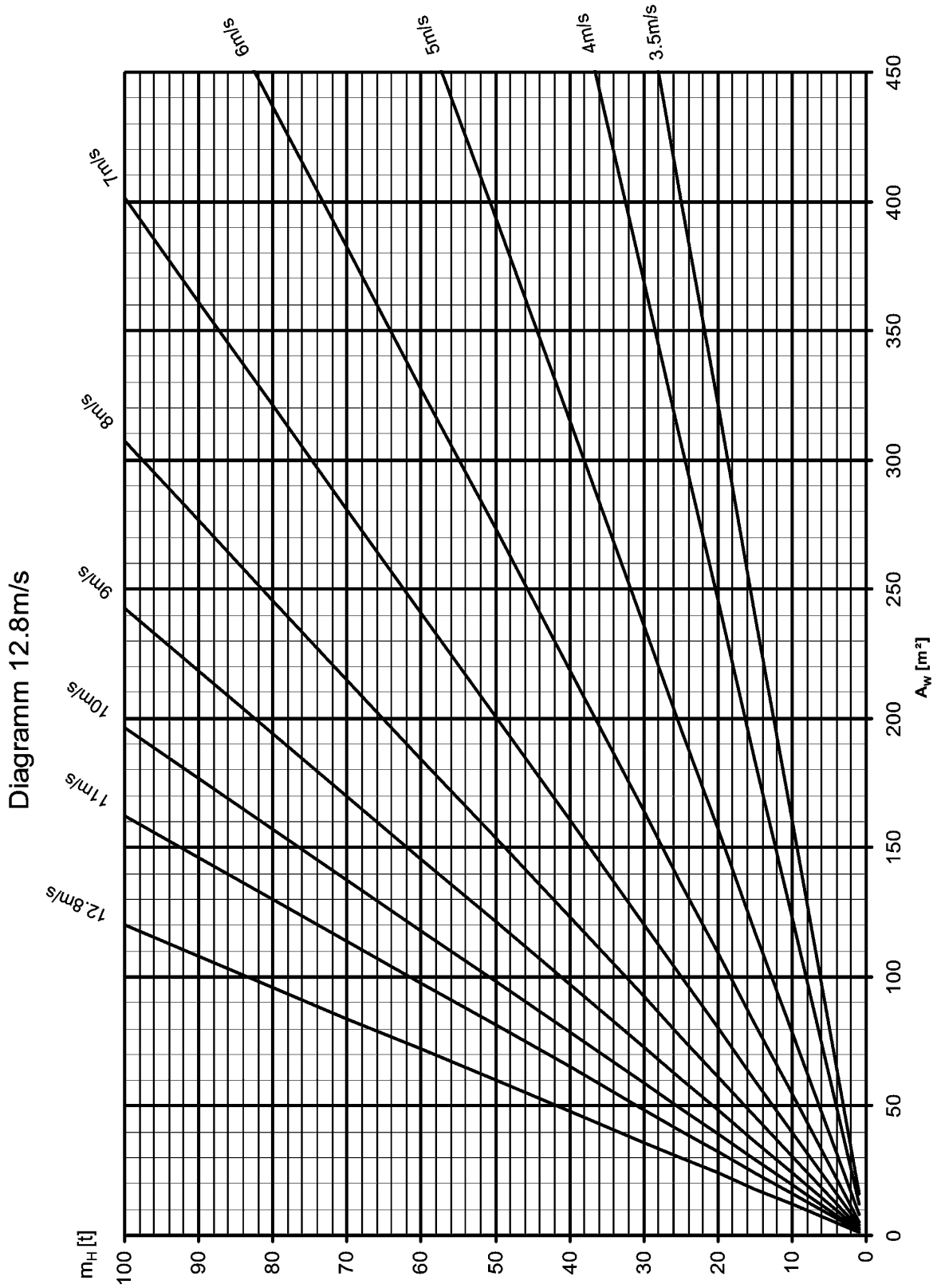


Diagrama da força do vento 12,8 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 12,8 m/s.

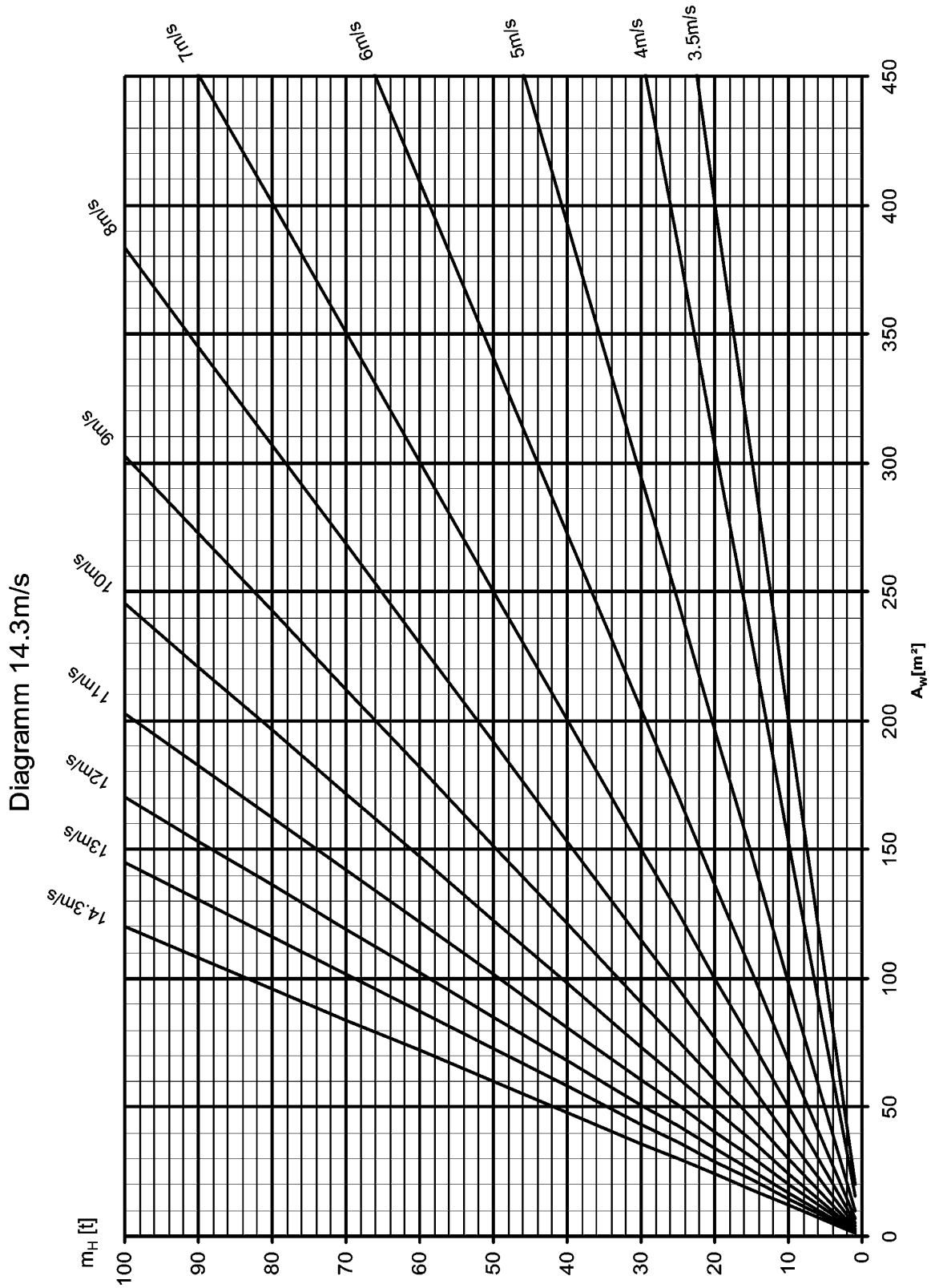
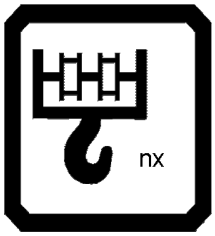


Diagrama da força do vento 14,3 m/s para tabelas de carga com uma velocidade do vento máxima permitida (v_{max_TAB}) de 14,3 m/s.



17

S 21m	--

19

S 28m	--

39

S 35m	--

59

S 8) 42m	--

79

S 8) 49m	--

99

S 8) 56m	--

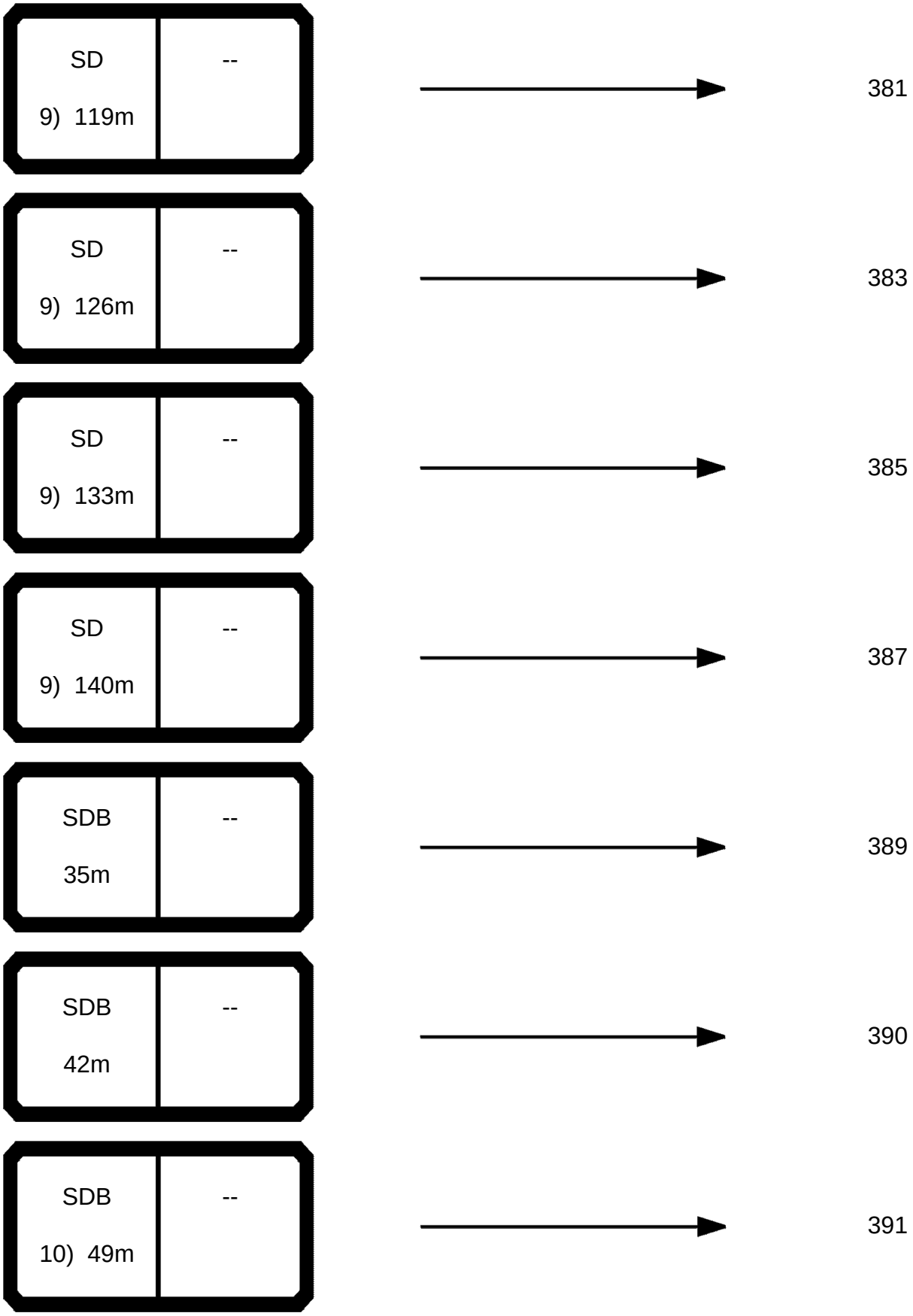
119

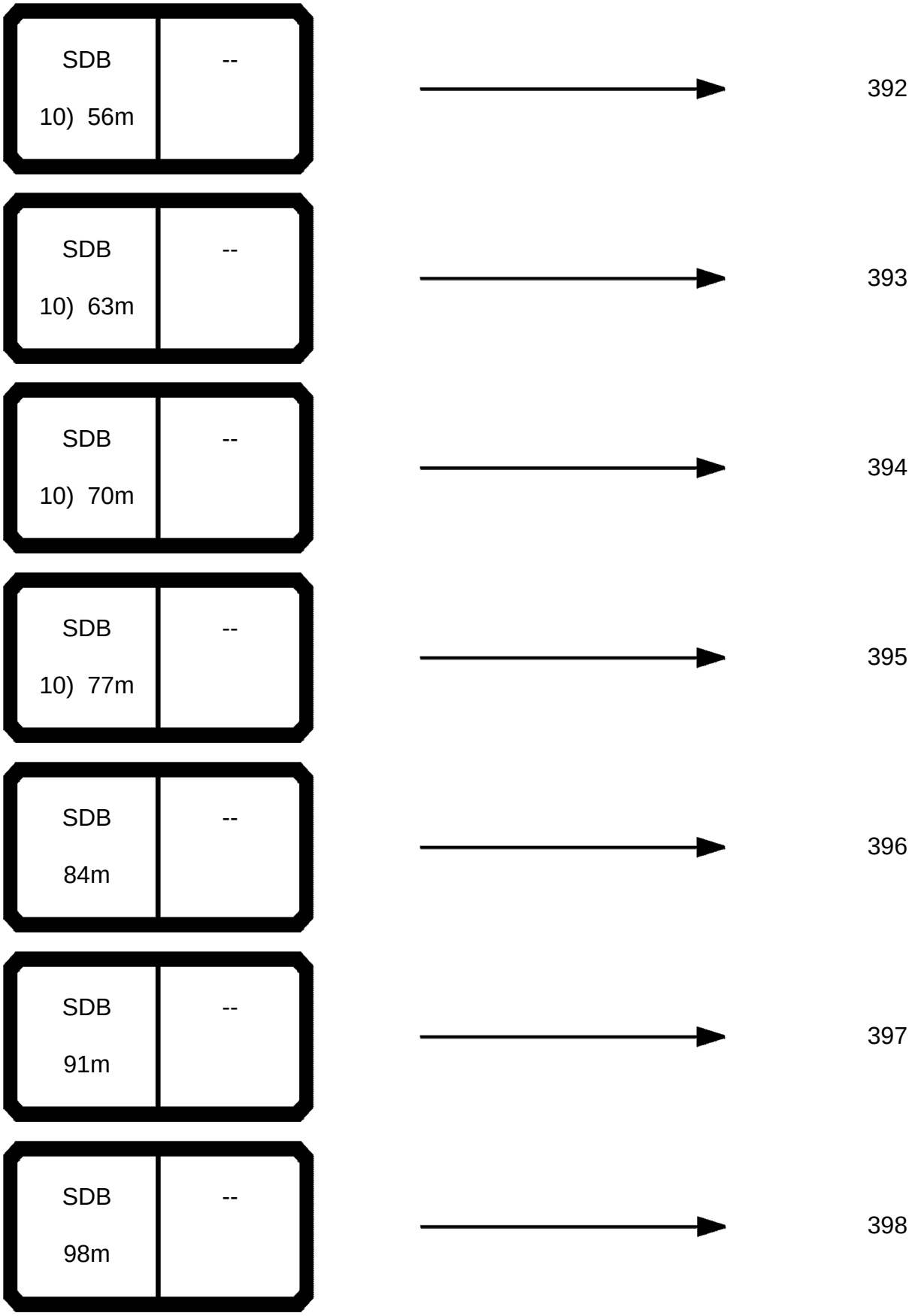
S 8) 63m	--	139
S 8) 70m	--	157
S 8) 77m	--	175
S 8) 84m	--	191
S 8) 91m	--	201
SP S 21m	--	203
SP S 28m	--	217

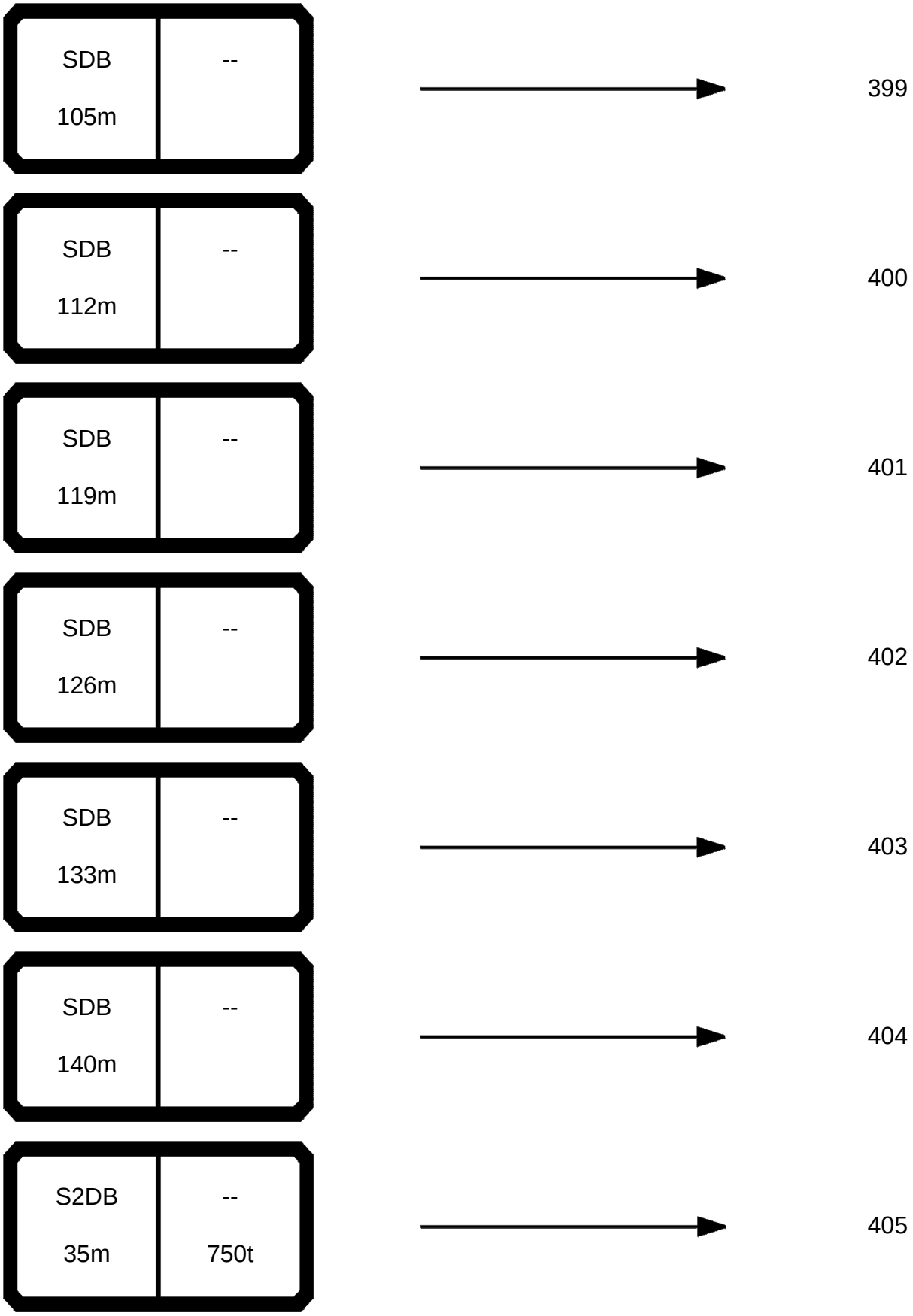
SP S 35m	--	233
SP S 42m	--	250
SP S 8) 49m	--	268
SP S 8) 56m	--	286
SP S 8) 63m	--	303
SP S 8) 70m	--	318
SP S 8) 77m	--	332

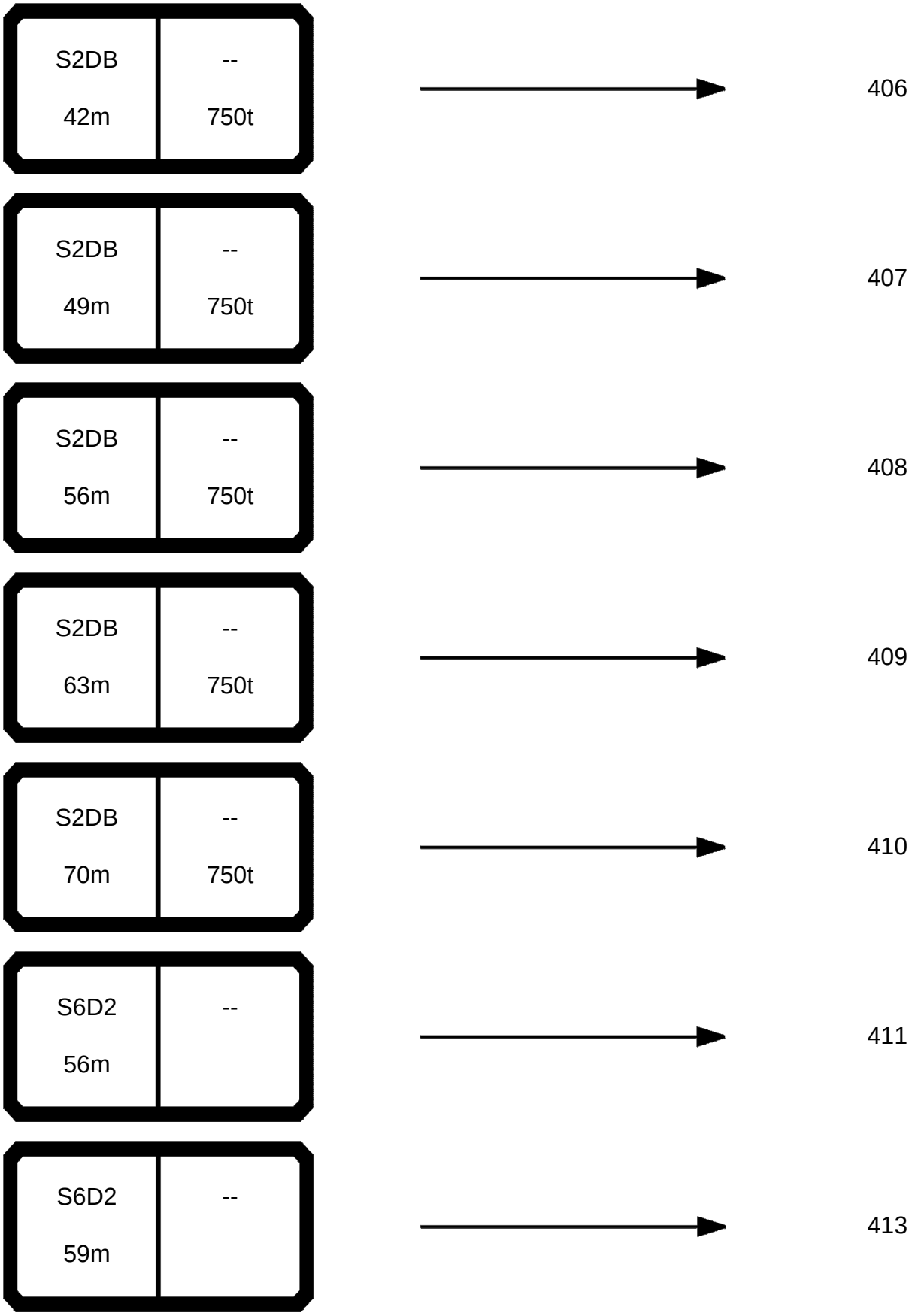
SP S 8) 84m	--	344
SP S 8) 91m	--	352
SD 9) 35m	--	357
SD 9) 42m	--	359
SD 9) 49m	--	361
SD 9) 56m	--	363
SD 9) 63m	--	365

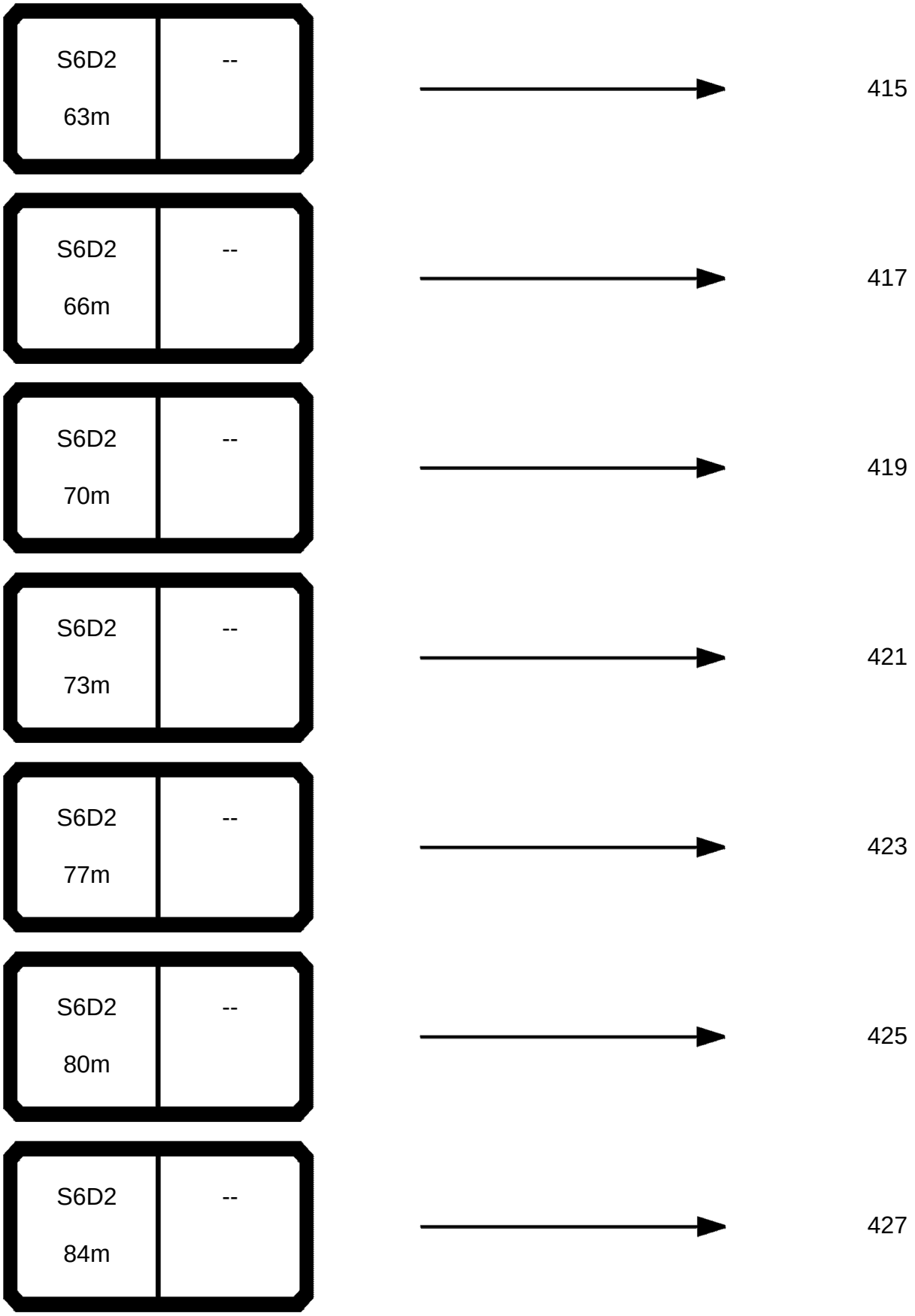
SD 9) 70m	--	367
SD 9) 77m	--	369
SD 9) 84m	--	371
SD 9) 91m	--	373
SD 9) 98m	--	375
SD 9) 105m	--	377
SD 9) 112m	--	379

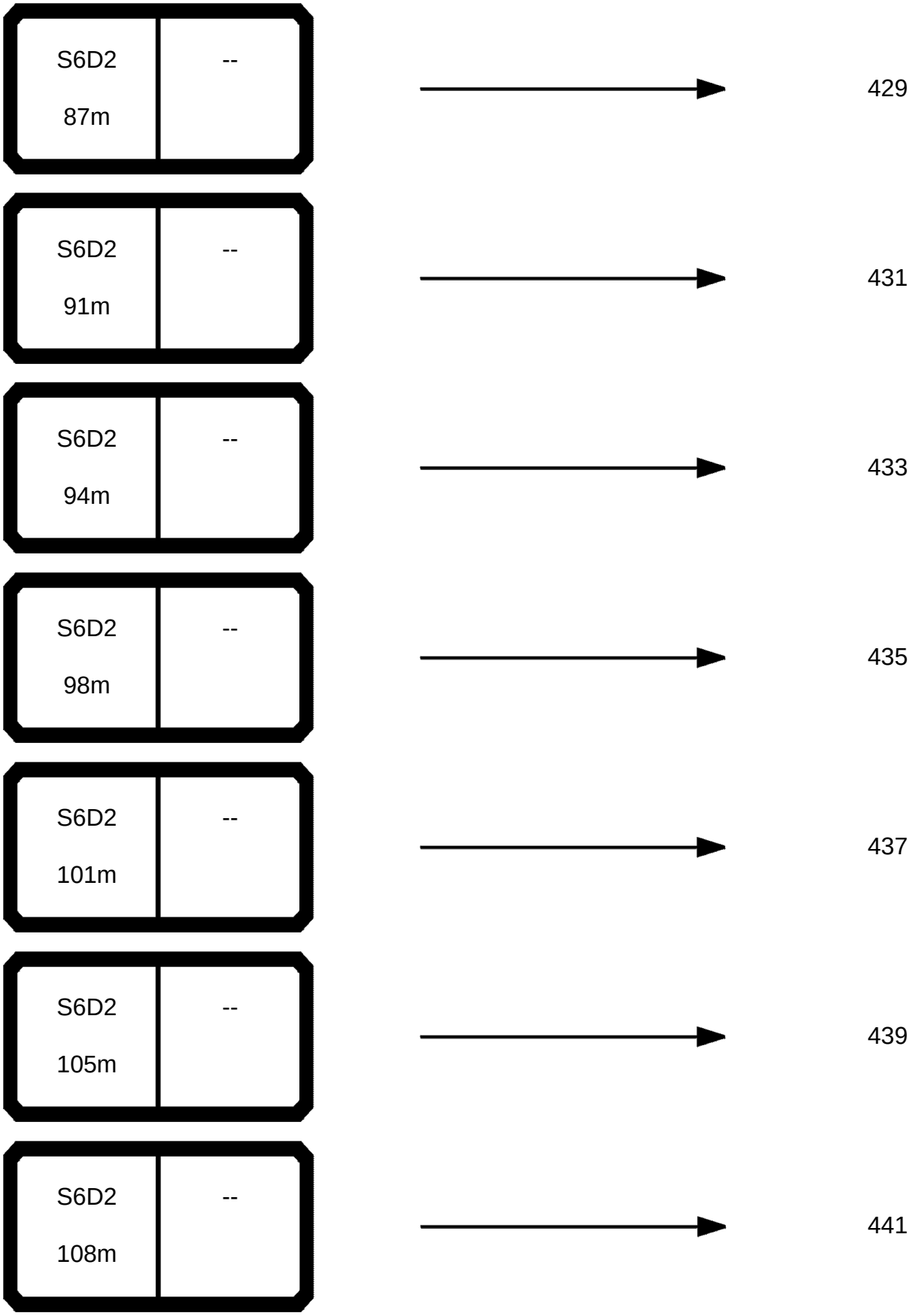

SD
9) 119m
--
381
SD
9) 126m
--
383
SD
9) 133m
--
385
SD
9) 140m
--
387
SDB
35m
--
389
SDB
42m
--
390
SDB
10) 49m
--
391

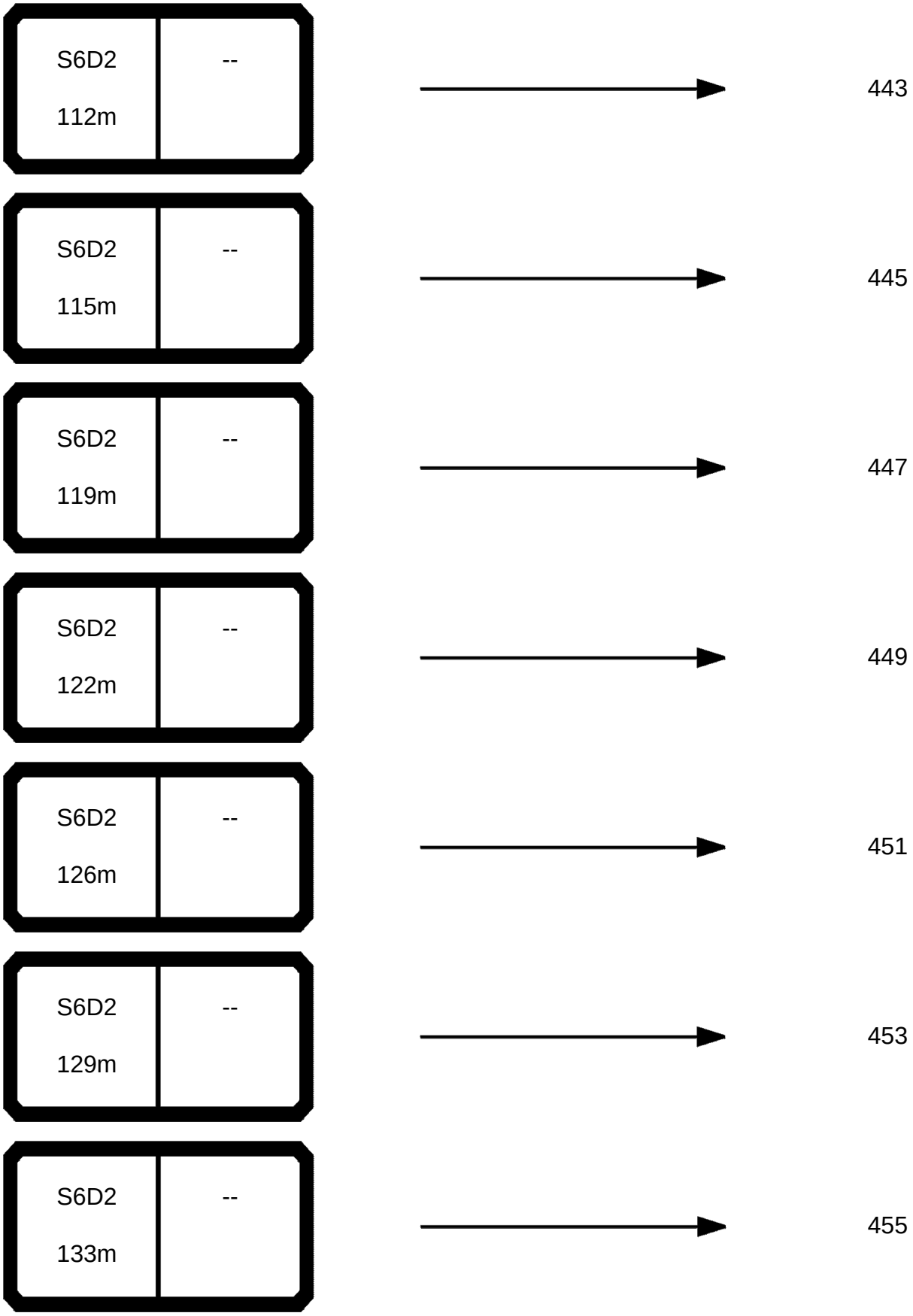

SDB
10) 56m
--
392
SDB
10) 63m
--
393
SDB
10) 70m
--
394
SDB
10) 77m
--
395
SDB
84m
--
396
SDB
91m
--
397
SDB
98m
--
398


SDB
105m
--
399
SDB
112m
--
400
SDB
119m
--
401
SDB
126m
--
402
SDB
133m
--
403
SDB
140m
--
404
S2DB
35m
--
750t
405


S2DB
42m
--
750t
406
S2DB
49m
--
750t
407
S2DB
56m
--
750t
408
S2DB
63m
--
750t
409
S2DB
70m
--
750t
410
S6D2
56m
--
411
S6D2
59m
--
413

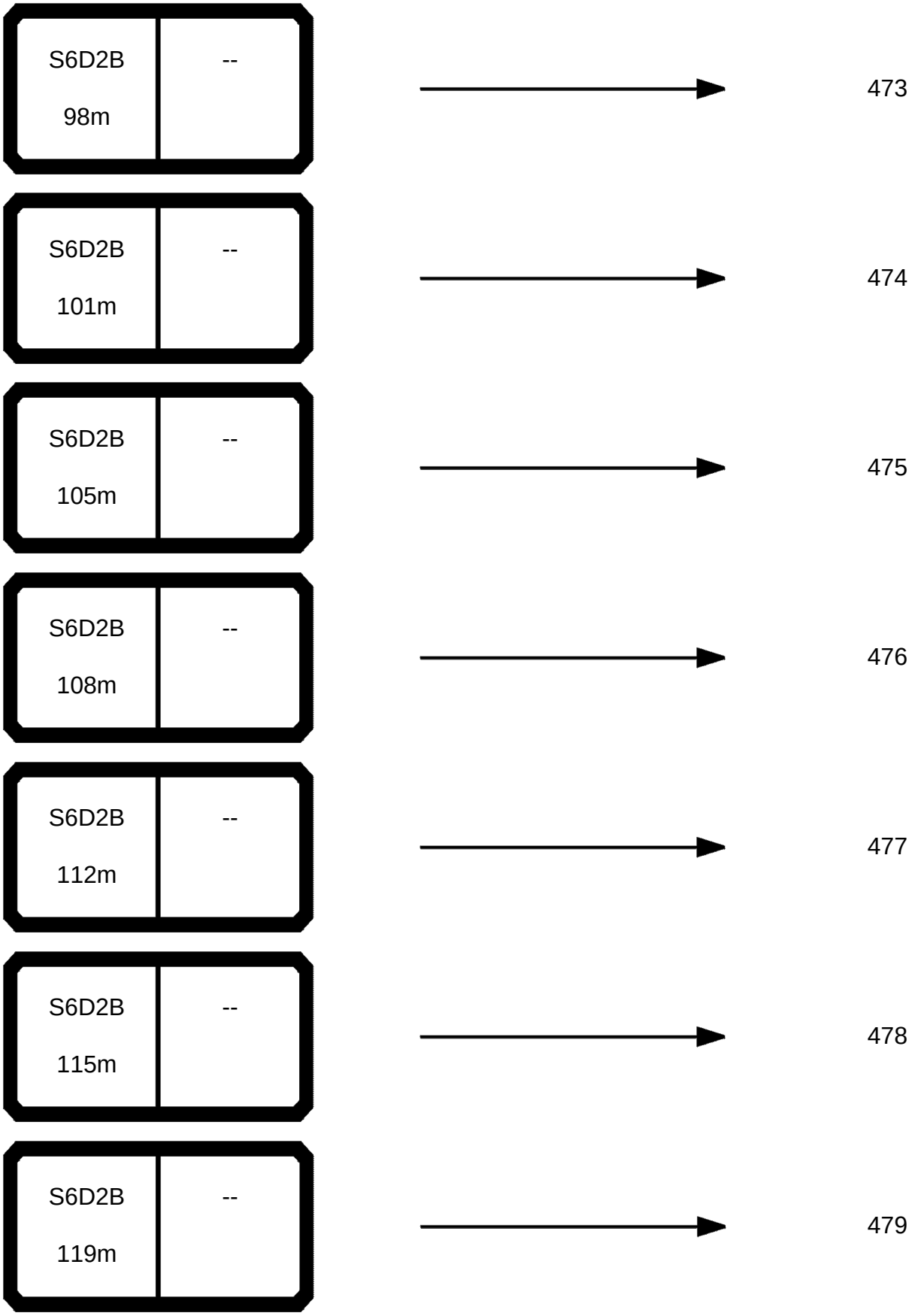

S6D2
63m
--
415
S6D2
66m
--
417
S6D2
70m
--
419
S6D2
73m
--
421
S6D2
77m
--
423
S6D2
80m
--
425
S6D2
84m
--
427

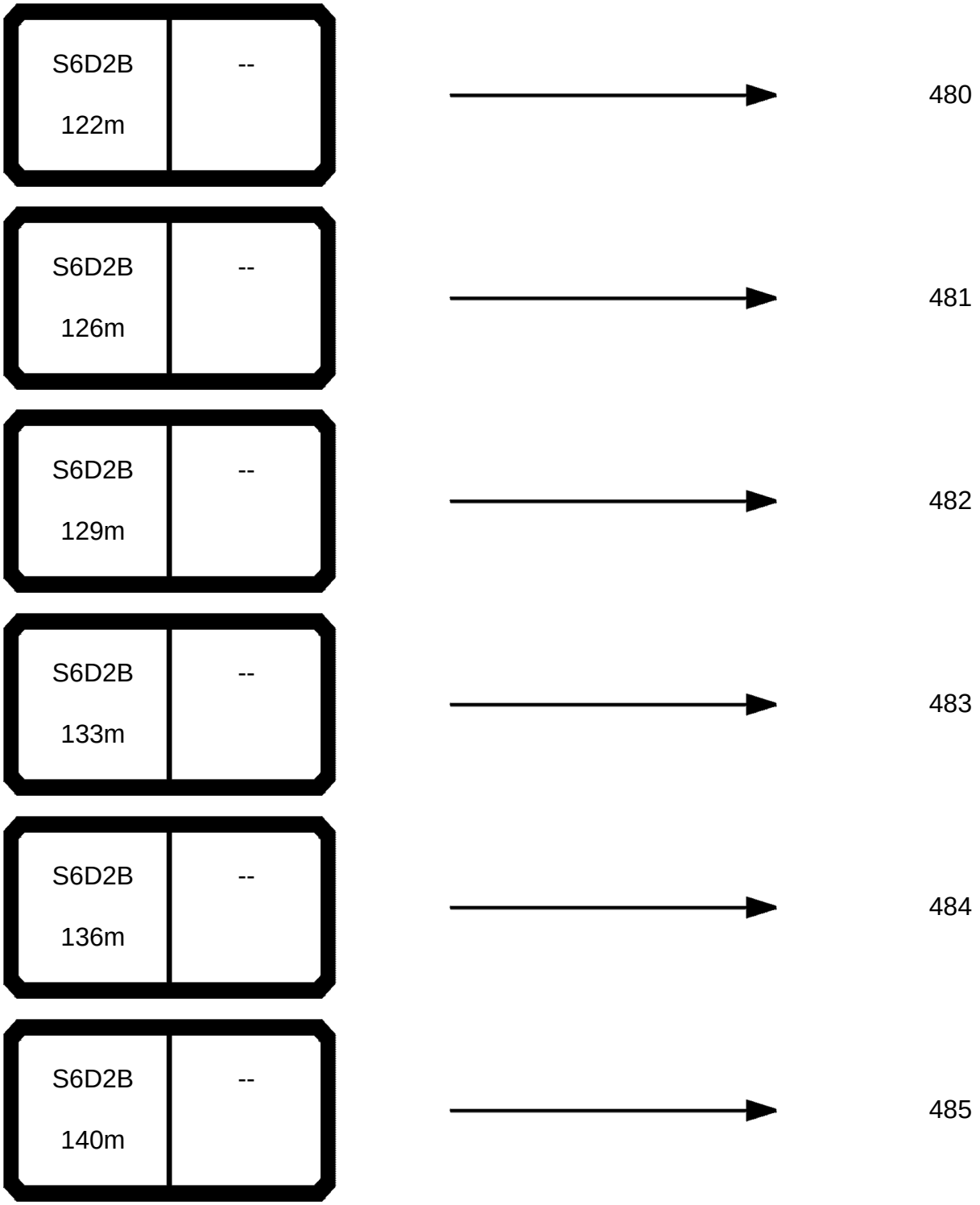

S6D2
87m
--
429
S6D2
91m
--
431
S6D2
94m
--
433
S6D2
98m
--
435
S6D2
101m
--
437
S6D2
105m
--
439
S6D2
108m
--
441


S6D2
112m
--
443
S6D2
115m
--
445
S6D2
119m
--
447
S6D2
122m
--
449
S6D2
126m
--
451
S6D2
129m
--
453
S6D2
133m
--
455

S6D2 136m	--	457
S6D2 140m	--	459
S6D2B 20) 56m	--	461
S6D2B 20) 59m	--	462
S6D2B 20) 63m	--	463
S6D2B 20) 66m	--	464
S6D2B 20) 70m	--	465

S6D2B 20) 73m	--	466
S6D2B 20) 77m	--	467
S6D2B 20) 80m	--	468
S6D2B 20) 84m	--	469
S6D2B 20) 87m	--	470
S6D2B 20) 91m	--	471
S6D2B 94m	--	472


S6D2B
98m
--
473
S6D2B
101m
--
474
S6D2B
105m
--
475
S6D2B
108m
--
476
S6D2B
112m
--
477
S6D2B
115m
--
478
S6D2B
119m
--
479


S6D2B
122m
--
480
S6D2B
126m
--
481
S6D2B
129m
--
482
S6D2B
133m
--
483
S6D2B
136m
--
484
S6D2B
140m
--
485

nx	t
1	16,1
2	31,9
3	47,5
4	62,8
5	78,0
6	92,8
7	107,5
8	122,0
9	136,2
10	150,2
11	164,0
12	177,6
13	191,0
14	204,2
15	217,2
16	230,1
17	242,7
18	255,1
19	267,3
20	279,4
21	291,3
22	303,0
23	314,5
24	325,8
25	337,0
26	348,0
27	358,9
28	369,5
29	380,1
30	390,4
31	400,6
32	410,7
33	420,6
34	430,4
35	440,0
36	449,4
37	458,8
38	467,9
39	477,0
40	485,9

nx	t
41	494,7
42	503,3
43	511,8
44	520,2
45	528,5
46	536,6
47	544,6
48	552,5
49	560,3
50	568,0
51	575,5
52	582,9
53	590,3
54	597,5
55	604,6
56	611,6
57	618,5
58	625,3
59	631,9
60	638,5
61	645,0
62	651,4
63	657,7
64	663,9
65	670,0
66	676,0
67	681,9
68	687,8
69	693,5
70	699,2
71	704,8
72	710,3
73	715,7
74	721,0
75	726,3
76	731,4
77	736,5
78	741,5
79	746,5
80	750,0

ISO DIN

S	--
21m	

073806 *** 010 22.00

m > < t CODE >0020< B154 0000

m	21,0
6,0	488,0
6,5	407,0
7,0	336,0
8,0	247,0
9,0	193,0
10,0	157,0
11,0	130,0
12,0	111,0
14,0	83,0
16,0	65,0
18,0	51,0
20,0	40,5
*** n ***	41
m/s	14,3

S 21m	--	20 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 009 22.00

m > < t CODE >0019< B154 0000

m	21,0
6,0	525,0
6,5	487,0
7,0	449,0
8,0	384,0
9,0	307,0
10,0	252,0
11,0	213,0
12,0	184,0
14,0	142,0
16,0	110,0
18,0	88,0
20,0	72,0
*** n ***	45
m/s	14,3

S 21m	--	45 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 008 22.00

m > < t CODE >0018< B154 0000

m	21,0
6,0	543,0
6,5	504,0
7,0	469,0
8,0	404,0
9,0	353,0
10,0	305,0
11,0	258,0
12,0	223,0
14,0	174,0
16,0	135,0
18,0	109,0
20,0	90,0
*** n ***	47
m/s	14,3

S 21m	--	70 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 007 22.00

m > < t CODE >0017< B154 0000

m	21,0
6,0	561,0
6,5	521,0
7,0	485,0
8,0	424,0
9,0	370,0
10,0	328,0
11,0	294,0
12,0	263,0
14,0	205,0
16,0	159,0
18,0	129,0
20,0	107,0
*** n ***	50
m/s	14,3

S 21m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 006 22.00

m > < t CODE >0016< B154 0000

m	21,0
6,0	579,0
6,5	537,0
7,0	501,0
8,0	440,0
9,0	388,0
10,0	344,0
11,0	309,0
12,0	279,0
14,0	234,0
16,0	184,0
18,0	150,0
20,0	125,0
*** n ***	52
m/s	14,3

S 21m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 005 22.00

m	21,0
6,0	597,0
6,5	554,0
7,0	516,0
8,0	454,0
9,0	405,0
10,0	360,0
11,0	323,0
12,0	292,0
14,0	245,0
16,0	208,0
18,0	170,0
20,0	143,0
*** n ***	54
m/s	14,3

m > < t

CODE >0015<

B154 0000

	S 21m	--	145 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 004 22.00

m	21,0
6,0	616,0
6,5	571,0
7,0	532,0
8,0	468,0
9,0	417,0
10,0	375,0
11,0	337,0
12,0	305,0
14,0	256,0
16,0	220,0
18,0	190,0
20,0	160,0
*** n ***	56!
m/s	14,3

m > < t

CODE >0014<

B154 0000

	S 21m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 003 22.00

m > < t CODE >0013< B154 0000

m	21,0
6,0	634,0
6,5	588,0
7,0	548,0
8,0	482,0
9,0	430,0
10,0	387,0
11,0	351,0
12,0	318,0
14,0	267,0
16,0	229,0
18,0	200,0
20,0	177,0
*** n ***	56!
m/s	14,3

S 21m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 002 22.00

m > < t CODE >0012< B154 0000

m	21,0
6,0	652,0
6,5	605,0
7,0	564,0
8,0	496,0
9,0	442,0
10,0	399,0
11,0	363,0
12,0	331,0
14,0	278,0
16,0	239,0
18,0	209,0
20,0	185,0
*** n ***	56!
m/s	14,3

S 21m	--	220 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
21m	

073806 *** 001 22.00

m > < t CODE >0011< B154 0000

m	21,0
6,0	670,0
6,5	621,0
7,0	579,0
8,0	510,0
9,0	455,0
10,0	410,0
11,0	373,0
12,0	342,0
14,0	289,0
16,0	248,0
18,0	217,0
20,0	186,0
*** n ***	56!
m/s	14,3

S 21m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
21m	

073806 *** 029 22.00

m > < t CODE >0010< B154 0000

m	21,0
6,0	488,0
6,5	444,0
7,0	407,0
8,0	348,0
9,0	304,0
10,0	269,0
11,0	241,0
12,0	204,0
14,0	148,0
16,0	114,0
18,0	86,0
20,0	68,0
*** n ***	41
m/s	14,3

S 21m	--	20 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 028 22.00

m > < t CODE >0009< B154 0000

m	21,0
6,0	525,0
6,5	487,0
7,0	449,0
8,0	384,0
9,0	335,0
10,0	297,0
11,0	266,0
12,0	241,0
14,0	201,0
16,0	172,0
18,0	137,0
20,0	111,0
*** n ***	45
m/s	14,3

S 21m	--	45 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 027 22.00

m > < t CODE >0008< B154 0000

m	21,0
6,0	543,0
6,5	504,0
7,0	469,0
8,0	404,0
9,0	353,0
10,0	313,0
11,0	280,0
12,0	254,0
14,0	212,0
16,0	182,0
18,0	158,0
20,0	134,0
*** n ***	47
m/s	14,3

S 21m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 026 22.00

m	21,0
6,0	546,0
6,5	521,0
7,0	485,0
8,0	424,0
9,0	370,0
10,0	328,0
11,0	294,0
12,0	266,0
14,0	223,0
16,0	191,0
18,0	167,0
20,0	147,0
*** n ***	48
m/s	14,3

m > < t

CODE >0007<

B154 0000

	S 21m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 025 22.00

m > < t CODE >0006< B154 0000

m	21,0
6,0	548,0
6,5	525,0
7,0	501,0
8,0	440,0
9,0	388,0
10,0	344,0
11,0	308,0
12,0	279,0
14,0	234,0
16,0	201,0
18,0	175,0
20,0	155,0
*** n ***	48
m/s	14,3

S 21m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 024 22.00

m > < t CODE >0005< B154 0000

m	21,0
6,0	551,0
6,5	527,0
7,0	506,0
8,0	454,0
9,0	405,0
10,0	359,0
11,0	322,0
12,0	292,0
14,0	245,0
16,0	210,0
18,0	183,0
20,0	162,0
*** n ***	48
m/s	14,3

S 21m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 023 22.00

m > < t CODE >0004< B154 0000

m	21,0
6,0	553,0
6,5	529,0
7,0	508,0
8,0	468,0
9,0	417,0
10,0	375,0
11,0	337,0
12,0	305,0
14,0	256,0
16,0	220,0
18,0	192,0
20,0	170,0
*** n ***	49
m/s	14,3

S 21m	--	170 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 022 22.00

m	21,0
6,0	555,0
6,5	531,0
7,0	510,0
8,0	471,0
9,0	430,0
10,0	387,0
11,0	351,0
12,0	318,0
14,0	267,0
16,0	229,0
18,0	200,0
20,0	177,0
*** n ***	49
m/s	14,3

m > < t

CODE >0003<

B154 0000

	S 21m	--	195 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 021 22.00

m	21,0
6,0	557,0
6,5	533,0
7,0	512,0
8,0	473,0
9,0	439,0
10,0	399,0
11,0	363,0
12,0	331,0
14,0	278,0
16,0	239,0
18,0	209,0
20,0	185,0
*** n ***	49
m/s	14,3

m > < t

CODE >0002<

B154 0000

	S 21m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
21m	

073806 *** 020 22.00

m	21,0
6,0	559,0
6,5	536,0
7,0	514,0
8,0	474,0
9,0	441,0
10,0	410,0
11,0	373,0
12,0	342,0
14,0	289,0
16,0	248,0
18,0	217,0
20,0	186,0
*** n ***	49
m/s	14,3

m > < t

CODE >0001<

B154 0000

	S 21m	--	245 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 010 22.00

m > < t CODE >0040< B154 0100

m	28,0
6,5	332,0
7,0	282,0
8,0	215,0
9,0	171,0
10,0	141,0
11,0	118,0
12,0	101,0
14,0	77,0
16,0	60,0
18,0	48,0
20,0	39,0
22,0	32,0
24,0	26,5
26,0	21,6
*** n ***	25
m/s	14,3

S 28m	--	20 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 009 22.00

m > < t CODE >0039< B154 0100

m	28,0
6,5	484,0
7,0	440,0
8,0	339,0
9,0	273,0
10,0	228,0
11,0	194,0
12,0	169,0
14,0	132,0
16,0	107,0
18,0	88,0
20,0	73,0
22,0	61,0
24,0	52,0
26,0	44,0
*** n ***	40
m/s	14,3

S 28m	--	45 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 008 22.00

m	28,0
6,5	501,0
7,0	467,0
8,0	403,0
9,0	330,0
10,0	276,0
11,0	236,0
12,0	205,0
14,0	162,0
16,0	132,0
18,0	109,0
20,0	90,0
22,0	76,0
24,0	65,0
26,0	57,0
*** n ***	42
m/s	14,3

m > < t

CODE >0038<

B154 0100

	S 28m	--	70 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 007 22.00

m	28,0
6,5	518,0
7,0	483,0
8,0	422,0
9,0	369,0
10,0	324,0
11,0	278,0
12,0	242,0
14,0	192,0
16,0	157,0
18,0	130,0
20,0	108,0
22,0	92,0
24,0	79,0
26,0	69,0
*** n ***	44
m/s	14,3

m > < t

CODE >0037<

B154 0100

S 28m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 006 22.00

m	28,0
6,5	535,0
7,0	498,0
8,0	438,0
9,0	386,0
10,0	342,0
11,0	307,0
12,0	278,0
14,0	222,0
16,0	183,0
18,0	150,0
20,0	125,0
22,0	107,0
24,0	93,0
26,0	81,0
*** n ***	46
m/s	14,3

m > < t

CODE >0036<

B154 0100

	S 28m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 005 22.00

m > < t CODE >0035< B154 0100

m	28,0
6,5	552,0
7,0	514,0
8,0	452,0
9,0	403,0
10,0	358,0
11,0	321,0
12,0	291,0
14,0	243,0
16,0	208,0
18,0	171,0
20,0	143,0
22,0	122,0
24,0	106,0
26,0	93,0
*** n ***	48
m/s	14,3

S 28m	--	145 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 004 22.00

m	28,0
6,5	569,0
7,0	530,0
8,0	466,0
9,0	415,0
10,0	373,0
11,0	335,0
12,0	303,0
14,0	254,0
16,0	218,0
18,0	190,0
20,0	160,0
22,0	138,0
24,0	120,0
26,0	106,0
*** n ***	51
m/s	14,3

m > < t CODE >0034< B154 0100

S 28m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 003 22.00

m > < t CODE >0033< B154 0100

m	28,0
6,5	585,0
7,0	546,0
8,0	480,0
9,0	428,0
10,0	385,0
11,0	349,0
12,0	316,0
14,0	265,0
16,0	228,0
18,0	199,0
20,0	176,0
22,0	153,0
24,0	133,0
26,0	118,0
*** n ***	53
m/s	14,3

S 28m	--	195 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 002 22.00

m > < t CODE >0032< B154 0100

m	28,0
6,5	602,0
7,0	561,0
8,0	494,0
9,0	440,0
10,0	396,0
11,0	360,0
12,0	329,0
14,0	276,0
16,0	237,0
18,0	207,0
20,0	183,0
22,0	164,0
24,0	147,0
26,0	130,0
*** n ***	55
m/s	14,3

S 28m	--	220 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 001 22.00

m	28,0
6,5	619,0
7,0	577,0
8,0	507,0
9,0	452,0
10,0	408,0
11,0	371,0
12,0	340,0
14,0	287,0
16,0	247,0
18,0	216,0
20,0	191,0
22,0	171,0
24,0	155,0
26,0	141,0
*** n ***	56!
m/s	14,3

m > < t

CODE >0031<

B154 0100

S 28m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
28m	

073806 *** 029 22.00

m	28,0
6,5	438,0
7,0	404,0
8,0	347,0
9,0	302,0
10,0	267,0
11,0	223,0
12,0	185,0
14,0	136,0
16,0	105,0
18,0	85,0
20,0	69,0
22,0	57,0
24,0	47,0
26,0	39,0
*** n ***	35
m/s	14,3

m > < t

CODE >0030<

B154 0100

S 28m	--	20 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 028 22.00

m > < t CODE >0029< B154 0100

m	28,0
6,5	484,0
7,0	447,0
8,0	383,0
9,0	334,0
10,0	295,0
11,0	265,0
12,0	239,0
14,0	200,0
16,0	168,0
18,0	138,0
20,0	112,0
22,0	93,0
24,0	78,0
26,0	67,0
*** n ***	40
m/s	14,3

S 28m	--	45 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 027 22.00

m > < t CODE >0028< B154 0100

m	28,0
6,5	501,0
7,0	467,0
8,0	402,0
9,0	351,0
10,0	311,0
11,0	279,0
12,0	252,0
14,0	211,0
16,0	180,0
18,0	157,0
20,0	135,0
22,0	113,0
24,0	96,0
26,0	83,0
*** n ***	42
m/s	14,3

S 28m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 026 22.00

m > < t CODE >0027< B154 0100

m	28,0
6,5	518,0
7,0	483,0
8,0	422,0
9,0	369,0
10,0	327,0
11,0	293,0
12,0	265,0
14,0	222,0
16,0	190,0
18,0	165,0
20,0	146,0
22,0	130,0
24,0	114,0
26,0	99,0
*** n ***	44
m/s	14,3

S 28m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 025 22.00

m	28,0
6,5	521,0
7,0	498,0
8,0	438,0
9,0	386,0
10,0	342,0
11,0	307,0
12,0	278,0
14,0	233,0
16,0	199,0
18,0	174,0
20,0	153,0
22,0	137,0
24,0	123,0
26,0	112,0
*** n ***	45
m/s	14,3

m > < t

CODE >0026<

B154 0100

S 28m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 024 22.00

m	28,0
6,5	523,0
7,0	502,0
8,0	452,0
9,0	403,0
10,0	358,0
11,0	321,0
12,0	290,0
14,0	243,0
16,0	209,0
18,0	182,0
20,0	161,0
22,0	144,0
24,0	130,0
26,0	118,0
*** n ***	45
m/s	14,3

m > < t

CODE >0025<

B154 0100

	S 28m	--	145 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
28m	

073806 *** 023 22.00

m > < t CODE >0024< B154 0100

m	28,0
6,5	526,0
7,0	504,0
8,0	465,0
9,0	415,0
10,0	373,0
11,0	335,0
12,0	303,0
14,0	254,0
16,0	218,0
18,0	190,0
20,0	168,0
22,0	151,0
24,0	136,0
26,0	123,0
*** n ***	45
m/s	14,3

S 28m	--	170 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 022 22.00

m > < t CODE >0023< B154 0100

m	28,0
6,5	528,0
7,0	506,0
8,0	467,0
9,0	428,0
10,0	385,0
11,0	349,0
12,0	316,0
14,0	265,0
16,0	228,0
18,0	199,0
20,0	176,0
22,0	157,0
24,0	142,0
26,0	129,0
*** n ***	45
m/s	14,3

S 28m	--	195 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 021 22.00

m	28,0
6,5	530,0
7,0	508,0
8,0	469,0
9,0	436,0
10,0	396,0
11,0	360,0
12,0	329,0
14,0	276,0
16,0	237,0
18,0	207,0
20,0	183,0
22,0	164,0
24,0	148,0
26,0	135,0
*** n ***	46
m/s	14,3

m > < t

CODE >0022<

B154 0100

	S 28m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
28m	

073806 *** 020 22.00

m	28,0
6,5	532,0
7,0	510,0
8,0	471,0
9,0	437,0
10,0	408,0
11,0	371,0
12,0	340,0
14,0	287,0
16,0	247,0
18,0	215,0
20,0	191,0
22,0	171,0
24,0	154,0
26,0	141,0
*** n ***	46
m/s	14,3

m > < t

CODE >0021<

B154 0100

	S 28m	--	245 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 010 22.00

m > < t CODE >0060< B154 0200

m	35,0
7,0	241,0
8,0	188,0
9,0	153,0
10,0	127,0
11,0	107,0
12,0	92,0
14,0	70,0
16,0	54,0
18,0	43,0
20,0	34,5
22,0	27,8
24,0	22,4
26,0	18,0
28,0	14,4
30,0	11,4
32,0	8,9
*** n ***	17
m/s	14,3

S 35m	--	20 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 009 22.00

m > < t CODE >0059< B154 0200

m	35,0
7,0	378,0
8,0	298,0
9,0	245,0
10,0	206,0
11,0	177,0
12,0	155,0
14,0	122,0
16,0	99,0
18,0	81,0
20,0	69,0
22,0	58,0
24,0	50,0
26,0	43,0
28,0	37,0
30,0	32,0
32,0	27,7
*** n ***	29
m/s	14,3

S 35m	--	45 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 008 22.00

m	35,0
7,0	453,0
8,0	359,0
9,0	296,0
10,0	250,0
11,0	216,0
12,0	189,0
14,0	150,0
16,0	123,0
18,0	103,0
20,0	87,0
22,0	75,0
24,0	64,0
26,0	55,0
28,0	48,0
30,0	42,0
32,0	37,5
*** n ***	37
m/s	14,3

m > < t

CODE >0058<

B154 0200

	S 35m	--	
70 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 007 22.00

m > < t CODE >0057< B154 0200

m	35,0
7,0	480,0
8,0	420,0
9,0	347,0
10,0	294,0
11,0	255,0
12,0	223,0
14,0	178,0
16,0	147,0
18,0	123,0
20,0	106,0
22,0	91,0
24,0	78,0
26,0	68,0
28,0	59,0
30,0	53,0
32,0	47,0
*** n ***	40
m/s	14,3

S 35m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 006 22.00

m	35,0
7,0	496,0
8,0	435,0
9,0	384,0
10,0	338,0
11,0	293,0
12,0	258,0
14,0	206,0
16,0	171,0
18,0	144,0
20,0	124,0
22,0	106,0
24,0	91,0
26,0	80,0
28,0	71,0
30,0	63,0
32,0	56,0
*** n ***	42
m/s	14,3

m > < t

CODE >0056<

B154 0200

S 35m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 005 22.00

m > < t CODE >0055< B154 0200

m	35,0
7,0	511,0
8,0	449,0
9,0	400,0
10,0	356,0
11,0	319,0
12,0	288,0
14,0	234,0
16,0	195,0
18,0	165,0
20,0	142,0
22,0	121,0
24,0	105,0
26,0	92,0
28,0	82,0
30,0	73,0
32,0	66,0
*** n ***	43
m/s	14,3

S 35m	--	145 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 004 22.00

m > < t CODE >0054< B154 0200

m	35,0
7,0	527,0
8,0	463,0
9,0	412,0
10,0	371,0
11,0	333,0
12,0	301,0
14,0	252,0
16,0	216,0
18,0	186,0
20,0	160,0
22,0	136,0
24,0	119,0
26,0	104,0
28,0	93,0
30,0	83,0
32,0	75,0
*** n ***	45
m/s	14,3

	S 35m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 003 22.00

m > < t CODE >0053< B154 0200

m	35,0
7,0	543,0
8,0	477,0
9,0	425,0
10,0	383,0
11,0	347,0
12,0	314,0
14,0	263,0
16,0	225,0
18,0	197,0
20,0	174,0
22,0	152,0
24,0	132,0
26,0	117,0
28,0	104,0
30,0	93,0
32,0	84,0
*** n ***	47
m/s	14,3

S 35m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 002 22.00

m > < t CODE >0052< B154 0200

m	35,0
7,0	559,0
8,0	491,0
9,0	437,0
10,0	394,0
11,0	358,0
12,0	327,0
14,0	274,0
16,0	235,0
18,0	205,0
20,0	181,0
22,0	162,0
24,0	146,0
26,0	129,0
28,0	115,0
30,0	104,0
32,0	94,0
*** n ***	49
m/s	14,3

S 35m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 001 22.00

m > < t CODE >0051< B154 0200

m	35,0
7,0	574,0
8,0	505,0
9,0	450,0
10,0	405,0
11,0	368,0
12,0	337,0
14,0	285,0
16,0	244,0
18,0	213,0
20,0	189,0
22,0	169,0
24,0	152,0
26,0	138,0
28,0	126,0
30,0	114,0
32,0	103,0
*** n ***	51
m/s	14,3

S 35m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
35m	

073806 *** 029 22.00

m > < t CODE >0050< B154 0200

m	35,0
7,0	394,0
8,0	340,0
9,0	298,0
10,0	245,0
11,0	200,0
12,0	168,0
14,0	125,0
16,0	97,0
18,0	78,0
20,0	64,0
22,0	53,0
24,0	44,5
26,0	37,5
28,0	32,0
30,0	27,2
32,0	22,8
*** n ***	31
m/s	14,3

S 35m	--	20 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 028 22.00

m	35,0
7,0	439,0
8,0	380,0
9,0	332,0
10,0	293,0
11,0	262,0
12,0	237,0
14,0	197,0
16,0	156,0
18,0	128,0
20,0	108,0
22,0	92,0
24,0	78,0
26,0	67,0
28,0	58,0
30,0	50,0
32,0	44,0
*** n ***	35
m/s	14,3

m > < t

CODE >0049<

B154 0200

	S 35m	--	
45 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 027 22.00

m	35,0
7,0	464,0
8,0	400,0
9,0	349,0
10,0	309,0
11,0	276,0
12,0	250,0
14,0	208,0
16,0	178,0
18,0	155,0
20,0	132,0
22,0	112,0
24,0	95,0
26,0	82,0
28,0	72,0
30,0	63,0
32,0	56,0
*** n ***	38
m/s	14,3

m > < t

CODE >0048<

B154 0200

	S 35m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 026 22.00

m > < t CODE >0047< B154 0200

m	35,0
7,0	480,0
8,0	420,0
9,0	366,0
10,0	324,0
11,0	290,0
12,0	263,0
14,0	219,0
16,0	187,0
18,0	163,0
20,0	144,0
22,0	128,0
24,0	113,0
26,0	98,0
28,0	86,0
30,0	76,0
32,0	68,0
*** n ***	40
m/s	14,3

S 35m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 025 22.00

m > < t CODE >0046< B154 0200

m	35,0
7,0	496,0
8,0	435,0
9,0	384,0
10,0	340,0
11,0	305,0
12,0	275,0
14,0	230,0
16,0	197,0
18,0	171,0
20,0	151,0
22,0	135,0
24,0	121,0
26,0	110,0
28,0	100,0
30,0	89,0
32,0	79,0
*** n ***	42
m/s	14,3

S 35m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 024 22.00

m > < t CODE >0045< B154 0200

m	35,0
7,0	498,0
8,0	449,0
9,0	400,0
10,0	356,0
11,0	319,0
12,0	288,0
14,0	241,0
16,0	206,0
18,0	180,0
20,0	159,0
22,0	141,0
24,0	127,0
26,0	115,0
28,0	105,0
30,0	97,0
32,0	89,0
*** n ***	42
m/s	14,3

S 35m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 023 22.00

m > < t CODE >0044< B154 0200

m	35,0
7,0	500,0
8,0	462,0
9,0	412,0
10,0	371,0
11,0	333,0
12,0	301,0
14,0	252,0
16,0	216,0
18,0	188,0
20,0	166,0
22,0	148,0
24,0	134,0
26,0	121,0
28,0	111,0
30,0	102,0
32,0	94,0
*** n ***	42
m/s	14,3

S 35m	--	170 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
35m	

073806 *** 022 22.00

m > < t CODE >0043< B154 0200

m	35,0
7,0	502,0
8,0	463,0
9,0	425,0
10,0	383,0
11,0	347,0
12,0	314,0
14,0	263,0
16,0	225,0
18,0	196,0
20,0	174,0
22,0	155,0
24,0	140,0
26,0	127,0
28,0	116,0
30,0	107,0
32,0	98,0
*** n ***	42
m/s	14,3

S 35m	--	195 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 021 22.00

m > < t CODE >0042< B154 0200

m	35,0
7,0	504,0
8,0	465,0
9,0	432,0
10,0	394,0
11,0	358,0
12,0	327,0
14,0	274,0
16,0	235,0
18,0	205,0
20,0	181,0
22,0	162,0
24,0	146,0
26,0	133,0
28,0	121,0
30,0	111,0
32,0	103,0
*** n ***	43
m/s	14,3

S 35m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
35m	

073806 *** 020 22.00

m > < t CODE >0041< B154 0200

m	35,0
7,0	506,0
8,0	467,0
9,0	434,0
10,0	404,0
11,0	368,0
12,0	337,0
14,0	285,0
16,0	244,0
18,0	213,0
20,0	189,0
22,0	169,0
24,0	152,0
26,0	138,0
28,0	127,0
30,0	116,0
32,0	108,0
*** n ***	43
m/s	14,3

S 35m	--	245 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 010 22.00

m > < t CODE >0080< B154 0300

m	42,0
8,0	166,0
9,0	137,0
10,0	114,0
11,0	97,0
12,0	83,0
14,0	63,0
16,0	49,0
18,0	38,5
20,0	30,5
22,0	24,0
24,0	18,8
26,0	14,5
28,0	11,0
30,0	8,0
32,0	5,4
34,0	3,3
*** n ***	12
m/s	14,3

S 8) 42m	--	20 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 42m	

073806 *** 009 22.00

m > < t CODE >0079< B154 0300

m	42,0
8,0	265,0
9,0	221,0
10,0	188,0
11,0	162,0
12,0	142,0
14,0	112,0
16,0	91,0
18,0	75,0
20,0	63,0
22,0	53,0
24,0	45,5
26,0	39,0
28,0	33,5
30,0	29,0
32,0	25,2
34,0	21,8
36,0	18,8
38,0	16,0
40,0	13,6
*** n ***	19
m/s	14,3

S 8) 42m	--	45 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 008 22.00

m > < t CODE >0078< B154 0300

m	42,0
8,0	320,0
9,0	267,0
10,0	228,0
11,0	198,0
12,0	174,0
14,0	139,0
16,0	114,0
18,0	95,0
20,0	81,0
22,0	70,0
24,0	60,0
26,0	53,0
28,0	46,0
30,0	40,5
32,0	35,5
34,0	31,5
36,0	27,7
38,0	24,3
40,0	21,4
*** n ***	24
m/s	14,3

S 8) 42m	--	70 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 007 22.00

m > < t CODE >0077< B154 0300

m	42,0
8,0	375,0
9,0	314,0
10,0	269,0
11,0	234,0
12,0	207,0
14,0	166,0
16,0	137,0
18,0	115,0
20,0	99,0
22,0	86,0
24,0	75,0
26,0	66,0
28,0	58,0
30,0	51,0
32,0	45,0
34,0	40,5
36,0	36,0
38,0	32,5
40,0	29,2
*** n ***	29
m/s	14,3

S 8) 42m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 006 22.00

m > < t CODE >0076< B154 0300

m	42,0
8,0	430,0
9,0	361,0
10,0	309,0
11,0	270,0
12,0	239,0
14,0	193,0
16,0	160,0
18,0	135,0
20,0	117,0
22,0	102,0
24,0	89,0
26,0	79,0
28,0	69,0
30,0	61,0
32,0	55,0
34,0	49,0
36,0	44,0
38,0	40,0
40,0	36,5
*** n ***	34
m/s	14,3

S 8) 42m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 005 22.00

m	42,0
8,0	447,0
9,0	398,0
10,0	350,0
11,0	306,0
12,0	271,0
14,0	219,0
16,0	183,0
18,0	155,0
20,0	134,0
22,0	118,0
24,0	104,0
26,0	91,0
28,0	80,0
30,0	71,0
32,0	64,0
34,0	58,0
36,0	52,0
38,0	48,0
40,0	43,5
*** n ***	36
m/s	14,3

m > < t

CODE >0075<

B154 0300

	S 8) 42m	--	
145 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 42m	

073806 *** 004 22.00

m > < t CODE >0074< B154 0300

m	42,0
8,0	461,0
9,0	410,0
10,0	369,0
11,0	331,0
12,0	299,0
14,0	246,0
16,0	205,0
18,0	175,0
20,0	152,0
22,0	134,0
24,0	117,0
26,0	103,0
28,0	91,0
30,0	82,0
32,0	73,0
34,0	67,0
36,0	61,0
38,0	55,0
40,0	51,0
*** n ***	38
m/s	14,3

S 8) 42m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 003 22.00

m > < t CODE >0073< B154 0300

m	42,0
8,0	475,0
9,0	423,0
10,0	380,0
11,0	345,0
12,0	312,0
14,0	261,0
16,0	223,0
18,0	195,0
20,0	170,0
22,0	149,0
24,0	131,0
26,0	115,0
28,0	102,0
30,0	92,0
32,0	83,0
34,0	75,0
36,0	69,0
38,0	63,0
40,0	58,0
*** n ***	39
m/s	14,3

S 8) 42m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 002 22.00

m > < t CODE >0072< B154 0300

m	42,0
8,0	489,0
9,0	435,0
10,0	392,0
11,0	356,0
12,0	325,0
14,0	272,0
16,0	233,0
18,0	203,0
20,0	179,0
22,0	160,0
24,0	144,0
26,0	128,0
28,0	114,0
30,0	102,0
32,0	92,0
34,0	84,0
36,0	77,0
38,0	71,0
40,0	65,0
*** n ***	41
m/s	14,3

S 8) 42m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 001 22.00

m > < t CODE >0071< B154 0300

m	42,0
8,0	503,0
9,0	448,0
10,0	403,0
11,0	366,0
12,0	335,0
14,0	283,0
16,0	242,0
18,0	211,0
20,0	187,0
22,0	167,0
24,0	150,0
26,0	136,0
28,0	124,0
30,0	112,0
32,0	102,0
34,0	93,0
36,0	85,0
38,0	78,0
40,0	73,0
*** n ***	42
m/s	14,3

S 8) 42m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 029 22.00

m > < t CODE >0070< B154 0300

m	42,0
8,0	332,0
9,0	271,0
10,0	218,0
11,0	181,0
12,0	153,0
14,0	115,0
16,0	90,0
18,0	72,0
20,0	59,0
22,0	48,5
24,0	40,0
26,0	33,5
28,0	28,3
30,0	23,7
32,0	20,0
34,0	16,7
36,0	14,0
38,0	11,7
40,0	9,4
*** n ***	25
m/s	14,3

S 8) 42m	--	20 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 028 22.00

m > < t CODE >0069< B154 0300

m	42,0
8,0	371,0
9,0	326,0
10,0	290,0
11,0	260,0
12,0	235,0
14,0	182,0
16,0	146,0
18,0	120,0
20,0	100,0
22,0	86,0
24,0	74,0
26,0	64,0
28,0	56,0
30,0	49,0
32,0	43,0
34,0	38,0
36,0	33,5
38,0	29,7
40,0	26,3
* n *	29
m/s	14,3

S 8) 42m	--	45 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 027 22.00

m > < t CODE >0068< B154 0300

m	42,0
8,0	393,0
9,0	345,0
10,0	307,0
11,0	274,0
12,0	248,0
14,0	206,0
16,0	176,0
18,0	146,0
20,0	124,0
22,0	106,0
24,0	92,0
26,0	81,0
28,0	71,0
30,0	62,0
32,0	55,0
34,0	48,5
36,0	43,5
38,0	39,0
40,0	35,5
*** n ***	31
m/s	14,3

S 8) 42m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 026 22.00

m	42,0
8,0	415,0
9,0	365,0
10,0	322,0
11,0	289,0
12,0	261,0
14,0	217,0
16,0	185,0
18,0	161,0
20,0	142,0
22,0	126,0
24,0	111,0
26,0	97,0
28,0	85,0
30,0	75,0
32,0	66,0
34,0	59,0
36,0	54,0
38,0	48,5
40,0	44,0
*** n ***	33
m/s	14,3

m > < t

CODE >0067<

B154 0300

	S 8) 42m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 025 22.00

m > < t CODE >0066< B154 0300

m	42,0
8,0	433,0
9,0	382,0
10,0	338,0
11,0	303,0
12,0	273,0
14,0	228,0
16,0	195,0
18,0	169,0
20,0	149,0
22,0	133,0
24,0	119,0
26,0	108,0
28,0	98,0
30,0	87,0
32,0	78,0
34,0	70,0
36,0	64,0
38,0	58,0
40,0	53,0
*** n ***	35
m/s	14,3

	S 8) 42m	--	120 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 42m	

073806 *** 024 22.00

m > < t CODE >0065< B154 0300

m	42,0
8,0	447,0
9,0	398,0
10,0	354,0
11,0	317,0
12,0	286,0
14,0	239,0
16,0	204,0
18,0	178,0
20,0	157,0
22,0	139,0
24,0	125,0
26,0	113,0
28,0	103,0
30,0	94,0
32,0	87,0
34,0	80,0
36,0	74,0
38,0	67,0
40,0	62,0
* n *	36
m/s	14,3

S 8) 42m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 023 22.00

m > < t CODE >0064< B154 0300

m	42,0
8,0	458,0
9,0	410,0
10,0	369,0
11,0	331,0
12,0	299,0
14,0	250,0
16,0	214,0
18,0	186,0
20,0	164,0
22,0	146,0
24,0	131,0
26,0	119,0
28,0	108,0
30,0	99,0
32,0	92,0
34,0	85,0
36,0	79,0
38,0	73,0
40,0	69,0
*** n ***	37
m/s	14,3

S 8) 42m	--	170 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 022 22.00

m	42,0
8,0	460,0
9,0	423,0
10,0	380,0
11,0	345,0
12,0	312,0
14,0	261,0
16,0	223,0
18,0	194,0
20,0	172,0
22,0	153,0
24,0	138,0
26,0	125,0
28,0	114,0
30,0	104,0
32,0	96,0
34,0	89,0
36,0	83,0
38,0	77,0
40,0	72,0
*** n ***	38
m/s	14,3

m > < t CODE >0063< B154 0300

S 8) 42m	--	195 t	16.0 x 16.0 m
360°			

ISO DIN

S	--
8) 42m	

073806 *** 021 22.00

m > < t CODE >0062< B154 0300

m	42,0
8,0	462,0
9,0	429,0
10,0	392,0
11,0	356,0
12,0	325,0
14,0	272,0
16,0	233,0
18,0	203,0
20,0	179,0
22,0	160,0
24,0	144,0
26,0	131,0
28,0	119,0
30,0	109,0
32,0	101,0
34,0	93,0
36,0	87,0
38,0	81,0
40,0	74,0
*** n ***	38
m/s	14,3

S 8) 42m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 42m	

073806 *** 020 22.00

m	42,0
8,0	464,0
9,0	430,0
10,0	401,0
11,0	366,0
12,0	335,0
14,0	283,0
16,0	242,0
18,0	211,0
20,0	187,0
22,0	167,0
24,0	150,0
26,0	136,0
28,0	124,0
30,0	114,0
32,0	105,0
34,0	98,0
36,0	91,0
38,0	85,0
40,0	74,0
*** n ***	38
m/s	14,3

m > < t

CODE >0061<

B154 0300

S	--	245 t	16.0 x 16.0 m
8) 42m			360°

ISO DIN

S	--
8) 49m	

073806 *** 010 22.00

m	49,0	m > < t	CODE >0100<	B154 0400
8,0	148,0			
9,0	122,0			
10,0	103,0			
11,0	87,0			
12,0	75,0			
14,0	57,0			
16,0	43,5			
18,0	33,5			
20,0	25,7			
22,0	19,5			
24,0	14,5			
26,0	10,4			
28,0	6,9			
30,0	4,0			
*** n ***	10			
m/s	14,3			

	S 8) 49m	--	20 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 009 22.00

m > < t CODE >0099< B154 0400

m	49,0
8,0	237,0
9,0	200,0
10,0	171,0
11,0	148,0
12,0	130,0
14,0	103,0
16,0	83,0
18,0	69,0
20,0	57,0
22,0	48,0
24,0	40,5
26,0	34,0
28,0	28,8
30,0	24,4
32,0	20,5
34,0	17,3
36,0	14,4
38,0	11,9
40,0	9,8
44,0	6,3
*** n ***	17
m/s	14,3

S 8) 49m	--	45 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 008 22.00

m	49,0
8,0	287,0
9,0	243,0
10,0	209,0
11,0	182,0
12,0	161,0
14,0	129,0
16,0	105,0
18,0	88,0
20,0	74,0
22,0	64,0
24,0	55,0
26,0	47,0
28,0	41,0
30,0	35,5
32,0	31,0
34,0	27,2
36,0	23,8
38,0	20,8
40,0	18,2
44,0	13,6
*** n ***	21
m/s	14,3

m > < t

CODE >0098<

B154 0400

	S 8) 49m	--	70 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 007 22.00

m > < t CODE >0097< B154 0400

m	49,0
8,0	337,0
9,0	285,0
10,0	246,0
11,0	216,0
12,0	191,0
14,0	154,0
16,0	127,0
18,0	107,0
20,0	92,0
22,0	79,0
24,0	69,0
26,0	60,0
28,0	53,0
30,0	47,0
32,0	41,5
34,0	37,0
36,0	33,0
38,0	29,8
40,0	26,3
44,0	20,6
*** n ***	25
m/s	14,3

S 8) 49m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 006 22.00

m > < t CODE >0096< B154 0400

m	49,0
8,0	387,0
9,0	328,0
10,0	284,0
11,0	249,0
12,0	222,0
14,0	179,0
16,0	149,0
18,0	126,0
20,0	109,0
22,0	95,0
24,0	83,0
26,0	73,0
28,0	65,0
30,0	58,0
32,0	52,0
34,0	46,5
36,0	42,0
38,0	37,5
40,0	34,0
44,0	27,5
*** n ***	30
m/s	14,3

	S 8) 49m	--	120 t	12.0 x 12.0 m	360°		

ISO DIN

S	--
8) 49m	

073806 *** 005 22.00

m > < t CODE >0095< B154 0400

m	49,0
8,0	436,0
9,0	371,0
10,0	322,0
11,0	283,0
12,0	252,0
14,0	205,0
16,0	171,0
18,0	146,0
20,0	126,0
22,0	110,0
24,0	97,0
26,0	86,0
28,0	77,0
30,0	69,0
32,0	62,0
34,0	55,0
36,0	50,0
38,0	45,5
40,0	41,0
44,0	34,5
*** n ***	35
m/s	14,3

S 8) 49m	--	145 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 004 22.00

m > < t CODE >0094< B154 0400

m	49,0
8,0	458,0
9,0	407,0
10,0	359,0
11,0	316,0
12,0	282,0
14,0	230,0
16,0	193,0
18,0	165,0
20,0	143,0
22,0	125,0
24,0	111,0
26,0	99,0
28,0	89,0
30,0	80,0
32,0	71,0
34,0	64,0
36,0	58,0
38,0	53,0
40,0	48,5
44,0	41,0
* n *	37
m/s	14,3

S 8) 49m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 003 22.00

m > < t CODE >0093< B154 0400

m	49,0
8,0	472,0
9,0	420,0
10,0	377,0
11,0	342,0
12,0	309,0
14,0	255,0
16,0	215,0
18,0	184,0
20,0	160,0
22,0	141,0
24,0	125,0
26,0	112,0
28,0	100,0
30,0	90,0
32,0	81,0
34,0	73,0
36,0	66,0
38,0	61,0
40,0	56,0
44,0	47,0
*** n ***	39
m/s	14,3

S	--	195	12.0 x 12.0	360°
8) 49m		t	m	

ISO DIN

S	--
8) 49m	

073806 *** 002 22.00

m	49,0
8,0	486,0
9,0	432,0
10,0	389,0
11,0	353,0
12,0	322,0
14,0	269,0
16,0	230,0
18,0	200,0
20,0	176,0
22,0	156,0
24,0	139,0
26,0	125,0
28,0	112,0
30,0	100,0
32,0	90,0
34,0	82,0
36,0	75,0
38,0	68,0
40,0	63,0
44,0	54,0
*** n ***	41
m/s	14,3

m > < t

CODE >0092<

B154 0400

	S 8) 49m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 001 22.00

m	49,0
8,0	500,0
9,0	445,0
10,0	400,0
11,0	363,0
12,0	332,0
14,0	280,0
16,0	240,0
18,0	209,0
20,0	184,0
22,0	164,0
24,0	147,0
26,0	134,0
28,0	122,0
30,0	110,0
32,0	100,0
34,0	90,0
36,0	83,0
38,0	76,0
40,0	70,0
44,0	60,0
*** n ***	42
m/s	14,3

m > < t

CODE >0091<

B154 0400

	S 8) 49m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 029 22.00

m	49,0
8,0	304,0
9,0	239,0
10,0	195,0
11,0	164,0
12,0	139,0
14,0	105,0
16,0	82,0
18,0	65,0
20,0	53,0
22,0	43,5
24,0	35,5
26,0	29,2
28,0	23,9
30,0	19,5
32,0	15,7
34,0	12,5
36,0	9,8
38,0	7,4
40,0	5,3
*** n ***	23
m/s	14,3

m > < t

CODE >0090<

B154 0400

S	--	20 t	16.0 x 16.0 m
8) 49m			360°

ISO DIN

S	--
8) 49m	

073806 *** 028 22.00

m > < t CODE >0089< B154 0400

m	49,0
8,0	362,0
9,0	318,0
10,0	283,0
11,0	253,0
12,0	218,0
14,0	168,0
16,0	135,0
18,0	111,0
20,0	93,0
22,0	79,0
24,0	68,0
26,0	59,0
28,0	51,0
30,0	44,5
32,0	39,0
34,0	34,5
36,0	30,5
38,0	26,9
40,0	23,6
44,0	17,8
*** n ***	28
m/s	14,3

S 8) 49m	--	45 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 027 22.00

m > < t CODE >0088< B154 0400

m	49,0
8,0	383,0
9,0	337,0
10,0	300,0
11,0	269,0
12,0	244,0
14,0	204,0
16,0	165,0
18,0	137,0
20,0	115,0
22,0	99,0
24,0	86,0
26,0	75,0
28,0	66,0
30,0	59,0
32,0	52,0
34,0	46,5
36,0	41,5
38,0	37,0
40,0	33,0
44,0	26,2
* n *	30
m/s	14,3

	S 8) 49m	--	70 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 49m	

073806 *** 026 22.00

m	49,0
8,0	405,0
9,0	356,0
10,0	317,0
11,0	285,0
12,0	258,0
14,0	215,0
16,0	183,0
18,0	158,0
20,0	138,0
22,0	119,0
24,0	104,0
26,0	91,0
28,0	81,0
30,0	73,0
32,0	64,0
34,0	57,0
36,0	51,0
38,0	46,0
40,0	42,0
44,0	34,5
*** n ***	32
m/s	14,3

m > < t

CODE >0087<

B154 0400

	S 8) 49m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 025 22.00

m > < t CODE >0086< B154 0400

m	49,0
8,0	427,0
9,0	375,0
10,0	334,0
11,0	300,0
12,0	271,0
14,0	226,0
16,0	192,0
18,0	167,0
20,0	146,0
22,0	130,0
24,0	116,0
26,0	105,0
28,0	95,0
30,0	86,0
32,0	76,0
34,0	68,0
36,0	61,0
38,0	56,0
40,0	51,0
44,0	42,5
* n *	34
m/s	14,3

S 8) 49m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 024 22.00

m > < t CODE >0085< B154 0400

m	49,0
8,0	444,0
9,0	395,0
10,0	351,0
11,0	314,0
12,0	284,0
14,0	237,0
16,0	202,0
18,0	175,0
20,0	154,0
22,0	137,0
24,0	122,0
26,0	111,0
28,0	100,0
30,0	92,0
32,0	84,0
34,0	77,0
36,0	71,0
38,0	65,0
40,0	59,0
44,0	50,0
*** n ***	36
m/s	14,3

S 8) 49m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 023 22.00

m	49,0
8,0	454,0
9,0	407,0
10,0	366,0
11,0	328,0
12,0	297,0
14,0	247,0
16,0	211,0
18,0	183,0
20,0	161,0
22,0	144,0
24,0	129,0
26,0	116,0
28,0	106,0
30,0	97,0
32,0	89,0
34,0	82,0
36,0	76,0
38,0	70,0
40,0	65,0
44,0	57,0
*** n ***	37
m/s	14,3

m > < t

CODE >0084<

B154 0400

	S 8) 49m	--	170 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 49m	

073806 *** 022 22.00

m	49,0
8,0	456,0
9,0	420,0
10,0	377,0
11,0	342,0
12,0	309,0
14,0	258,0
16,0	221,0
18,0	192,0
20,0	169,0
22,0	150,0
24,0	135,0
26,0	122,0
28,0	111,0
30,0	102,0
32,0	93,0
34,0	86,0
36,0	80,0
38,0	74,0
40,0	69,0
44,0	61,0
*** n ***	37
m/s	14,3

m > < t

CODE >0083<

B154 0400

	S 8) 49m	--	195 t	16.0 x 16.0 m	360°		

ISO DIN

S	--
8) 49m	

073806 *** 021 22.00

m	49,0
8,0	458,0
9,0	425,0
10,0	389,0
11,0	353,0
12,0	322,0
14,0	269,0
16,0	230,0
18,0	200,0
20,0	176,0
22,0	157,0
24,0	141,0
26,0	128,0
28,0	116,0
30,0	106,0
32,0	98,0
34,0	90,0
36,0	84,0
38,0	78,0
40,0	73,0
44,0	64,0
*** n ***	37
m/s	14,3

m > < t

CODE >0082<

B154 0400

S	--	220 t	16.0 x 16.0 m	360°
8) 49m				

ISO DIN

S	--
8) 49m	

073806 *** 020 22.00

m	49,0
8,0	460,0
9,0	427,0
10,0	397,0
11,0	363,0
12,0	332,0
14,0	280,0
16,0	240,0
18,0	209,0
20,0	184,0
22,0	164,0
24,0	147,0
26,0	133,0
28,0	122,0
30,0	111,0
32,0	103,0
34,0	95,0
36,0	88,0
38,0	82,0
40,0	77,0
44,0	66,0
*** n ***	38
m/s	14,3

m > < t

CODE >0081<

B154 0400

	S 8) 49m	--	245 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 010 22.00

m	56,0
9,0	110,0
10,0	92,0
11,0	79,0
12,0	68,0
14,0	51,0
16,0	38,5
18,0	29,0
20,0	21,7
22,0	15,8
24,0	11,0
26,0	7,0
28,0	3,6
*** n ***	8
m/s	14,3

m > < t

CODE >0120<

B154 0500

	S 8) 56m	--	
20 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 56m	

073806 *** 009 22.00

m > < t CODE >0119< B154 0500

m	56,0
9,0	182,0
10,0	156,0
11,0	136,0
12,0	120,0
14,0	95,0
16,0	77,0
18,0	63,0
20,0	52,0
22,0	43,0
24,0	36,0
26,0	30,0
28,0	24,9
30,0	20,6
32,0	16,8
34,0	13,6
36,0	10,7
38,0	8,2
40,0	6,0
*** n ***	13
m/s	14,3

	S 8) 56m	--	45 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 56m	

073806 *** 008 22.00

m > < t CODE >0118< B154 0500

m	56,0
9,0	221,0
10,0	192,0
11,0	168,0
12,0	149,0
14,0	119,0
16,0	98,0
18,0	82,0
20,0	69,0
22,0	58,0
24,0	50,0
26,0	43,0
28,0	36,5
30,0	31,5
32,0	27,1
34,0	23,3
36,0	19,9
38,0	16,9
40,0	14,3
44,0	9,9
48,0	6,6
52,0	4,1
*** n ***	16
m/s	14,3

S	--	70	12.0 x 12.0	360°
8) 56m		t	m	

ISO DIN

S	--
8) 56m	

073806 *** 007 22.00

m > < t CODE >0117< B154 0500

m	56,0
9,0	261,0
10,0	227,0
11,0	200,0
12,0	178,0
14,0	144,0
16,0	119,0
18,0	100,0
20,0	85,0
22,0	73,0
24,0	64,0
26,0	55,0
28,0	48,5
30,0	42,5
32,0	37,5
34,0	33,0
36,0	29,1
38,0	25,6
40,0	22,6
44,0	17,5
48,0	13,5
52,0	9,9
*** n ***	19
m/s	14,3

S	--	95 t	12.0 x 12.0 m	360°
8) 56m				

ISO DIN

S	--
8) 56m	

073806 *** 006 22.00

m > < t CODE >0116< B154 0500

m	56,0
9,0	301,0
10,0	262,0
11,0	231,0
12,0	206,0
14,0	168,0
16,0	140,0
18,0	119,0
20,0	102,0
22,0	88,0
24,0	77,0
26,0	68,0
28,0	60,0
30,0	53,0
32,0	47,5
34,0	42,5
36,0	38,0
38,0	34,0
40,0	31,0
44,0	25,0
48,0	19,7
52,0	15,7
*** n ***	22
m/s	14,3

S	--	120	12.0 x 12.0	360°
8) 56m		t	m	

ISO DIN

S	--
8) 56m	

073806 *** 005 22.00

m > < t CODE >0115< B154 0500

m	56,0
9,0	340,0
10,0	297,0
11,0	263,0
12,0	235,0
14,0	192,0
16,0	161,0
18,0	137,0
20,0	118,0
22,0	103,0
24,0	91,0
26,0	81,0
28,0	72,0
30,0	64,0
32,0	58,0
34,0	52,0
36,0	47,0
38,0	43,0
40,0	39,0
44,0	32,0
48,0	26,0
52,0	21,3
*** n ***	26
m/s	14,3

S	--	145	12.0 x 12.0	360°
8) 56m		t	m	

ISO DIN

S	--
8) 56m	

073806 *** 004 22.00

m > < t CODE >0114< B154 0500

m	56,0
9,0	380,0
10,0	332,0
11,0	294,0
12,0	264,0
14,0	216,0
16,0	182,0
18,0	156,0
20,0	135,0
22,0	118,0
24,0	105,0
26,0	93,0
28,0	83,0
30,0	75,0
32,0	68,0
34,0	62,0
36,0	56,0
38,0	51,0
40,0	46,5
44,0	38,5
48,0	32,0
52,0	27,0
* n *	29
m/s	14,3

S 8) 56m	--	170 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 56m	

073806 *** 003 22.00

m > < t CODE >0113< B154 0500

m	56,0
9,0	417,0
10,0	367,0
11,0	326,0
12,0	292,0
14,0	240,0
16,0	203,0
18,0	174,0
20,0	151,0
22,0	133,0
24,0	118,0
26,0	106,0
28,0	95,0
30,0	86,0
32,0	78,0
34,0	71,0
36,0	64,0
38,0	59,0
40,0	54,0
44,0	45,0
48,0	38,5
52,0	32,5
*** n ***	33
m/s	14,3

S	--	195	12.0 x 12.0	360°
8) 56m		t	m	

ISO DIN

S	--
8) 56m	

073806 *** 002 22.00

m > < t CODE >0112< B154 0500

m	56,0
9,0	430,0
10,0	386,0
11,0	350,0
12,0	320,0
14,0	264,0
16,0	223,0
18,0	192,0
20,0	168,0
22,0	148,0
24,0	132,0
26,0	118,0
28,0	107,0
30,0	97,0
32,0	88,0
34,0	80,0
36,0	73,0
38,0	66,0
40,0	61,0
44,0	51,0
48,0	44,0
52,0	38,5
*** n ***	34
m/s	14,3

S	--	220	12.0 x 12.0	360°
8) 56m		t	m	

ISO DIN

S	--
8) 56m	

073806 *** 001 22.00

m > < t CODE >0111< B154 0500

m	56,0
9,0	442,0
10,0	398,0
11,0	361,0
12,0	330,0
14,0	278,0
16,0	238,0
18,0	207,0
20,0	182,0
22,0	162,0
24,0	145,0
26,0	131,0
28,0	118,0
30,0	108,0
32,0	98,0
34,0	89,0
36,0	81,0
38,0	74,0
40,0	68,0
44,0	58,0
48,0	50,0
52,0	43,5
*** n ***	36
m/s	14,3

S 8) 56m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 029 22.00

m > < t CODE >0110< B154 0500

m	56,0
9,0	163,0
10,0	163,0
11,0	149,0
12,0	127,0
14,0	97,0
16,0	75,0
18,0	60,0
20,0	48,0
22,0	39,0
24,0	31,5
26,0	25,4
28,0	20,3
30,0	16,0
32,0	12,3
34,0	9,1
36,0	6,4
38,0	4,0
*** n ***	11
m/s	14,3

S	--	20 t	16.0 x 16.0 m	360°
8) 56m				

ISO DIN

S	--
8) 56m	

073806 *** 028 22.00

m > < t CODE >0109< B154 0500

m	56,0
9,0	310,0
10,0	271,0
11,0	232,0
12,0	201,0
14,0	157,0
16,0	126,0
18,0	104,0
20,0	87,0
22,0	74,0
24,0	63,0
26,0	54,0
28,0	46,5
30,0	40,5
32,0	35,0
34,0	30,5
36,0	26,4
38,0	22,9
40,0	19,9
44,0	14,8
48,0	10,8
52,0	7,4
*** n ***	23
m/s	14,3

S	--	45 t	16.0 x 16.0 m	360°
8) 56m				

ISO DIN

S	--
8) 56m	

073806 *** 027 22.00

m > < t CODE >0108< B154 0500

m	56,0
9,0	329,0
10,0	293,0
11,0	263,0
12,0	238,0
14,0	190,0
16,0	154,0
18,0	128,0
20,0	108,0
22,0	93,0
24,0	80,0
26,0	70,0
28,0	61,0
30,0	54,0
32,0	47,5
34,0	42,5
36,0	37,5
38,0	33,5
40,0	29,8
44,0	23,8
48,0	18,4
52,0	14,3
* n *	25
m/s	14,3

S	--	70	16.0 x	360°
8) 56m		t	16.0 m	

ISO DIN

S	--
8) 56m	

073806 *** 026 22.00

m > < t CODE >0107< B154 0500

m	56,0
9,0	347,0
10,0	310,0
11,0	279,0
12,0	253,0
14,0	211,0
16,0	180,0
18,0	152,0
20,0	130,0
22,0	112,0
24,0	98,0
26,0	86,0
28,0	76,0
30,0	68,0
32,0	60,0
34,0	54,0
36,0	48,5
38,0	44,0
40,0	40,0
44,0	32,0
48,0	25,9
52,0	21,1
*** n ***	26
m/s	14,3

S 8) 56m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 025 22.00

m > < t CODE >0106< B154 0500

m	56,0
9,0	366,0
10,0	327,0
11,0	294,0
12,0	267,0
14,0	224,0
16,0	190,0
18,0	165,0
20,0	144,0
22,0	128,0
24,0	114,0
26,0	102,0
28,0	91,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,5
44,0	40,0
48,0	33,5
52,0	27,9
*** n ***	28
m/s	14,3

S 8) 56m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 024 22.00

m > < t CODE >0105< B154 0500

m	56,0
9,0	385,0
10,0	344,0
11,0	310,0
12,0	281,0
14,0	235,0
16,0	200,0
18,0	173,0
20,0	152,0
22,0	135,0
24,0	120,0
26,0	108,0
28,0	98,0
30,0	89,0
32,0	82,0
34,0	75,0
36,0	69,0
38,0	63,0
40,0	57,0
44,0	48,0
48,0	40,5
52,0	34,5
*** n ***	30
m/s	14,3

S 8) 56m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 023 22.00

m > < t CODE >0104< B154 0500

m	56,0
9,0	404,0
10,0	361,0
11,0	326,0
12,0	295,0
14,0	245,0
16,0	209,0
18,0	181,0
20,0	159,0
22,0	141,0
24,0	127,0
26,0	114,0
28,0	104,0
30,0	94,0
32,0	86,0
34,0	79,0
36,0	73,0
38,0	68,0
40,0	63,0
44,0	55,0
48,0	47,5
52,0	41,5
* n *	32
m/s	14,3

S	--	170	16.0 x	360°
8) 56m		t	16.0 m	

ISO DIN

S	--
8) 56m	

073806 *** 022 22.00

m > < t CODE >0103< B154 0500

m	56,0
9,0	417,0
10,0	375,0
11,0	340,0
12,0	307,0
14,0	256,0
16,0	219,0
18,0	190,0
20,0	167,0
22,0	148,0
24,0	133,0
26,0	120,0
28,0	109,0
30,0	99,0
32,0	91,0
34,0	84,0
36,0	77,0
38,0	72,0
40,0	67,0
44,0	58,0
48,0	51,0
52,0	45,5
*** n ***	33
m/s	14,3

S 8) 56m	--	195 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 56m	

073806 *** 021 22.00

m > < t CODE >0102< B154 0500

m	56,0
9,0	422,0
10,0	386,0
11,0	350,0
12,0	320,0
14,0	267,0
16,0	228,0
18,0	198,0
20,0	174,0
22,0	155,0
24,0	139,0
26,0	126,0
28,0	114,0
30,0	104,0
32,0	96,0
34,0	88,0
36,0	82,0
38,0	76,0
40,0	70,0
44,0	61,0
48,0	54,0
52,0	45,5
*** n ***	34
m/s	14,3

S 8) 56m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 56m	

073806 *** 020 22.00

m	56,0
9,0	424,0
10,0	395,0
11,0	361,0
12,0	330,0
14,0	278,0
16,0	238,0
18,0	206,0
20,0	182,0
22,0	162,0
24,0	145,0
26,0	131,0
28,0	119,0
30,0	109,0
32,0	100,0
34,0	93,0
36,0	86,0
38,0	80,0
40,0	74,0
44,0	65,0
48,0	57,0
52,0	45,5
* n *	34
m/s	14,3

m > < t

CODE >0101<

B154 0500

S	--	245 t	16.0 x 16.0 m
8) 56m			360°

ISO DIN

S	--
8) 63m	

073806 *** 009 22.00

m > < t CODE >0138< B154 0600

m	63,0
10,0	145,0
11,0	127,0
12,0	112,0
14,0	89,0
16,0	72,0
18,0	59,0
20,0	48,0
22,0	39,5
24,0	33,0
26,0	26,9
28,0	21,9
30,0	17,6
32,0	13,9
34,0	10,7
36,0	7,8
38,0	5,3
*** n ***	10
m/s	14,3

S 8) 63m	--	45 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 008 22.00

m > < t CODE >0137< B154 0600

m	63,0
10,0	178,0
11,0	157,0
12,0	139,0
14,0	112,0
16,0	92,0
18,0	77,0
20,0	64,0
22,0	55,0
24,0	46,5
26,0	39,5
28,0	33,5
30,0	28,4
32,0	24,0
34,0	20,2
36,0	16,8
38,0	13,8
40,0	11,2
44,0	6,7
48,0	3,1
*** n ***	13
m/s	14,3

S 8) 63m	--	70 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 007 22.00

m > < t CODE >0136< B154 0600

m	63,0
10,0	212,0
11,0	187,0
12,0	167,0
14,0	136,0
16,0	112,0
18,0	95,0
20,0	81,0
22,0	69,0
24,0	60,0
26,0	52,0
28,0	45,0
30,0	39,0
32,0	34,0
34,0	29,7
36,0	25,8
38,0	22,3
40,0	19,3
44,0	14,1
48,0	9,9
52,0	6,6
56,0	3,9
*** n ***	15
m/s	14,3

S 8) 63m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 006 22.00

m > < t CODE >0135< B154 0600

m	63,0
10,0	245,0
11,0	217,0
12,0	194,0
14,0	159,0
16,0	133,0
18,0	113,0
20,0	97,0
22,0	84,0
24,0	73,0
26,0	64,0
28,0	56,0
30,0	50,0
32,0	44,0
34,0	39,0
36,0	34,5
38,0	31,0
40,0	27,3
44,0	21,4
48,0	16,7
52,0	12,8
56,0	9,6
*** n ***	18
m/s	14,3

S 8) 63m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 005 22.00

m > < t CODE >0134< B154 0600

m	63,0
10,0	278,0
11,0	247,0
12,0	221,0
14,0	182,0
16,0	153,0
18,0	130,0
20,0	113,0
22,0	98,0
24,0	86,0
26,0	76,0
28,0	68,0
30,0	60,0
32,0	54,0
34,0	48,5
36,0	43,5
38,0	39,0
40,0	35,5
44,0	28,7
48,0	23,4
52,0	18,8
56,0	14,8
*** n ***	20
m/s	14,3

S 8) 63m	--	145 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 004 22.00

m > < t CODE >0133< B154 0600

m	63,0
10,0	311,0
11,0	277,0
12,0	249,0
14,0	205,0
16,0	173,0
18,0	148,0
20,0	129,0
22,0	113,0
24,0	100,0
26,0	89,0
28,0	79,0
30,0	71,0
32,0	64,0
34,0	58,0
36,0	52,0
38,0	47,5
40,0	43,5
44,0	36,0
48,0	29,9
52,0	24,5
56,0	20,0
*** n ***	23
m/s	14,3

S 8) 63m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 003 22.00

m > < t CODE >0132< B154 0600

m	63,0
10,0	344,0
11,0	306,0
12,0	276,0
14,0	228,0
16,0	193,0
18,0	166,0
20,0	145,0
22,0	127,0
24,0	113,0
26,0	101,0
28,0	91,0
30,0	82,0
32,0	74,0
34,0	67,0
36,0	61,0
38,0	56,0
40,0	51,0
44,0	43,0
48,0	36,0
52,0	30,0
56,0	25,3
*** n ***	26
m/s	14,3

S 8) 63m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 002 22.00

m > < t CODE >0131< B154 0600

m	63,0
10,0	376,0
11,0	336,0
12,0	303,0
14,0	251,0
16,0	213,0
18,0	184,0
20,0	161,0
22,0	142,0
24,0	126,0
26,0	113,0
28,0	102,0
30,0	92,0
32,0	84,0
34,0	77,0
36,0	70,0
38,0	64,0
40,0	59,0
44,0	49,5
48,0	42,0
52,0	36,0
56,0	30,5
*** n ***	29
m/s	14,3

S 8) 63m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 001 22.00

m	63,0
10,0	396,0
11,0	359,0
12,0	328,0
14,0	274,0
16,0	233,0
18,0	201,0
20,0	176,0
22,0	156,0
24,0	139,0
26,0	125,0
28,0	113,0
30,0	103,0
32,0	94,0
34,0	86,0
36,0	79,0
38,0	72,0
40,0	66,0
44,0	56,0
48,0	48,0
52,0	41,5
56,0	35,5
*** n ***	31
m/s	14,3

m > < t

CODE >0130<

B154 0600

S	--	245 t	12.0 x 12.0 m
8) 63m			360°

ISO DIN

S	--
8) 63m	

073806 *** 028 22.00

m > < t CODE >0129< B154 0600

m	63,0
10,0	250,0
11,0	215,0
12,0	188,0
14,0	147,0
16,0	119,0
18,0	98,0
20,0	82,0
22,0	69,0
24,0	59,0
26,0	51,0
28,0	43,5
30,0	37,0
32,0	32,0
34,0	27,4
36,0	23,4
38,0	19,9
40,0	16,8
44,0	11,6
48,0	7,4
52,0	4,1
*** n ***	18
m/s	14,3

S 8) 63m	--	45 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 027 22.00

m > < t CODE >0128< B154 0600

m	63,0
10,0	283,0
11,0	257,0
12,0	226,0
14,0	179,0
16,0	146,0
18,0	122,0
20,0	103,0
22,0	88,0
24,0	76,0
26,0	66,0
28,0	58,0
30,0	50,0
32,0	44,5
34,0	39,0
36,0	34,5
38,0	30,0
40,0	26,6
44,0	20,5
48,0	15,6
52,0	11,6
56,0	8,3
*** n ***	21
m/s	14,3

S 8) 63m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 026 22.00

m > < t CODE >0127< B154 0600

m	63,0
10,0	300,0
11,0	272,0
12,0	247,0
14,0	207,0
16,0	173,0
18,0	145,0
20,0	124,0
22,0	107,0
24,0	93,0
26,0	81,0
28,0	72,0
30,0	64,0
32,0	57,0
34,0	51,0
36,0	45,0
38,0	40,5
40,0	36,5
44,0	29,3
48,0	23,7
52,0	18,7
56,0	14,5
*** n ***	22
m/s	14,3

S 8) 63m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 025 22.00

m	63,0
10,0	316,0
11,0	288,0
12,0	262,0
14,0	219,0
16,0	187,0
18,0	162,0
20,0	142,0
22,0	125,0
24,0	110,0
26,0	97,0
28,0	86,0
30,0	77,0
32,0	69,0
34,0	62,0
36,0	56,0
38,0	51,0
40,0	46,0
44,0	38,0
48,0	31,5
52,0	25,5
56,0	20,8
*** n ***	24
m/s	14,3

m > < t

CODE >0126<

B154 0600

	S 8) 63m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 024 22.00

m > < t CODE >0125< B154 0600

m	63,0
10,0	333,0
11,0	303,0
12,0	276,0
14,0	231,0
16,0	198,0
18,0	171,0
20,0	150,0
22,0	133,0
24,0	119,0
26,0	107,0
28,0	96,0
30,0	87,0
32,0	80,0
34,0	73,0
36,0	66,0
38,0	61,0
40,0	56,0
44,0	46,5
48,0	39,0
52,0	32,5
56,0	27,0
*** n ***	25
m/s	14,3

S 8) 63m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 023 22.00

m > < t CODE >0124< B154 0600

m	63,0
10,0	349,0
11,0	318,0
12,0	290,0
14,0	243,0
16,0	208,0
18,0	180,0
20,0	158,0
22,0	140,0
24,0	125,0
26,0	112,0
28,0	102,0
30,0	93,0
32,0	85,0
34,0	78,0
36,0	71,0
38,0	66,0
40,0	60,0
44,0	52,0
48,0	44,5
52,0	38,5
56,0	33,5
*** n ***	27
m/s	14,3

S	--	170	16.0 x 16.0	360°
8) 63m		t	m	

ISO DIN

S	--
8) 63m	

073806 *** 022 22.00

m	63,0
10,0	366,0
11,0	333,0
12,0	304,0
14,0	255,0
16,0	217,0
18,0	188,0
20,0	165,0
22,0	147,0
24,0	131,0
26,0	118,0
28,0	107,0
30,0	98,0
32,0	89,0
34,0	82,0
36,0	76,0
38,0	70,0
40,0	65,0
44,0	56,0
48,0	48,0
52,0	42,0
56,0	37,0
*** n ***	28
m/s	14,3

m > < t

CODE >0123<

B154 0600

	S 8) 63m	--	
195 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 63m	

073806 *** 021 22.00

m > < t CODE >0122< B154 0600

m	63,0
10,0	383,0
11,0	349,0
12,0	318,0
14,0	266,0
16,0	227,0
18,0	197,0
20,0	173,0
22,0	153,0
24,0	137,0
26,0	124,0
28,0	112,0
30,0	103,0
32,0	94,0
34,0	86,0
36,0	80,0
38,0	74,0
40,0	68,0
44,0	59,0
48,0	52,0
52,0	45,0
56,0	39,5
*** n ***	30
m/s	14,3

S 8) 63m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 63m	

073806 *** 020 22.00

m > < t CODE >0121< B154 0600

m	63,0
10,0	392,0
11,0	359,0
12,0	328,0
14,0	277,0
16,0	236,0
18,0	205,0
20,0	180,0
22,0	160,0
24,0	144,0
26,0	130,0
28,0	118,0
30,0	107,0
32,0	99,0
34,0	91,0
36,0	84,0
38,0	78,0
40,0	72,0
44,0	63,0
48,0	55,0
52,0	48,5
56,0	39,5
*** n ***	31
m/s	14,3

S 8) 63m	--	245 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 009 22.00

m > < t CODE >0156< B154 0700

m	70,0
10,0	107,0
11,0	107,0
12,0	104,0
14,0	83,0
16,0	67,0
18,0	54,0
20,0	44,0
22,0	36,0
24,0	29,4
26,0	23,7
28,0	18,8
30,0	14,7
32,0	11,0
34,0	7,8
36,0	5,0
*** n ***	7
m/s	12,8

S	--	45	12.0 x	360°
8) 70m		t	12.0 m	

ISO DIN

S	--
8) 70m	

073806 *** 008 22.00

m > < t CODE >0155< B154 0700

m	70,0
10,0	165,0
11,0	146,0
12,0	130,0
14,0	105,0
16,0	86,0
18,0	72,0
20,0	60,0
22,0	50,0
24,0	42,5
26,0	36,0
28,0	30,0
30,0	25,2
32,0	20,9
34,0	17,2
36,0	13,8
38,0	10,9
40,0	8,2
44,0	3,7
*** n ***	12
m/s	12,8

S 8) 70m	--	70 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 007 22.00

m > < t CODE >0154< B154 0700

m	70,0
10,0	197,0
11,0	175,0
12,0	156,0
14,0	127,0
16,0	106,0
18,0	89,0
20,0	76,0
22,0	65,0
24,0	56,0
26,0	48,0
28,0	41,5
30,0	35,5
32,0	31,0
34,0	26,5
36,0	22,7
38,0	19,2
40,0	16,2
44,0	11,0
48,0	6,8
52,0	3,3
* n *	14
m/s	12,8

S 8) 70m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 006 22.00

m > < t CODE >0153< B154 0700

m	70,0
10,0	228,0
11,0	203,0
12,0	182,0
14,0	150,0
16,0	125,0
18,0	106,0
20,0	91,0
22,0	79,0
24,0	69,0
26,0	60,0
28,0	53,0
30,0	46,0
32,0	40,5
34,0	35,5
36,0	31,5
38,0	27,5
40,0	24,1
44,0	18,2
48,0	13,4
52,0	9,5
56,0	6,2
60,0	3,6
* n *	16
m/s	12,8

S 8) 70m	--	120 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 005 22.00

m > < t CODE >0152< B154 0700

m	70,0
10,0	259,0
11,0	231,0
12,0	208,0
14,0	172,0
16,0	145,0
18,0	124,0
20,0	107,0
22,0	93,0
24,0	82,0
26,0	72,0
28,0	64,0
30,0	57,0
32,0	50,0
34,0	45,0
36,0	40,0
38,0	36,0
40,0	32,0
44,0	25,4
48,0	20,0
52,0	15,6
56,0	11,9
60,0	8,9
64,0	6,3
* n *	19
m/s	12,8

S 8) 70m	--	145 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 004 22.00

m > < t CODE >0151< B154 0700

m	70,0
10,0	290,0
11,0	260,0
12,0	234,0
14,0	194,0
16,0	164,0
18,0	141,0
20,0	122,0
22,0	107,0
24,0	95,0
26,0	84,0
28,0	75,0
30,0	67,0
32,0	60,0
34,0	54,0
36,0	49,0
38,0	44,0
40,0	40,0
44,0	32,5
48,0	26,6
52,0	21,7
56,0	17,6
60,0	13,9
64,0	10,8
*** n ***	21
m/s	12,8

S 8) 70m	--	170 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 003 22.00

m > < t CODE >0150< B154 0700

m	70,0
10,0	321,0
11,0	288,0
12,0	260,0
14,0	216,0
16,0	183,0
18,0	158,0
20,0	138,0
22,0	121,0
24,0	107,0
26,0	96,0
28,0	86,0
30,0	77,0
32,0	70,0
34,0	63,0
36,0	57,0
38,0	52,0
40,0	47,5
44,0	39,5
48,0	33,0
52,0	27,7
56,0	22,9
60,0	18,8
64,0	15,3
* n *	24
m/s	12,8

S 8) 70m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 002 22.00

m > < t CODE >0149< B154 0700

m	70,0
10,0	352,0
11,0	316,0
12,0	286,0
14,0	238,0
16,0	203,0
18,0	175,0
20,0	153,0
22,0	135,0
24,0	120,0
26,0	108,0
28,0	97,0
30,0	88,0
32,0	80,0
34,0	72,0
36,0	66,0
38,0	60,0
40,0	55,0
44,0	46,5
48,0	39,5
52,0	33,5
56,0	28,2
60,0	23,6
64,0	19,8
*** n ***	27
m/s	12,8

S 8) 70m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 001 22.00

m > < t CODE >0148< B154 0700

m	70,0
10,0	383,0
11,0	344,0
12,0	311,0
14,0	260,0
16,0	222,0
18,0	192,0
20,0	169,0
22,0	149,0
24,0	133,0
26,0	120,0
28,0	108,0
30,0	98,0
32,0	89,0
34,0	81,0
36,0	75,0
38,0	69,0
40,0	63,0
44,0	54,0
48,0	46,0
52,0	39,5
56,0	33,5
60,0	28,4
64,0	24,3
* n *	30
m/s	12,8

S	--	245	12.0 x	360°
8) 70m		t	12.0	
			m	

ISO DIN

S	--
8) 70m	

073806 *** 028 22.00

m > < t CODE >0147< B154 0700

m	70,0
10,0	107,0
11,0	107,0
12,0	107,0
14,0	107,0
16,0	107,0
18,0	92,0
20,0	77,0
22,0	65,0
24,0	55,0
26,0	47,0
28,0	40,0
30,0	34,0
32,0	28,8
34,0	24,3
36,0	20,4
38,0	17,0
40,0	13,9
44,0	8,7
48,0	4,5
*** n ***	7
m/s	12,8

S 8) 70m	--	45 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 027 22.00

m	70,0
10,0	271,0
11,0	240,0
12,0	211,0
14,0	168,0
16,0	138,0
18,0	115,0
20,0	97,0
22,0	83,0
24,0	72,0
26,0	62,0
28,0	54,0
30,0	47,0
32,0	41,0
34,0	35,5
36,0	31,0
38,0	27,1
40,0	23,5
44,0	17,4
48,0	12,4
52,0	8,4
56,0	5,1
*** n ***	20
m/s	12,8

m > < t

CODE >0146<

B154 0700

	S 8) 70m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 026 22.00

m > < t CODE >0145< B154 0700

m	70,0
10,0	287,0
11,0	261,0
12,0	239,0
14,0	198,0
16,0	164,0
18,0	138,0
20,0	117,0
22,0	101,0
24,0	88,0
26,0	77,0
28,0	68,0
30,0	60,0
32,0	53,0
34,0	47,0
36,0	42,0
38,0	37,0
40,0	33,0
44,0	26,1
48,0	20,4
52,0	15,8
56,0	12,0
60,0	8,8
64,0	5,9
* n *	21
m/s	12,8

S	--	95	16.0 x 16.0	360°
8) 70m		t	m	

ISO DIN

S	--
8) 70m	

073806 *** 025 22.00

m > < t CODE >0144< B154 0700

m	70,0
10,0	303,0
11,0	276,0
12,0	252,0
14,0	214,0
16,0	183,0
18,0	158,0
20,0	137,0
22,0	119,0
24,0	104,0
26,0	92,0
28,0	82,0
30,0	73,0
32,0	65,0
34,0	58,0
36,0	53,0
38,0	47,5
40,0	42,5
44,0	35,0
48,0	28,4
52,0	23,1
56,0	18,6
60,0	14,5
64,0	11,3
* n *	22
m/s	12,8

S 8) 70m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 70m	

073806 *** 024 22.00

m > < t CODE >0143< B154 0700

m	70,0
10,0	319,0
11,0	290,0
12,0	266,0
14,0	226,0
16,0	193,0
18,0	168,0
20,0	147,0
22,0	130,0
24,0	116,0
26,0	104,0
28,0	93,0
30,0	84,0
32,0	77,0
34,0	70,0
36,0	63,0
38,0	57,0
40,0	52,0
44,0	43,5
48,0	36,5
52,0	30,5
56,0	24,8
60,0	20,3
64,0	16,6
*** n ***	24
m/s	12,8

	S 8) 70m	--	145 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 023 22.00

m > < t CODE >0142< B154 0700

m	70,0
10,0	335,0
11,0	305,0
12,0	280,0
14,0	238,0
16,0	204,0
18,0	177,0
20,0	155,0
22,0	138,0
24,0	123,0
26,0	110,0
28,0	99,0
30,0	90,0
32,0	82,0
34,0	75,0
36,0	68,0
38,0	63,0
40,0	58,0
44,0	49,0
48,0	41,5
52,0	35,5
56,0	30,5
60,0	26,1
64,0	22,0
*** n ***	25
m/s	12,8

S 8) 70m	--	170 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 022 22.00

m > < t CODE >0141< B154 0700

m	70,0
10,0	351,0
11,0	320,0
12,0	294,0
14,0	251,0
16,0	215,0
18,0	187,0
20,0	164,0
22,0	145,0
24,0	130,0
26,0	117,0
28,0	105,0
30,0	96,0
32,0	87,0
34,0	80,0
36,0	73,0
38,0	67,0
40,0	62,0
44,0	53,0
48,0	45,0
52,0	39,0
56,0	33,5
60,0	29,1
64,0	25,0
*** n ***	27
m/s	12,8

S 8) 70m	--	195 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 70m	

073806 *** 021 22.00

m	70,0
10,0	367,0
11,0	335,0
12,0	307,0
14,0	263,0
16,0	225,0
18,0	195,0
20,0	171,0
22,0	152,0
24,0	136,0
26,0	122,0
28,0	111,0
30,0	101,0
32,0	92,0
34,0	85,0
36,0	78,0
38,0	72,0
40,0	66,0
44,0	57,0
48,0	48,5
52,0	42,0
56,0	36,5
60,0	32,0
64,0	25,0
*** n ***	28
m/s	12,8

m > < t

CODE >0140<

B154 0700

S	--	220 t	16.0 x 16.0 m
8) 70m			360°

ISO DIN

S	--
8) 70m	

073806 *** 020 22.00

m	70,0
10,0	383,0
11,0	349,0
12,0	321,0
14,0	275,0
16,0	235,0
18,0	203,0
20,0	179,0
22,0	159,0
24,0	142,0
26,0	128,0
28,0	116,0
30,0	106,0
32,0	97,0
34,0	89,0
36,0	82,0
38,0	76,0
40,0	70,0
44,0	61,0
48,0	52,0
52,0	45,5
56,0	39,5
60,0	32,5
64,0	25,0
*** n ***	30
m/s	12,8

m > < t

CODE >0139<

B154 0700

	S 8) 70m	--	245 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 008 22.00

m > < t CODE >0172< B154 0800

m	77,0
11,0	107,0
12,0	107,0
14,0	99,0
16,0	81,0
18,0	68,0
20,0	56,0
22,0	47,5
24,0	39,5
26,0	33,0
28,0	27,5
30,0	22,7
32,0	18,5
34,0	14,8
36,0	11,5
38,0	8,5
40,0	5,9
*** n ***	7
m/s	12,8

S 8) 77m	--	70 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 77m	

073806 *** 007 22.00

m > < t CODE >0171< B154 0800

m	77,0
11,0	163,0
12,0	148,0
14,0	121,0
16,0	100,0
18,0	84,0
20,0	72,0
22,0	61,0
24,0	52,0
26,0	45,0
28,0	38,5
30,0	33,0
32,0	28,2
34,0	23,9
36,0	20,1
38,0	16,8
40,0	13,7
44,0	8,5
48,0	4,2
*** n ***	11
m/s	12,8

S 8) 77m	--	95 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 006 22.00

m > < t CODE >0170< B154 0800

m	77,0
11,0	192,0
12,0	172,0
14,0	142,0
16,0	119,0
18,0	101,0
20,0	87,0
22,0	75,0
24,0	65,0
26,0	57,0
28,0	49,5
30,0	43,5
32,0	38,0
34,0	33,0
36,0	28,7
38,0	24,9
40,0	21,5
44,0	15,6
48,0	10,8
52,0	6,7
56,0	3,4
*** n ***	14
m/s	12,8

S 8) 77m	--	120 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 77m	

073806 *** 005 22.00

m > < t CODE >0169< B154 0800

m	77,0
11,0	219,0
12,0	197,0
14,0	164,0
16,0	138,0
18,0	118,0
20,0	102,0
22,0	89,0
24,0	78,0
26,0	68,0
28,0	60,0
30,0	53,0
32,0	47,5
34,0	42,0
36,0	37,5
38,0	33,0
40,0	29,2
44,0	22,7
48,0	17,3
52,0	12,7
56,0	9,0
60,0	5,8
64,0	3,1
* n *	16
m/s	12,8

S	--	145	12.0 x 12.0	360°
8) 77m		t	m	

ISO DIN

S	--
8) 77m	

073806 *** 004 22.00

m > < t CODE >0168< B154 0800

m	77,0
11,0	245,0
12,0	222,0
14,0	185,0
16,0	157,0
18,0	135,0
20,0	117,0
22,0	103,0
24,0	90,0
26,0	80,0
28,0	71,0
30,0	64,0
32,0	57,0
34,0	51,0
36,0	46,0
38,0	41,0
40,0	37,0
44,0	29,7
48,0	23,7
52,0	18,7
56,0	14,6
60,0	11,0
64,0	8,1
68,0	5,6
72,0	3,4
*** n ***	18
m/s	12,8

S 8) 77m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 003 22.00

m > < t CODE >0167< B154 0800

m	77,0
11,0	272,0
12,0	247,0
14,0	206,0
16,0	176,0
18,0	151,0
20,0	132,0
22,0	116,0
24,0	103,0
26,0	92,0
28,0	82,0
30,0	74,0
32,0	67,0
34,0	60,0
36,0	54,0
38,0	49,0
40,0	44,5
44,0	36,5
48,0	30,0
52,0	24,7
56,0	20,1
60,0	16,2
64,0	13,0
68,0	9,9
72,0	7,3
*** n ***	20
m/s	12,8

S 8) 77m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 002 22.00

m > < t CODE >0166< B154 0800

m	77,0
11,0	299,0
12,0	271,0
14,0	227,0
16,0	194,0
18,0	168,0
20,0	147,0
22,0	130,0
24,0	116,0
26,0	103,0
28,0	93,0
30,0	84,0
32,0	76,0
34,0	69,0
36,0	63,0
38,0	57,0
40,0	52,0
44,0	43,5
48,0	36,5
52,0	30,5
56,0	25,7
60,0	21,5
64,0	17,5
68,0	14,1
72,0	11,3
* n *	22
m/s	12,8

S 8) 77m	--	220 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 77m	

073806 *** 001 22.00

m > < t CODE >0165< B154 0800

m	77,0
11,0	326,0
12,0	296,0
14,0	249,0
16,0	213,0
18,0	185,0
20,0	162,0
22,0	144,0
24,0	128,0
26,0	115,0
28,0	104,0
30,0	94,0
32,0	86,0
34,0	78,0
36,0	71,0
38,0	65,0
40,0	60,0
44,0	51,0
48,0	43,0
52,0	36,5
56,0	31,0
60,0	26,4
64,0	22,0
68,0	18,3
72,0	13,5
* n *	25
m/s	12,8

S	--	245	12.0 x	360°
8) 77m		t	12.0	
			m	

ISO DIN

S	--
8) 77m	

073806 *** 027 22.00

m > < t CODE >0164< B154 0800

m	77,0
11,0	107,0
12,0	107,0
14,0	107,0
16,0	107,0
18,0	107,0
20,0	93,0
22,0	79,0
24,0	68,0
26,0	59,0
28,0	51,0
30,0	44,0
32,0	38,5
34,0	33,0
36,0	28,6
38,0	24,6
40,0	21,0
44,0	14,9
48,0	9,9
52,0	5,8
*** n ***	7
m/s	12,8

S 8) 77m	--	70 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 026 22.00

m > < t CODE >0163< B154 0800

m	77,0
11,0	163,0
12,0	163,0
14,0	163,0
16,0	156,0
18,0	132,0
20,0	112,0
22,0	97,0
24,0	84,0
26,0	74,0
28,0	65,0
30,0	57,0
32,0	50,0
34,0	44,5
36,0	39,0
38,0	34,5
40,0	30,5
44,0	23,5
48,0	17,8
52,0	13,1
56,0	9,1
60,0	5,8
64,0	3,0
*** n ***	11
m/s	12,8

S 8) 77m	--	95 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 025 22.00

m > < t CODE >0162< B154 0800

m	77,0
11,0	242,0
12,0	242,0
14,0	207,0
16,0	179,0
18,0	153,0
20,0	132,0
22,0	114,0
24,0	100,0
26,0	88,0
28,0	78,0
30,0	70,0
32,0	62,0
34,0	55,0
36,0	49,5
38,0	44,5
40,0	40,0
44,0	32,0
48,0	25,7
52,0	20,3
56,0	15,9
60,0	12,1
64,0	9,0
68,0	6,1
72,0	3,7
* n *	17
m/s	12,8

S 8) 77m	--	120 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 024 22.00

m > < t CODE >0161< B154 0800

m	77,0
11,0	278,0
12,0	255,0
14,0	218,0
16,0	189,0
18,0	164,0
20,0	144,0
22,0	127,0
24,0	113,0
26,0	101,0
28,0	91,0
30,0	82,0
32,0	74,0
34,0	67,0
36,0	60,0
38,0	54,0
40,0	49,5
44,0	40,5
48,0	33,5
52,0	27,6
56,0	22,6
60,0	18,4
64,0	14,4
68,0	11,1
72,0	8,3
* n *	20
m/s	12,8

S 8) 77m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 023 22.00

m	77,0
11,0	293,0
12,0	269,0
14,0	230,0
16,0	200,0
18,0	173,0
20,0	152,0
22,0	134,0
24,0	120,0
26,0	107,0
28,0	97,0
30,0	87,0
32,0	79,0
34,0	72,0
36,0	66,0
38,0	60,0
40,0	55,0
44,0	46,0
48,0	39,0
52,0	33,0
56,0	27,7
60,0	23,3
64,0	19,6
68,0	16,1
72,0	13,0
* n *	22
m/s	12,8

m > < t

CODE >0160<

B154 0800

	S 8) 77m	--	170 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 022 22.00

m > < t CODE >0159< B154 0800

m	77,0
11,0	307,0
12,0	282,0
14,0	242,0
16,0	210,0
18,0	183,0
20,0	160,0
22,0	142,0
24,0	127,0
26,0	114,0
28,0	103,0
30,0	93,0
32,0	85,0
34,0	77,0
36,0	71,0
38,0	65,0
40,0	59,0
44,0	50,0
48,0	42,5
52,0	36,0
56,0	31,0
60,0	26,2
64,0	22,3
68,0	19,0
72,0	13,5
* n *	23
m/s	12,8

S 8) 77m	--	195 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 021 22.00

m > < t CODE >0158< B154 0800

m	77,0
11,0	321,0
12,0	295,0
14,0	253,0
16,0	220,0
18,0	192,0
20,0	169,0
22,0	150,0
24,0	134,0
26,0	121,0
28,0	109,0
30,0	99,0
32,0	90,0
34,0	82,0
36,0	75,0
38,0	69,0
40,0	64,0
44,0	54,0
48,0	46,0
52,0	39,5
56,0	34,0
60,0	29,1
64,0	25,0
68,0	20,0
72,0	13,5
* n *	24
m/s	12,8

S 8) 77m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 77m	

073806 *** 020 22.00

m > < t CODE >0157< B154 0800

m	77,0
11,0	335,0
12,0	309,0
14,0	265,0
16,0	231,0
18,0	202,0
20,0	177,0
22,0	157,0
24,0	141,0
26,0	127,0
28,0	115,0
30,0	104,0
32,0	95,0
34,0	87,0
36,0	80,0
38,0	74,0
40,0	68,0
44,0	58,0
48,0	49,5
52,0	43,0
56,0	37,0
60,0	32,0
64,0	26,5
68,0	20,0
72,0	13,5
*** n ***	25
m/s	12,8

S 8) 77m	--	245 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 84m	

073806 *** 005 22.00

m > < t CODE >0182< B154 0900

m	84,0
11,0	107,0
12,0	107,0
14,0	107,0
16,0	107,0
18,0	107,0
20,0	97,0
22,0	85,0
24,0	74,0
26,0	65,0
28,0	57,0
30,0	50,0
32,0	44,5
34,0	39,0
36,0	34,5
38,0	30,5
40,0	26,5
44,0	20,0
48,0	14,7
52,0	10,1
56,0	6,3
60,0	3,0
*** n ***	7
m/s	12,8

S 8) 84m	--	145 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 004 22.00

m > < t CODE >0181< B154 0900

m	84,0
11,0	163,0
12,0	163,0
14,0	163,0
16,0	150,0
18,0	129,0
20,0	112,0
22,0	98,0
24,0	86,0
26,0	76,0
28,0	68,0
30,0	60,0
32,0	54,0
34,0	48,0
36,0	43,0
38,0	38,5
40,0	34,0
44,0	27,0
48,0	21,0
52,0	16,1
56,0	11,8
60,0	8,2
64,0	5,1
*** n ***	11
m/s	12,8

	S 8) 84m	--	170 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 003 22.00

m > < t CODE >0180< B154 0900

m	84,0
11,0	214,0
12,0	214,0
14,0	196,0
16,0	168,0
18,0	145,0
20,0	127,0
22,0	111,0
24,0	99,0
26,0	88,0
28,0	78,0
30,0	70,0
32,0	63,0
34,0	57,0
36,0	51,0
38,0	46,0
40,0	41,5
44,0	34,0
48,0	27,4
52,0	22,0
56,0	17,3
60,0	13,4
64,0	10,0
68,0	7,1
72,0	4,6
* n *	15
m/s	12,8

S 8) 84m	--	195 t	12.0 x 12.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 002 22.00

m > < t CODE >0179< B154 0900

m	84,0
11,0	283,0
12,0	258,0
14,0	217,0
16,0	186,0
18,0	161,0
20,0	141,0
22,0	125,0
24,0	111,0
26,0	99,0
28,0	89,0
30,0	80,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	49,5
44,0	41,0
48,0	34,0
52,0	27,8
56,0	22,8
60,0	18,5
64,0	14,8
68,0	11,7
72,0	8,9
76,0	6,4
* n *	21
m/s	12,8

S	--	220	12.0 x 12.0	360°
8) 84m		t	m	

ISO DIN

S	--
8) 84m	

073806 *** 001 22.00

m	84,0
11,0	295,0
12,0	281,0
14,0	237,0
16,0	204,0
18,0	177,0
20,0	156,0
22,0	138,0
24,0	123,0
26,0	111,0
28,0	100,0
30,0	90,0
32,0	82,0
34,0	74,0
36,0	68,0
38,0	62,0
40,0	57,0
44,0	47,5
48,0	40,0
52,0	33,5
56,0	28,3
60,0	23,6
64,0	19,6
68,0	16,2
72,0	13,0
76,0	10,1
*** n ***	22
m/s	12,8

m > < t

CODE >0178<

B154 0900

	S 8) 84m	--	245 t	12.0 x 12.0 m	360°	

ISO DIN

S	--
8) 84m	

073806 *** 024 22.00

m > < t CODE >0177< B154 0900

m	84,0
11,0	107,0
12,0	107,0
14,0	107,0
16,0	107,0
18,0	107,0
20,0	107,0
22,0	107,0
24,0	107,0
26,0	98,0
28,0	88,0
30,0	79,0
32,0	71,0
34,0	63,0
36,0	57,0
38,0	52,0
40,0	46,5
44,0	38,0
48,0	31,0
52,0	24,9
56,0	19,9
60,0	15,6
64,0	12,0
68,0	8,9
72,0	6,2
76,0	3,6
* n *	7
m/s	12,8

S 8) 84m	--	145 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 023 22.00

m > < t CODE >0176< B154 0900

m	84,0
11,0	163,0
12,0	163,0
14,0	163,0
16,0	163,0
18,0	163,0
20,0	149,0
22,0	131,0
24,0	117,0
26,0	105,0
28,0	94,0
30,0	85,0
32,0	77,0
34,0	70,0
36,0	63,0
38,0	58,0
40,0	53,0
44,0	44,0
48,0	36,5
52,0	30,5
56,0	25,2
60,0	20,8
64,0	17,0
68,0	13,7
72,0	10,8
76,0	8,1
*** n ***	11
m/s	12,8

S 8) 84m	--	170 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 84m	

073806 *** 022 22.00

m	84,0
11,0	294,0
12,0	271,0
14,0	232,0
16,0	202,0
18,0	178,0
20,0	157,0
22,0	139,0
24,0	124,0
26,0	111,0
28,0	100,0
30,0	90,0
32,0	82,0
34,0	75,0
36,0	68,0
38,0	62,0
40,0	57,0
44,0	47,5
48,0	40,0
52,0	33,5
56,0	28,3
60,0	23,7
64,0	19,7
68,0	16,2
72,0	13,2
76,0	10,6
*** n ***	22
m/s	12,8

m > < t

CODE >0175<

B154 0900

	S 8) 84m	--	195 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 021 22.00

m > < t CODE >0174< B154 0900

m	84,0
11,0	295,0
12,0	283,0
14,0	244,0
16,0	212,0
18,0	187,0
20,0	166,0
22,0	147,0
24,0	131,0
26,0	118,0
28,0	106,0
30,0	96,0
32,0	87,0
34,0	80,0
36,0	73,0
38,0	67,0
40,0	61,0
44,0	52,0
48,0	43,5
52,0	37,0
56,0	31,5
60,0	26,5
64,0	22,4
68,0	18,7
72,0	15,6
76,0	10,6
* n *	22
m/s	12,8

S 8) 84m	--	220 t	16.0 x 16.0 m	360°

ISO DIN

S	--
8) 84m	

073806 *** 020 22.00

m > < t CODE >0173< B154 0900

m	84,0
11,0	295,0
12,0	291,0
14,0	255,0
16,0	223,0
18,0	196,0
20,0	174,0
22,0	154,0
24,0	138,0
26,0	124,0
28,0	112,0
30,0	102,0
32,0	93,0
34,0	85,0
36,0	78,0
38,0	71,0
40,0	65,0
44,0	56,0
48,0	47,5
52,0	40,5
56,0	34,5
60,0	29,4
64,0	25,1
68,0	21,3
72,0	15,8
76,0	10,6
* n *	22
m/s	12,8

	S 8) 84m	--	245 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 91m	

073806 *** 021 22.00

m > < t CODE >0184< B154 0A00

m	91,0
12,0	242,0
14,0	234,0
16,0	204,0
18,0	180,0
20,0	160,0
22,0	143,0
24,0	128,0
26,0	114,0
28,0	103,0
30,0	93,0
32,0	85,0
34,0	77,0
36,0	70,0
38,0	64,0
40,0	59,0
44,0	49,0
48,0	41,0
52,0	34,5
56,0	28,8
60,0	23,9
64,0	19,7
68,0	16,0
72,0	12,8
76,0	10,0
80,0	7,4
* n *	17
m/s	12,8

S 8) 91m	--	220 t	16.0 x 16.0 m	360°	

ISO DIN

S	--
8) 91m	

073806 *** 020 22.00

m > < t CODE >0183< B154 0A00

m	91,0
12,0	242,0
14,0	242,0
16,0	214,0
18,0	189,0
20,0	168,0
22,0	151,0
24,0	135,0
26,0	121,0
28,0	109,0
30,0	99,0
32,0	90,0
34,0	82,0
36,0	75,0
38,0	69,0
40,0	63,0
44,0	53,0
48,0	44,5
52,0	38,0
56,0	32,0
60,0	26,8
64,0	22,4
68,0	18,6
72,0	15,2
76,0	11,9
80,0	7,6
* n *	17
m/s	12,8

S 8) 91m	--	245 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 019 22.01

m > < t CODE >2694< B154 0B00

m	21,0
6,0	544,0
6,5	504,0
7,0	469,0
8,0	402,0
9,0	346,0
10,0	285,0
11,0	241,0
12,0	208,0
14,0	162,0
16,0	125,0
18,0	101,0
20,0	83,0
* n *	47
m/s	14,3

SP S 21m	--	50 t	12.0 x 12.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 018 22.01

m	21,0
6,0	569,0
6,5	528,0
7,0	492,0
8,0	429,0
9,0	375,0
10,0	332,0
11,0	296,0
12,0	256,0
14,0	199,0
16,0	155,0
18,0	125,0
20,0	104,0
*** n ***	51
m/s	14,3

m > < t

CODE >2693<

B154 0B00

	SP S 21m	--	75 t	12.0 x 12.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 017 22.01

m	21,0
6,0	595,0
6,5	552,0
7,0	514,0
8,0	452,0
9,0	398,0
10,0	353,0
11,0	317,0
12,0	287,0
14,0	236,0
16,0	184,0
18,0	150,0
20,0	125,0
*** n ***	54
m/s	14,3

m > < t

CODE >2692<

B154 0B00

SP S 21m	--	100 t	12.0 x 12.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 016 22.01

m	21,0
6,0	528,0
6,5	516,0
7,0	505,0
8,0	472,0
9,0	421,0
10,0	374,0
11,0	336,0
12,0	304,0
14,0	255,0
16,0	214,0
18,0	174,0
20,0	146,0
*** n ***	45
m/s	14,3

m > < t

CODE >2691<

B154 0B00

	SP S 21m	--	125 t	12.0 x 12.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 015 22.01

m	21,0
10,0	395,0
11,0	354,0
12,0	321,0
14,0	270,0
16,0	232,0
18,0	199,0
20,0	167,0
*** n ***	31
m/s	14,3

m > < t

CODE >2690<

B154 0B00

SP S 21m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 038 22.01

m > < t CODE >0193< B154 0B00

m	21,0
6,0	544,0
6,5	504,0
7,0	469,0
8,0	402,0
9,0	351,0
10,0	311,0
11,0	279,0
12,0	252,0
14,0	211,0
16,0	181,0
18,0	153,0
20,0	123,0
*** n ***	47
m/s	14,3

SP S 21m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 037 22.01

m	21,0
6,0	557,0
6,5	528,0
7,0	492,0
8,0	429,0
9,0	374,0
10,0	332,0
11,0	298,0
12,0	269,0
14,0	226,0
16,0	193,0
18,0	169,0
20,0	149,0
*** n ***	49
m/s	14,3

m > < t

CODE >0192<

B154 0B00

	SP S 21m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 036 22.01

m	21,0
6,0	564,0
6,5	540,0
7,0	514,0
8,0	452,0
9,0	398,0
10,0	353,0
11,0	317,0
12,0	287,0
14,0	240,0
16,0	206,0
18,0	180,0
20,0	159,0
*** n ***	50
m/s	14,3

m > < t

CODE >0191<

B154 0B00

	SP S 21m	--	
100 t	16.0 x 16.0 m	360°	

ISO DIN

SP S 21m	--

073806 *** 035 22.01

m	21,0
6,0	570,0
6,5	546,0
7,0	524,0
8,0	472,0
9,0	421,0
10,0	374,0
11,0	335,0
12,0	304,0
14,0	255,0
16,0	219,0
18,0	191,0
20,0	169,0
*** n ***	51
m/s	14,3

m > < t

CODE >0190<

B154 0B00

	SP S 21m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 034 22.01

m > < t CODE >0189< B154 0B00

m	21,0
6,0	577,0
6,5	552,0
7,0	530,0
8,0	489,0
9,0	438,0
10,0	395,0
11,0	354,0
12,0	321,0
14,0	270,0
16,0	232,0
18,0	202,0
20,0	179,0
*** n ***	52
m/s	14,3

SP S 21m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
21m	

073806 *** 033 22.01

m > < t CODE >0188< B154 0B00

m	21,0
6,0	583,0
6,5	558,0
7,0	536,0
8,0	495,0
9,0	456,0
10,0	411,0
11,0	373,0
12,0	338,0
14,0	284,0
16,0	244,0
18,0	214,0
20,0	186,0
*** n ***	53
m/s	14,3

SP S 21m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 032 22.01

m > < t CODE >0187< B154 0B00

m	21,0
6,0	590,0
6,5	565,0
7,0	541,0
8,0	500,0
9,0	465,0
10,0	427,0
11,0	389,0
12,0	356,0
14,0	299,0
16,0	257,0
18,0	225,0
20,0	186,0
*** n ***	53
m/s	14,3

	SP S 21m	--	200 t	16.0 x 16.0 m	360°	

ISO DIN

SP S 21m	--

073806 *** 031 22.01

m > < t CODE >0186< B154 0B00

m	21,0
6,0	596,0
6,5	571,0
7,0	547,0
8,0	506,0
9,0	470,0
10,0	439,0
11,0	403,0
12,0	370,0
14,0	314,0
16,0	270,0
18,0	236,0
20,0	186,0
*** n ***	54
m/s	14,3

SP S 21m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S 21m	--

073806 *** 030 22.01

m	21,0
9,0	475,0
10,0	443,0
11,0	416,0
12,0	383,0
14,0	328,0
16,0	283,0
18,0	240,0
20,0	186,0
*** n ***	39
m/s	14,3

m > < t

CODE >0185<

B154 0B00

SP S 21m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 019 22.01

m > < t CODE >2701< B154 0C00

m	28,0
6,5	502,0
7,0	467,0
8,0	381,0
9,0	308,0
10,0	257,0
11,0	220,0
12,0	191,0
14,0	150,0
16,0	122,0
18,0	101,0
20,0	83,0
22,0	70,0
24,0	60,0
26,0	52,0
*** n ***	42
m/s	14,3

SP S 28m	--	50 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 018 22.01

m > < t CODE >2700< B154 0C00

m	28,0
6,5	526,0
7,0	490,0
8,0	427,0
9,0	373,0
10,0	315,0
11,0	270,0
12,0	236,0
14,0	187,0
16,0	153,0
18,0	126,0
20,0	105,0
22,0	89,0
24,0	76,0
26,0	67,0
*** n ***	45
m/s	14,3

SP S 28m	--	75 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 28m	--

073806 *** 017 22.01

m > < t CODE >2699< B154 0C00

m	28,0
6,5	549,0
7,0	512,0
8,0	450,0
9,0	396,0
10,0	351,0
11,0	315,0
12,0	281,0
14,0	223,0
16,0	184,0
18,0	150,0
20,0	126,0
22,0	107,0
24,0	93,0
26,0	81,0
*** n ***	48
m/s	14,3

SP S 28m	--	100 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 016 22.01

m	28,0
6,5	531,0
7,0	528,0
8,0	470,0
9,0	419,0
10,0	372,0
11,0	334,0
12,0	302,0
14,0	253,0
16,0	214,0
18,0	175,0
20,0	147,0
22,0	126,0
24,0	109,0
26,0	96,0
*** n ***	46
m/s	14,3

m > < t

CODE >2698<

B154 0C00

	SP S 28m	--	125 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 015 22.01

m	28,0
9,0	436,0
10,0	393,0
11,0	353,0
12,0	320,0
14,0	268,0
16,0	230,0
18,0	200,0
20,0	168,0
22,0	144,0
24,0	126,0
26,0	111,0
*** n ***	35
m/s	14,3

m > < t

CODE >2697<

B154 0C00

SP S 28m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 014 22.01

m	28,0
16,0	243,0
18,0	212,0
20,0	188,0
22,0	162,0
24,0	142,0
26,0	126,0
*** n ***	18
m/s	14,3

m > < t

CODE >2696<

B154 0C00

SP S 28m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 013 22.01

m	28,0
20,0	198,0
22,0	177,0
24,0	158,0
26,0	140,0
*** n ***	14
m/s	14,3

m > < t

CODE >2695<

B154 0C00

SP S 28m	--	200 t	12.0 x 12.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 038 22.01

m	28,0
6,5	502,0
7,0	467,0
8,0	400,0
9,0	349,0
10,0	309,0
11,0	277,0
12,0	251,0
14,0	209,0
16,0	179,0
18,0	154,0
20,0	125,0
22,0	104,0
24,0	88,0
26,0	76,0
*** n ***	42
m/s	14,3

m > < t

CODE >0202<

B154 0C00

SP S 28m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 037 22.01

m	28,0
6,5	526,0
7,0	490,0
8,0	427,0
9,0	373,0
10,0	330,0
11,0	296,0
12,0	268,0
14,0	224,0
16,0	192,0
18,0	167,0
20,0	148,0
22,0	128,0
24,0	109,0
26,0	94,0
*** n ***	45
m/s	14,3

m > < t CODE >0201< B154 0C00

SP S 28m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 036 22.01

m > < t CODE >0200< B154 0C00

m	28,0
6,5	536,0
7,0	512,0
8,0	450,0
9,0	396,0
10,0	351,0
11,0	315,0
12,0	285,0
14,0	239,0
16,0	205,0
18,0	178,0
20,0	158,0
22,0	141,0
24,0	127,0
26,0	113,0
*** n ***	46
m/s	14,3

	SP S 28m	--	100 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 035 22.01

m > < t CODE >0199< B154 0C00

m	28,0
6,5	542,0
7,0	520,0
8,0	470,0
9,0	419,0
10,0	372,0
11,0	334,0
12,0	302,0
14,0	253,0
16,0	217,0
18,0	190,0
20,0	168,0
22,0	150,0
24,0	135,0
26,0	123,0
*** n ***	47
m/s	14,3

SP S 28m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 034 22.01

m > < t CODE >0198< B154 0C00

m	28,0
6,5	548,0
7,0	526,0
8,0	486,0
9,0	436,0
10,0	393,0
11,0	353,0
12,0	319,0
14,0	268,0
16,0	230,0
18,0	201,0
20,0	178,0
22,0	159,0
24,0	144,0
26,0	131,0
*** n ***	48
m/s	14,3

SP S 28m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 033 22.01

m	28,0
6,5	555,0
7,0	532,0
8,0	491,0
9,0	454,0
10,0	409,0
11,0	372,0
12,0	337,0
14,0	283,0
16,0	243,0
18,0	212,0
20,0	188,0
22,0	168,0
24,0	152,0
26,0	138,0
*** n ***	49
m/s	14,3

m > < t

CODE >0197<

B154 0C00

	SP S 28m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 032 22.01

m	28,0
6,5	561,0
7,0	538,0
8,0	497,0
9,0	461,0
10,0	425,0
11,0	387,0
12,0	354,0
14,0	297,0
16,0	256,0
18,0	223,0
20,0	198,0
22,0	177,0
24,0	160,0
26,0	144,0
*** n ***	50
m/s	14,3

m > < t

CODE >0196<

B154 0C00

	SP S 28m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S 28m	--

073806 *** 031 22.01

m > < t CODE >0195< B154 0C00

m	28,0
6,5	567,0
7,0	544,0
8,0	502,0
9,0	466,0
10,0	435,0
11,0	401,0
12,0	368,0
14,0	312,0
16,0	268,0
18,0	235,0
20,0	208,0
22,0	187,0
24,0	169,0
26,0	144,0
*** n ***	50
m/s	14,3

SP S 28m	--	225 t	16.0 x 16.0 m	360°	

ISO DIN

SP S 28m	--

073806 *** 030 22.01

m > < t CODE >0194< B154 0C00

m	28,0
6,5	573,0
7,0	550,0
8,0	508,0
9,0	472,0
10,0	440,0
11,0	412,0
12,0	381,0
14,0	326,0
16,0	281,0
18,0	246,0
20,0	218,0
22,0	196,0
24,0	171,0
26,0	144,0
*** n ***	51
m/s	14,3

SP S 28m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 019 22.01

m > < t CODE >2709< B154 0D00

m	35,0
7,0	424,0
8,0	336,0
9,0	276,0
10,0	234,0
11,0	201,0
12,0	176,0
14,0	139,0
16,0	113,0
18,0	95,0
20,0	80,0
22,0	69,0
24,0	59,0
26,0	50,0
28,0	43,5
30,0	38,0
32,0	33,5
*** n ***	34
m/s	14,3

SP S 35m	--	50 t	12.0 x 12.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 018 22.01

m > < t CODE >2708< B154 0D00

m	35,0
7,0	487,0
8,0	410,0
9,0	338,0
10,0	287,0
11,0	248,0
12,0	218,0
14,0	173,0
16,0	142,0
18,0	120,0
20,0	103,0
22,0	88,0
24,0	75,0
26,0	65,0
28,0	57,0
30,0	51,0
32,0	45,0
*** n ***	41
m/s	14,3

SP S 35m	--	75 t	12.0 x 12.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 017 22.01

m > < t CODE >2707< B154 0D00

m	35,0
7,0	509,0
8,0	447,0
9,0	394,0
10,0	340,0
11,0	294,0
12,0	259,0
14,0	207,0
16,0	172,0
18,0	145,0
20,0	125,0
22,0	106,0
24,0	92,0
26,0	80,0
28,0	71,0
30,0	63,0
32,0	56,0
*** n ***	43
m/s	14,3

SP S 35m	--	100 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
35m	

073806 *** 016 22.01

m > < t

CODE >2706< B154 0D00

m	35,0
7,0	518,0
8,0	467,0
9,0	416,0
10,0	370,0
11,0	332,0
12,0	300,0
14,0	242,0
16,0	201,0
18,0	170,0
20,0	146,0
22,0	124,0
24,0	108,0
26,0	95,0
28,0	84,0
30,0	75,0
32,0	68,0
*** n ***	44
m/s	14,3

	SP S 35m	--	125 t	12.0 x 12.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 015 22.01

m > < t CODE >2705< B154 0D00

m	35,0
7,0	456,0
8,0	456,0
9,0	434,0
10,0	390,0
11,0	351,0
12,0	317,0
14,0	266,0
16,0	228,0
18,0	196,0
20,0	167,0
22,0	143,0
24,0	124,0
26,0	110,0
28,0	97,0
30,0	87,0
32,0	79,0
*** n ***	37
m/s	14,3

SP S 35m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
35m	

073806 *** 014 22.01

m	35,0													
12,0	335,0													
14,0	281,0													
16,0	241,0													
18,0	210,0													
20,0	186,0													
22,0	161,0													
24,0	141,0													
26,0	124,0													
28,0	111,0													
30,0	100,0													
32,0	90,0													
* n *	25													
m/s	14,3													

m > < t

CODE >2704<

B154 0D00

	SP S 35m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
35m	

073806 *** 013 22.01

m > < t CODE >2703< B154 0D00

m	35,0
18,0	221,0
20,0	196,0
22,0	175,0
24,0	157,0
26,0	139,0
28,0	124,0
30,0	112,0
32,0	102,0
*** n ***	16
m/s	14,3

SP S 35m	--	200 t	12.0 x 12.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 012 22.01

m	35,0													
	m > < t	CODE >2702<											B154 0D00	
24,0	166,0													
26,0	152,0													
28,0	138,0													
30,0	124,0													
32,0	110,0													
*** n ***	12													
m/s	14,3													

	SP S 35m	--	225 t	12.0 x 12.0 m	360°		

ISO DIN

SP S 35m	--

073806 *** 038 22.01

m > < t CODE >0211< B154 0D00

m	35,0
7,0	462,0
8,0	398,0
9,0	347,0
10,0	307,0
11,0	275,0
12,0	248,0
14,0	207,0
16,0	175,0
18,0	144,0
20,0	121,0
22,0	104,0
24,0	88,0
26,0	75,0
28,0	65,0
30,0	57,0
32,0	51,0
*** n ***	38
m/s	14,3

SP S 35m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 037 22.01

m > < t CODE >0210< B154 0D00

m	35,0
7,0	487,0
8,0	425,0
9,0	371,0
10,0	328,0
11,0	294,0
12,0	266,0
14,0	222,0
16,0	190,0
18,0	165,0
20,0	145,0
22,0	127,0
24,0	108,0
26,0	94,0
28,0	82,0
30,0	72,0
32,0	64,0
*** n ***	41
m/s	14,3

SP S 35m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
35m	

073806 *** 036 22.01

m > < t CODE >0209< B154 0D00

m	35,0
7,0	509,0
8,0	447,0
9,0	394,0
10,0	349,0
11,0	313,0
12,0	283,0
14,0	237,0
16,0	202,0
18,0	176,0
20,0	155,0
22,0	139,0
24,0	125,0
26,0	112,0
28,0	98,0
30,0	87,0
32,0	78,0
* n *	43
m/s	14,3

SP S 35m	--	100 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 035 22.01

m	35,0
7,0	516,0
8,0	467,0
9,0	416,0
10,0	370,0
11,0	332,0
12,0	300,0
14,0	251,0
16,0	215,0
18,0	187,0
20,0	166,0
22,0	148,0
24,0	133,0
26,0	121,0
28,0	110,0
30,0	101,0
32,0	92,0
*** n ***	44
m/s	14,3

m > < t

CODE >0208<

B154 0D00

	SP S 35m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 034 22.01

m > < t CODE >0207< B154 0D00

m	35,0
7,0	522,0
8,0	482,0
9,0	434,0
10,0	390,0
11,0	350,0
12,0	317,0
14,0	266,0
16,0	228,0
18,0	199,0
20,0	176,0
22,0	157,0
24,0	141,0
26,0	128,0
28,0	117,0
30,0	108,0
32,0	100,0
* n *	45
m/s	14,3

SP S 35m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 033 22.01

m > < t CODE >0206< B154 0D00

m	35,0
7,0	528,0
8,0	487,0
9,0	451,0
10,0	406,0
11,0	369,0
12,0	334,0
14,0	280,0
16,0	241,0
18,0	210,0
20,0	186,0
22,0	166,0
24,0	150,0
26,0	136,0
28,0	124,0
30,0	114,0
32,0	106,0
*** n ***	45
m/s	14,3

SP S 35m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 032 22.01

m > < t CODE >0205< B154 0D00

m	35,0
7,0	534,0
8,0	493,0
9,0	458,0
10,0	422,0
11,0	384,0
12,0	352,0
14,0	295,0
16,0	253,0
18,0	221,0
20,0	196,0
22,0	175,0
24,0	158,0
26,0	144,0
28,0	132,0
30,0	121,0
32,0	110,0
*** n ***	46
m/s	14,3

SP S 35m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 031 22.01

m	35,0
7,0	540,0
8,0	498,0
9,0	463,0
10,0	432,0
11,0	398,0
12,0	365,0
14,0	310,0
16,0	266,0
18,0	232,0
20,0	206,0
22,0	184,0
24,0	166,0
26,0	151,0
28,0	139,0
30,0	126,0
32,0	110,0
*** n ***	47
m/s	14,3

m > < t

CODE >0204<

B154 0D00

SP S 35m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S 35m	--

073806 *** 030 22.01

m	35,0
7,0	546,0
8,0	504,0
9,0	468,0
10,0	436,0
11,0	409,0
12,0	378,0
14,0	323,0
16,0	279,0
18,0	244,0
20,0	216,0
22,0	193,0
24,0	175,0
26,0	159,0
28,0	144,0
30,0	126,0
32,0	110,0
*** n ***	48
m/s	14,3

m > < t

CODE >0203<

B154 0D00

	SP S 35m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S 42m	--

073806 *** 019 22.01

m > < t CODE >2718< B154 0E00

m	42,0
8,0	299,0
9,0	249,0
10,0	213,0
11,0	185,0
12,0	162,0
14,0	129,0
16,0	105,0
18,0	88,0
20,0	74,0
22,0	63,0
24,0	55,0
26,0	47,5
28,0	41,5
30,0	36,0
32,0	32,0
34,0	27,8
36,0	24,2
38,0	21,0
40,0	18,3
*** n ***	22
m/s	14,3

SP S 42m	--	50 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 018 22.01

m > < t CODE >2717< B154 0E00

m	42,0
8,0	365,0
9,0	306,0
10,0	262,0
11,0	228,0
12,0	201,0
14,0	161,0
16,0	133,0
18,0	112,0
20,0	96,0
22,0	83,0
24,0	72,0
26,0	64,0
28,0	56,0
30,0	49,0
32,0	43,5
34,0	38,5
36,0	34,5
38,0	31,0
40,0	27,7
*** n ***	28
m/s	14,3

SP S 42m	--	75 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 017 22.01

m > < t CODE >2716< B154 0E00

m	42,0
8,0	432,0
9,0	362,0
10,0	311,0
11,0	271,0
12,0	240,0
14,0	194,0
16,0	161,0
18,0	136,0
20,0	117,0
22,0	102,0
24,0	90,0
26,0	79,0
28,0	69,0
30,0	61,0
32,0	55,0
34,0	49,0
36,0	44,5
38,0	40,0
40,0	36,5
*** n ***	35
m/s	14,3

	SP S 42m	--	100 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 016 22.01

m > < t CODE >2715< B154 0E00

m	42,0
8,0	465,0
9,0	414,0
10,0	360,0
11,0	315,0
12,0	279,0
14,0	226,0
16,0	188,0
18,0	160,0
20,0	139,0
22,0	122,0
24,0	107,0
26,0	93,0
28,0	83,0
30,0	74,0
32,0	66,0
34,0	60,0
36,0	54,0
38,0	49,5
40,0	45,5
*** n ***	38
m/s	14,3

	SP S 42m	--	125 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 015 22.01

m > < t CODE >2714< B154 0E00

m	42,0
8,0	445,0
9,0	431,0
10,0	388,0
11,0	349,0
12,0	315,0
14,0	258,0
16,0	216,0
18,0	185,0
20,0	160,0
22,0	141,0
24,0	123,0
26,0	108,0
28,0	96,0
30,0	86,0
32,0	77,0
34,0	70,0
36,0	64,0
38,0	59,0
40,0	54,0
*** n ***	36
m/s	14,3

	SP S 42m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 014 22.01

m > < t CODE >2713< B154 0E00

m	42,0
11,0	367,0
12,0	333,0
14,0	279,0
16,0	239,0
18,0	208,0
20,0	182,0
22,0	160,0
24,0	139,0
26,0	123,0
28,0	109,0
30,0	98,0
32,0	89,0
34,0	81,0
36,0	74,0
38,0	68,0
40,0	63,0
*** n ***	28
m/s	14,3

	SP S 42m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S 42m	--

073806 *** 013 22.01

m	42,0													
	m > < t	CODE >2712<											B154 0E00	
18,0	219,0													
20,0	194,0													
22,0	173,0													
24,0	156,0													
26,0	138,0													
28,0	123,0													
30,0	110,0													
32,0	100,0													
34,0	91,0													
36,0	84,0													
38,0	77,0													
40,0	71,0													
*** n ***	16													
m/s	14,3													

	SP S 42m	--	200 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 42m	--

073806 *** 012 22.01

m	42,0
22,0	182,0
24,0	164,0
26,0	149,0
28,0	136,0
30,0	123,0
32,0	111,0
34,0	102,0
36,0	93,0
38,0	86,0
40,0	74,0
*** n ***	13
m/s	14,3

m > < t

CODE >2711<

B154 0E00

	SP S 42m	--	
225 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 011 22.01

m	42,0
26,0	157,0
28,0	144,0
30,0	132,0
32,0	121,0
34,0	109,0
36,0	97,0
38,0	86,0
40,0	74,0
*** n ***	11
m/s	14,3

m > < t

CODE >2710<

B154 0E00

SP S	--	
42m		

250 t

12.0 x 12.0 m

360°

ISO DIN

SP S 42m	--

073806 *** 038 22.01

m	42,0
8,0	391,0
9,0	343,0
10,0	305,0
11,0	273,0
12,0	246,0
14,0	203,0
16,0	163,0
18,0	135,0
20,0	113,0
22,0	97,0
24,0	84,0
26,0	74,0
28,0	64,0
30,0	56,0
32,0	49,5
34,0	44,0
36,0	39,0
38,0	35,0
40,0	31,5
*** n ***	31
m/s	14,3

m > < t

CODE >0220<

B154 0E00

	SP S 42m	--	50 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 037 22.01

m > < t CODE >0219< B154 0E00

m	42,0
8,0	420,0
9,0	369,0
10,0	326,0
11,0	292,0
12,0	264,0
14,0	220,0
16,0	188,0
18,0	163,0
20,0	141,0
22,0	122,0
24,0	106,0
26,0	93,0
28,0	81,0
30,0	71,0
32,0	63,0
34,0	57,0
36,0	51,0
38,0	46,0
40,0	42,0
*** n ***	33
m/s	14,3

	SP S 42m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 036 22.01

m > < t CODE >0218< B154 0E00

m	42,0
8,0	445,0
9,0	392,0
10,0	347,0
11,0	311,0
12,0	281,0
14,0	235,0
16,0	200,0
18,0	174,0
20,0	153,0
22,0	137,0
24,0	123,0
26,0	111,0
28,0	97,0
30,0	86,0
32,0	77,0
34,0	69,0
36,0	63,0
38,0	57,0
40,0	52,0
*** n ***	36
m/s	14,3

	SP S 42m	--	100 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 035 22.01

m > < t CODE >0217< B154 0E00

m	42,0
8,0	465,0
9,0	414,0
10,0	368,0
11,0	330,0
12,0	298,0
14,0	249,0
16,0	213,0
18,0	185,0
20,0	163,0
22,0	146,0
24,0	131,0
26,0	119,0
28,0	108,0
30,0	99,0
32,0	91,0
34,0	82,0
36,0	74,0
38,0	68,0
40,0	62,0
*** n ***	38
m/s	14,3

SP S 42m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 034 22.01

m > < t CODE >0216< B154 0E00

m	42,0
8,0	479,0
9,0	431,0
10,0	388,0
11,0	349,0
12,0	315,0
14,0	264,0
16,0	226,0
18,0	197,0
20,0	174,0
22,0	155,0
24,0	139,0
26,0	126,0
28,0	115,0
30,0	106,0
32,0	97,0
34,0	90,0
36,0	84,0
38,0	78,0
40,0	73,0
*** n ***	40
m/s	14,3

	SP S 42m	--	150 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 033 22.01

m > < t CODE >0215< B154 0E00

m	42,0
8,0	484,0
9,0	449,0
10,0	404,0
11,0	367,0
12,0	333,0
14,0	278,0
16,0	239,0
18,0	208,0
20,0	184,0
22,0	164,0
24,0	148,0
26,0	134,0
28,0	122,0
30,0	112,0
32,0	104,0
34,0	96,0
36,0	89,0
38,0	83,0
40,0	74,0
*** n ***	40
m/s	14,3

SP S 42m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
42m	

073806 *** 032 22.01

m	42,0
8,0	490,0
9,0	455,0
10,0	420,0
11,0	382,0
12,0	349,0
14,0	293,0
16,0	251,0
18,0	219,0
20,0	194,0
22,0	173,0
24,0	156,0
26,0	142,0
28,0	129,0
30,0	119,0
32,0	110,0
34,0	102,0
36,0	95,0
38,0	86,0
40,0	74,0
*** n ***	41
m/s	14,3

m > < t

CODE >0214<

B154 0E00

	SP S 42m	--	
200 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
42m	

073806 *** 031 22.01

m	42,0
8,0	495,0
9,0	460,0
10,0	429,0
11,0	396,0
12,0	363,0
14,0	308,0
16,0	264,0
18,0	230,0
20,0	204,0
22,0	182,0
24,0	164,0
26,0	149,0
28,0	137,0
30,0	126,0
32,0	116,0
34,0	108,0
36,0	97,0
38,0	86,0
40,0	74,0
*** n ***	42
m/s	14,3

m > < t

CODE >0213<

B154 0E00

SP S 42m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S 42m	--

073806 *** 030 22.01

m > < t CODE >0212< B154 0E00

m	42,0
8,0	501,0
9,0	465,0
10,0	433,0
11,0	406,0
12,0	376,0
14,0	321,0
16,0	277,0
18,0	242,0
20,0	214,0
22,0	191,0
24,0	173,0
26,0	157,0
28,0	144,0
30,0	132,0
32,0	121,0
34,0	109,0
36,0	97,0
38,0	86,0
40,0	74,0
*** n ***	42
m/s	14,3

SP S 42m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 019 22.01

m > < t CODE >2727< B154 0F00

m	49,0
8,0	268,0
9,0	226,0
10,0	194,0
11,0	169,0
12,0	149,0
14,0	119,0
16,0	97,0
18,0	81,0
20,0	68,0
22,0	57,0
24,0	49,0
26,0	42,0
28,0	36,5
30,0	31,5
32,0	27,1
34,0	23,4
36,0	20,2
38,0	17,4
40,0	15,0
44,0	10,9
*** n ***	20
m/s	14,3

SP S 8) 49m	--	50 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 018 22.01

m > < t CODE >2726< B154 0F00

m	49,0
8,0	328,0
9,0	278,0
10,0	240,0
11,0	210,0
12,0	186,0
14,0	150,0
16,0	123,0
18,0	104,0
20,0	89,0
22,0	76,0
24,0	66,0
26,0	58,0
28,0	51,0
30,0	45,0
32,0	40,0
34,0	35,5
36,0	31,5
38,0	28,2
40,0	24,8
44,0	19,2
*** n ***	25
m/s	14,3

SP S 8) 49m	--	75 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 017 22.01

m > < t CODE >2725< B154 0F00

m	49,0
8,0	388,0
9,0	330,0
10,0	285,0
11,0	251,0
12,0	223,0
14,0	180,0
16,0	150,0
18,0	127,0
20,0	109,0
22,0	95,0
24,0	83,0
26,0	74,0
28,0	66,0
30,0	59,0
32,0	53,0
34,0	47,0
36,0	42,0
38,0	37,5
40,0	34,0
44,0	27,6
*** n ***	30
m/s	14,3

SP S 8) 49m	--	100 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 49m	

073806 *** 016 22.01

m > < t CODE >2724< B154 0F00

m	49,0
8,0	449,0
9,0	382,0
10,0	331,0
11,0	291,0
12,0	259,0
14,0	211,0
16,0	177,0
18,0	150,0
20,0	130,0
22,0	114,0
24,0	101,0
26,0	89,0
28,0	80,0
30,0	72,0
32,0	64,0
34,0	57,0
36,0	52,0
38,0	47,0
40,0	42,5
44,0	35,5
*** n ***	36
m/s	14,3

	SP S 8) 49m	--	125 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 8) 49m	--

073806 *** 015 22.01

m > < t CODE >2723< B154 0F00

m	49,0
8,0	442,0
9,0	428,0
10,0	377,0
11,0	332,0
12,0	296,0
14,0	242,0
16,0	203,0
18,0	174,0
20,0	151,0
22,0	133,0
24,0	118,0
26,0	105,0
28,0	94,0
30,0	84,0
32,0	75,0
34,0	68,0
36,0	62,0
38,0	56,0
40,0	51,0
44,0	43,5
* n *	36
m/s	14,3

SP S 8) 49m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 014 22.01

m > < t CODE >2722< B154 0F00

m	49,0
9,0	394,0
10,0	399,0
11,0	364,0
12,0	330,0
14,0	273,0
16,0	229,0
18,0	197,0
20,0	172,0
22,0	151,0
24,0	135,0
26,0	121,0
28,0	107,0
30,0	96,0
32,0	87,0
34,0	78,0
36,0	71,0
38,0	65,0
40,0	60,0
44,0	51,0
*** n ***	31
m/s	14,3

SP S 8) 49m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 49m	--

073806 *** 013 22.01

m > < t CODE >2721< B154 0F00

m	49,0
16,0	249,0
18,0	217,0
20,0	191,0
22,0	170,0
24,0	152,0
26,0	136,0
28,0	121,0
30,0	108,0
32,0	98,0
34,0	89,0
36,0	81,0
38,0	75,0
40,0	69,0
44,0	59,0
*** n ***	18
m/s	14,3

SP S 8) 49m	--	200 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 49m	

073806 *** 012 22.01

m > < t CODE >2720< B154 0F00

m	49,0
20,0	201,0
22,0	180,0
24,0	162,0
26,0	147,0
28,0	134,0
30,0	121,0
32,0	109,0
34,0	99,0
36,0	91,0
38,0	84,0
40,0	77,0
44,0	66,0
*** n ***	14
m/s	14,3

SP S 8) 49m	--	225 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 8) 49m	--

073806 *** 011 22.01

m	49,0
24,0	170,0
26,0	154,0
28,0	141,0
30,0	129,0
32,0	119,0
34,0	110,0
36,0	101,0
38,0	92,0
40,0	83,0
44,0	66,0
*** n ***	12
m/s	14,3

m > < t

CODE >2719<

B154 0F00

	SP S 8) 49m	--	
250 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 49m	

073806 *** 038 22.01

m > < t CODE >0229< B154 0F00

m	49,0
8,0	381,0
9,0	335,0
10,0	298,0
11,0	268,0
12,0	242,0
14,0	188,0
16,0	152,0
18,0	125,0
20,0	106,0
22,0	90,0
24,0	78,0
26,0	68,0
28,0	59,0
30,0	52,0
32,0	46,5
34,0	41,5
36,0	37,0
38,0	32,5
40,0	28,8
44,0	22,5
*** n ***	30
m/s	14,3

SP S 8) 49m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 037 22.01

m > < t CODE >0228< B154 0F00

m	49,0
8,0	410,0
9,0	361,0
10,0	321,0
11,0	289,0
12,0	261,0
14,0	217,0
16,0	185,0
18,0	155,0
20,0	132,0
22,0	114,0
24,0	99,0
26,0	87,0
28,0	77,0
30,0	69,0
32,0	61,0
34,0	54,0
36,0	48,5
38,0	43,5
40,0	39,5
44,0	32,5
*** n ***	32
m/s	14,3

SP S 8) 49m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 49m	--

073806 *** 036 22.01

m	49,0
8,0	439,0
9,0	387,0
10,0	345,0
11,0	308,0
12,0	278,0
14,0	232,0
16,0	198,0
18,0	171,0
20,0	151,0
22,0	134,0
24,0	120,0
26,0	107,0
28,0	95,0
30,0	84,0
32,0	75,0
34,0	67,0
36,0	61,0
38,0	55,0
40,0	49,5
44,0	41,5
*** n ***	35
m/s	14,3

m > < t

CODE >0227<

B154 0F00

	SP S 8) 49m	--	
100 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 49m	

073806 *** 035 22.01

m > < t CODE >0226< B154 0F00

m	49,0
8,0	462,0
9,0	411,0
10,0	365,0
11,0	327,0
12,0	296,0
14,0	247,0
16,0	210,0
18,0	183,0
20,0	161,0
22,0	143,0
24,0	128,0
26,0	116,0
28,0	105,0
30,0	96,0
32,0	88,0
34,0	80,0
36,0	72,0
38,0	66,0
40,0	60,0
44,0	51,0
*** n ***	38
m/s	14,3

SP S 8) 49m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 034 22.01

m > < t CODE >0225< B154 0F00

m	49,0
8,0	475,0
9,0	428,0
10,0	385,0
11,0	346,0
12,0	313,0
14,0	261,0
16,0	223,0
18,0	194,0
20,0	171,0
22,0	152,0
24,0	137,0
26,0	124,0
28,0	112,0
30,0	103,0
32,0	95,0
34,0	87,0
36,0	81,0
38,0	75,0
40,0	70,0
44,0	60,0
*** n ***	39
m/s	14,3

SP S 8) 49m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 49m	--

073806 *** 033 22.01

m > < t CODE >0224< B154 0F00

m	49,0
8,0	480,0
9,0	446,0
10,0	401,0
11,0	364,0
12,0	330,0
14,0	276,0
16,0	236,0
18,0	205,0
20,0	181,0
22,0	161,0
24,0	145,0
26,0	131,0
28,0	120,0
30,0	110,0
32,0	101,0
34,0	93,0
36,0	86,0
38,0	80,0
40,0	75,0
44,0	66,0
*** n ***	40
m/s	14,3

SP S 8) 49m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 032 22.01

m > < t CODE >0223< B154 0F00

m	49,0
8,0	486,0
9,0	451,0
10,0	417,0
11,0	379,0
12,0	346,0
14,0	291,0
16,0	249,0
18,0	217,0
20,0	191,0
22,0	170,0
24,0	153,0
26,0	139,0
28,0	127,0
30,0	116,0
32,0	107,0
34,0	99,0
36,0	92,0
38,0	86,0
40,0	80,0
44,0	66,0
*** n ***	41
m/s	14,3

SP S 8) 49m	--	200 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 49m	

073806 *** 031 22.01

m > < t CODE >0222< B154 0F00

m	49,0
8,0	491,0
9,0	456,0
10,0	425,0
11,0	393,0
12,0	360,0
14,0	305,0
16,0	261,0
18,0	228,0
20,0	201,0
22,0	180,0
24,0	162,0
26,0	147,0
28,0	134,0
30,0	123,0
32,0	113,0
34,0	105,0
36,0	97,0
38,0	91,0
40,0	83,0
44,0	66,0
*** n ***	41
m/s	14,3

SP S 8) 49m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 49m	

073806 *** 030 22.01

m > < t CODE >0221< B154 0F00

m	49,0
8,0	497,0
9,0	461,0
10,0	430,0
11,0	402,0
12,0	373,0
14,0	318,0
16,0	274,0
18,0	239,0
20,0	211,0
22,0	189,0
24,0	170,0
26,0	154,0
28,0	141,0
30,0	129,0
32,0	119,0
34,0	111,0
36,0	101,0
38,0	92,0
40,0	83,0
44,0	66,0
*** n ***	42
m/s	14,3

SP S 8) 49m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 018 22.01

m > < t

CODE >2735< B154 1000

m	56,0
9,0	254,0
10,0	221,0
11,0	194,0
12,0	173,0
14,0	139,0
16,0	115,0
18,0	97,0
20,0	82,0
22,0	71,0
24,0	61,0
26,0	53,0
28,0	46,5
30,0	40,5
32,0	35,5
34,0	31,5
36,0	27,5
38,0	24,1
40,0	21,1
44,0	16,2
48,0	12,3
52,0	8,8
*** n ***	18
m/s	14,3

SP S	--	75 t	12.0 x 12.0 m	360°
8) 56m				

ISO DIN

SP S	--
8) 56m	

073806 *** 017 22.01

m > < t CODE >2734< B154 1000

m	56,0
9,0	302,0
10,0	263,0
11,0	232,0
12,0	207,0
14,0	169,0
16,0	141,0
18,0	119,0
20,0	103,0
22,0	89,0
24,0	78,0
26,0	69,0
28,0	61,0
30,0	54,0
32,0	48,0
34,0	43,0
36,0	38,5
38,0	34,5
40,0	31,0
44,0	25,1
48,0	19,8
52,0	15,7
* n *	22
m/s	14,3

SP S 8) 56m	--	100 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 016 22.01

m > < t CODE >2733< B154 1000

m	56,0
9,0	350,0
10,0	306,0
11,0	271,0
12,0	242,0
14,0	198,0
16,0	166,0
18,0	142,0
20,0	123,0
22,0	107,0
24,0	94,0
26,0	84,0
28,0	75,0
30,0	67,0
32,0	60,0
34,0	55,0
36,0	49,5
38,0	45,0
40,0	40,5
44,0	33,5
48,0	27,3
52,0	22,6
*** n ***	27
m/s	14,3

	SP S 8) 56m	--	125 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 8) 56m	--

073806 *** 015 22.01

m > < t CODE >2732< B154 1000

m	56,0
9,0	398,0
10,0	349,0
11,0	309,0
12,0	277,0
14,0	228,0
16,0	192,0
18,0	164,0
20,0	143,0
22,0	125,0
24,0	111,0
26,0	99,0
28,0	89,0
30,0	80,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	49,5
44,0	41,5
48,0	35,0
52,0	29,4
* n *	31
m/s	14,3

SP S 8) 56m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 014 22.01

m > < t CODE >2731< B154 1000

m	56,0
9,0	390,0
10,0	391,0
11,0	347,0
12,0	312,0
14,0	257,0
16,0	217,0
18,0	187,0
20,0	163,0
22,0	143,0
24,0	128,0
26,0	114,0
28,0	103,0
30,0	93,0
32,0	85,0
34,0	77,0
36,0	70,0
38,0	63,0
40,0	58,0
44,0	49,0
48,0	42,0
52,0	36,0
*** n ***	31
m/s	14,3

SP S 8) 56m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 56m	--

073806 *** 013 22.01

m	56,0
12,0	344,0
14,0	286,0
16,0	242,0
18,0	209,0
20,0	183,0
22,0	161,0
24,0	144,0
26,0	130,0
28,0	117,0
30,0	107,0
32,0	96,0
34,0	87,0
36,0	79,0
38,0	73,0
40,0	67,0
44,0	57,0
48,0	49,0
52,0	42,5
*** n ***	26
m/s	14,3

m > < t

CODE >2730<

B154 1000

SP S 8) 56m	--	200 t	12.0 x 12.0 m

360°

ISO DIN

SP S 8) 56m	--

073806 *** 012 22.01

m > < t CODE >2729< B154 1000

m	56,0
18,0	226,0
20,0	199,0
22,0	177,0
24,0	160,0
26,0	144,0
28,0	131,0
30,0	119,0
32,0	107,0
34,0	98,0
36,0	89,0
38,0	82,0
40,0	75,0
44,0	65,0
48,0	56,0
52,0	45,5
*** n ***	16
m/s	14,3

SP S 8) 56m	--	225 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 011 22.01

m > < t CODE >2728< B154 1000

m	56,0
22,0	187,0
24,0	168,0
26,0	152,0
28,0	139,0
30,0	127,0
32,0	117,0
34,0	108,0
36,0	99,0
38,0	91,0
40,0	84,0
44,0	71,0
48,0	58,0
52,0	45,5
*** n ***	13
m/s	14,3

SP S 8) 56m	--	250 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 038 22.01

m > < t CODE >0238< B154 1000

m	56,0
9,0	327,0
10,0	291,0
11,0	257,0
12,0	224,0
14,0	175,0
16,0	142,0
18,0	117,0
20,0	99,0
22,0	84,0
24,0	73,0
26,0	63,0
28,0	55,0
30,0	48,0
32,0	42,0
34,0	37,0
36,0	32,5
38,0	28,9
40,0	25,5
44,0	19,9
48,0	15,1
52,0	11,2
* n *	25
m/s	14,3

SP S 8) 56m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 56m	--

073806 *** 037 22.01

m > < t CODE >0237< B154 1000

m	56,0
9,0	352,0
10,0	314,0
11,0	283,0
12,0	256,0
14,0	214,0
16,0	175,0
18,0	146,0
20,0	124,0
22,0	107,0
24,0	93,0
26,0	82,0
28,0	72,0
30,0	64,0
32,0	57,0
34,0	51,0
36,0	46,0
38,0	41,5
40,0	37,5
44,0	29,9
48,0	23,9
52,0	19,2
*** n ***	27
m/s	14,3

SP S 8) 56m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 036 22.01

m > < t CODE >0236< B154 1000

m	56,0
9,0	377,0
10,0	337,0
11,0	304,0
12,0	275,0
14,0	230,0
16,0	196,0
18,0	169,0
20,0	149,0
22,0	130,0
24,0	114,0
26,0	100,0
28,0	89,0
30,0	80,0
32,0	72,0
34,0	65,0
36,0	59,0
38,0	53,0
40,0	48,0
44,0	39,5
48,0	32,5
52,0	27,3
* n *	29
m/s	14,3

SP S 8) 56m	--	100 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 56m	--

073806 *** 035 22.01

m > < t CODE >0235< B154 1000

m	56,0
9,0	403,0
10,0	360,0
11,0	325,0
12,0	294,0
14,0	245,0
16,0	208,0
18,0	181,0
20,0	159,0
22,0	141,0
24,0	126,0
26,0	114,0
28,0	103,0
30,0	94,0
32,0	86,0
34,0	78,0
36,0	71,0
38,0	64,0
40,0	58,0
44,0	48,5
48,0	41,0
52,0	35,5
*** n ***	32
m/s	14,3

SP S 8) 56m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 56m	--

073806 *** 034 22.01

m > < t CODE >0234< B154 1000

m	56,0
9,0	426,0
10,0	383,0
11,0	344,0
12,0	311,0
14,0	259,0
16,0	221,0
18,0	192,0
20,0	169,0
22,0	150,0
24,0	134,0
26,0	121,0
28,0	110,0
30,0	101,0
32,0	92,0
34,0	85,0
36,0	79,0
38,0	73,0
40,0	68,0
44,0	58,0
48,0	49,5
52,0	43,0
*** n ***	34
m/s	14,3

SP S 8) 56m	--	150 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 56m	

073806 *** 033 22.01

m > < t CODE >0233< B154 1000

m	56,0
9,0	443,0
10,0	399,0
11,0	362,0
12,0	328,0
14,0	274,0
16,0	234,0
18,0	203,0
20,0	179,0
22,0	159,0
24,0	143,0
26,0	129,0
28,0	117,0
30,0	107,0
32,0	99,0
34,0	91,0
36,0	84,0
38,0	78,0
40,0	73,0
44,0	63,0
48,0	56,0
52,0	45,5
* n *	36
m/s	14,3

SP S 8) 56m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 032 22.01

m > < t CODE >0232< B154 1000

m	56,0
9,0	448,0
10,0	415,0
11,0	376,0
12,0	344,0
14,0	288,0
16,0	247,0
18,0	214,0
20,0	189,0
22,0	168,0
24,0	151,0
26,0	137,0
28,0	124,0
30,0	114,0
32,0	105,0
34,0	97,0
36,0	90,0
38,0	83,0
40,0	78,0
44,0	68,0
48,0	58,0
52,0	45,5
*** n ***	36
m/s	14,3

SP S 8) 56m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 56m	--

073806 *** 031 22.01

m > < t CODE >0231< B154 1000

m	56,0
9,0	453,0
10,0	422,0
11,0	391,0
12,0	358,0
14,0	303,0
16,0	259,0
18,0	226,0
20,0	199,0
22,0	177,0
24,0	159,0
26,0	144,0
28,0	132,0
30,0	121,0
32,0	111,0
34,0	103,0
36,0	95,0
38,0	88,0
40,0	83,0
44,0	71,0
48,0	58,0
52,0	45,5
* n *	37
m/s	14,3

	SP S 8) 56m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 56m	

073806 *** 030 22.01

m > < t CODE >0230< B154 1000

m	56,0
9,0	458,0
10,0	427,0
11,0	399,0
12,0	371,0
14,0	316,0
16,0	272,0
18,0	237,0
20,0	209,0
22,0	187,0
24,0	168,0
26,0	152,0
28,0	139,0
30,0	127,0
32,0	117,0
34,0	108,0
36,0	101,0
38,0	93,0
40,0	85,0
44,0	71,0
48,0	58,0
52,0	45,5
*** n ***	37
m/s	14,3

SP S 8) 56m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 63m	--

073806 *** 016 22.01

m > < t

CODE >2741<

B154 1100

m	63,0
10,0	286,0
11,0	254,0
12,0	228,0
14,0	188,0
16,0	158,0
18,0	135,0
20,0	117,0
22,0	102,0
24,0	90,0
26,0	79,0
28,0	71,0
30,0	63,0
32,0	57,0
34,0	51,0
36,0	46,0
38,0	41,5
40,0	37,5
44,0	30,5
48,0	25,1
52,0	20,0
56,0	15,9
*** n ***	21
m/s	14,3

SP S 8) 63m	--	125 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 63m	--

073806 *** 015 22.01

m > < t

CODE >2740<

B154 1100

m	63,0
10,0	326,0
11,0	291,0
12,0	261,0
14,0	216,0
16,0	182,0
18,0	157,0
20,0	136,0
22,0	120,0
24,0	106,0
26,0	94,0
28,0	85,0
30,0	76,0
32,0	69,0
34,0	62,0
36,0	57,0
38,0	52,0
40,0	47,0
44,0	39,5
48,0	32,5
52,0	26,8
56,0	22,2
*** n ***	25
m/s	14,3

SP S 8) 63m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 014 22.01

m > < t CODE >2739< B154 1100

m	63,0
10,0	366,0
11,0	327,0
12,0	294,0
14,0	244,0
16,0	207,0
18,0	178,0
20,0	156,0
22,0	137,0
24,0	122,0
26,0	109,0
28,0	98,0
30,0	89,0
32,0	81,0
34,0	74,0
36,0	67,0
38,0	62,0
40,0	56,0
44,0	47,5
48,0	40,0
52,0	33,5
56,0	28,5
*** n ***	28
m/s	14,3

SP S 8) 63m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 013 22.01

m > < t CODE >2738< B154 1100

m	63,0
11,0	358,0
12,0	327,0
14,0	272,0
16,0	231,0
18,0	200,0
20,0	175,0
22,0	155,0
24,0	138,0
26,0	124,0
28,0	112,0
30,0	102,0
32,0	93,0
34,0	85,0
36,0	78,0
38,0	71,0
40,0	65,0
44,0	55,0
48,0	47,0
52,0	40,5
56,0	35,0
*** n ***	27
m/s	14,3

SP S 8) 63m	--	200 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 63m	--

073806 *** 012 22.01

m > < t CODE >2737< B154 1100

m	63,0
16,0	255,0
18,0	221,0
20,0	194,0
22,0	172,0
24,0	154,0
26,0	139,0
28,0	126,0
30,0	115,0
32,0	105,0
34,0	96,0
36,0	88,0
38,0	80,0
40,0	74,0
44,0	63,0
48,0	54,0
52,0	47,0
56,0	39,5
*** n ***	18
m/s	14,3

SP S 8) 63m	--	225 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 63m	--

073806 *** 011 22.01

m	63,0
20,0	208,0
22,0	185,0
24,0	166,0
26,0	151,0
28,0	137,0
30,0	126,0
32,0	115,0
34,0	107,0
36,0	98,0
38,0	90,0
40,0	82,0
44,0	71,0
48,0	60,0
52,0	49,0
56,0	39,5
*** n ***	15
m/s	14,3

m > < t

CODE >2736<

B154 1100

SP S 8) 63m	--	250 t	12.0 x 12.0 m

360°

ISO DIN

SP S	--
8) 63m	

073806 *** 038 22.01

m > < t CODE >0247< B154 1100

m	63,0
10,0	277,0
11,0	239,0
12,0	209,0
14,0	165,0
16,0	134,0
18,0	111,0
20,0	94,0
22,0	80,0
24,0	69,0
26,0	59,0
28,0	51,0
30,0	44,5
32,0	39,0
34,0	34,0
36,0	29,5
38,0	25,7
40,0	22,3
44,0	16,6
48,0	12,0
52,0	8,4
56,0	5,5
*** n ***	20
m/s	14,3

SP S 8) 63m	--	50 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 037 22.01

m > < t CODE >0246< B154 1100

m	63,0
10,0	304,0
11,0	276,0
12,0	251,0
14,0	202,0
16,0	166,0
18,0	139,0
20,0	118,0
22,0	102,0
24,0	89,0
26,0	77,0
28,0	68,0
30,0	60,0
32,0	54,0
34,0	47,5
36,0	42,5
38,0	38,0
40,0	34,0
44,0	27,1
48,0	21,6
52,0	16,8
56,0	12,8
*** n ***	23
m/s	14,3

SP S 8) 63m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 036 22.01

m > < t CODE >0245< B154 1100

m	63,0
10,0	326,0
11,0	297,0
12,0	270,0
14,0	226,0
16,0	193,0
18,0	167,0
20,0	143,0
22,0	124,0
24,0	109,0
26,0	96,0
28,0	85,0
30,0	76,0
32,0	68,0
34,0	61,0
36,0	55,0
38,0	50,0
40,0	45,5
44,0	37,5
48,0	30,5
52,0	24,9
56,0	20,2
*** n ***	25
m/s	14,3

SP S 8) 63m	--	100 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 63m	

073806 *** 035 22.01

m > < t CODE >0244< B154 1100

m	63,0
10,0	348,0
11,0	317,0
12,0	289,0
14,0	243,0
16,0	207,0
18,0	179,0
20,0	157,0
22,0	139,0
24,0	124,0
26,0	112,0
28,0	101,0
30,0	92,0
32,0	83,0
34,0	75,0
36,0	68,0
38,0	62,0
40,0	57,0
44,0	47,0
48,0	39,5
52,0	33,0
56,0	27,5
*** n ***	26
m/s	14,3

SP S 8) 63m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 63m	--

073806 *** 034 22.01

m > < t CODE >0243< B154 1100

m	63,0
10,0	371,0
11,0	338,0
12,0	308,0
14,0	258,0
16,0	220,0
18,0	190,0
20,0	167,0
22,0	148,0
24,0	133,0
26,0	120,0
28,0	109,0
30,0	99,0
32,0	91,0
34,0	83,0
36,0	77,0
38,0	71,0
40,0	66,0
44,0	56,0
48,0	48,0
52,0	41,0
56,0	35,0
*** n ***	29
m/s	14,3

SP S 8) 63m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 033 22.01

m > < t CODE >0242< B154 1100

m	63,0
10,0	393,0
11,0	358,0
12,0	327,0
14,0	272,0
16,0	232,0
18,0	202,0
20,0	177,0
22,0	158,0
24,0	141,0
26,0	127,0
28,0	116,0
30,0	106,0
32,0	97,0
34,0	89,0
36,0	82,0
38,0	76,0
40,0	71,0
44,0	61,0
48,0	54,0
52,0	47,5
56,0	39,5
*** n ***	31
m/s	14,3

SP S 8) 63m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 032 22.01

m > < t CODE >0241< B154 1100

m	63,0
10,0	413,0
11,0	375,0
12,0	343,0
14,0	287,0
16,0	245,0
18,0	213,0
20,0	187,0
22,0	167,0
24,0	150,0
26,0	135,0
28,0	123,0
30,0	112,0
32,0	103,0
34,0	95,0
36,0	88,0
38,0	81,0
40,0	76,0
44,0	66,0
48,0	58,0
52,0	49,0
56,0	39,5
*** n ***	33
m/s	14,3

SP S 8) 63m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 031 22.01

m > < t CODE >0240< B154 1100

m	63,0
10,0	419,0
11,0	389,0
12,0	356,0
14,0	302,0
16,0	258,0
18,0	224,0
20,0	197,0
22,0	176,0
24,0	158,0
26,0	143,0
28,0	130,0
30,0	119,0
32,0	109,0
34,0	101,0
36,0	93,0
38,0	87,0
40,0	81,0
44,0	70,0
48,0	60,0
52,0	49,0
56,0	39,5
*** n ***	33
m/s	14,3

SP S 8) 63m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 63m	

073806 *** 030 22.01

m > < t CODE >0239< B154 1100

m	63,0
10,0	424,0
11,0	397,0
12,0	369,0
14,0	314,0
16,0	271,0
18,0	235,0
20,0	208,0
22,0	185,0
24,0	166,0
26,0	150,0
28,0	137,0
30,0	125,0
32,0	115,0
34,0	107,0
36,0	99,0
38,0	91,0
40,0	84,0
44,0	71,0
48,0	60,0
52,0	49,0
56,0	39,5
*** n ***	34
m/s	14,3

SP S 8) 63m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 015 22.01

m > < t CODE >2746< B154 1200

m	70,0
10,0	305,0
11,0	273,0
12,0	246,0
14,0	204,0
16,0	173,0
18,0	149,0
20,0	130,0
22,0	114,0
24,0	101,0
26,0	90,0
28,0	80,0
30,0	72,0
32,0	65,0
34,0	58,0
36,0	53,0
38,0	48,0
40,0	43,5
44,0	36,0
48,0	29,7
52,0	24,6
56,0	19,9
60,0	15,9
64,0	12,7
* n *	23
m/s	12,8

SP S 8) 70m	--	150 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 014 22.01

m > < t

CODE >2745< B154 1200

m	70,0
10,0	343,0
11,0	307,0
12,0	278,0
14,0	231,0
16,0	197,0
18,0	170,0
20,0	148,0
22,0	131,0
24,0	116,0
26,0	104,0
28,0	94,0
30,0	84,0
32,0	77,0
34,0	70,0
36,0	63,0
38,0	58,0
40,0	53,0
44,0	44,5
48,0	37,5
52,0	31,5
56,0	26,2
60,0	21,8
64,0	18,1
*** n ***	26
m/s	12,8

SP S 8) 70m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 013 22.01

m > < t

CODE >2744<

B154 1200

m	70,0
10,0	350,0
11,0	341,0
12,0	309,0
14,0	258,0
16,0	220,0
18,0	191,0
20,0	167,0
22,0	148,0
24,0	132,0
26,0	119,0
28,0	107,0
30,0	97,0
32,0	88,0
34,0	81,0
36,0	74,0
38,0	68,0
40,0	62,0
44,0	53,0
48,0	45,5
52,0	38,5
56,0	32,5
60,0	27,6
64,0	23,5
*** n ***	27
m/s	12,8

SP S 8) 70m	--	200 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 012 22.01

m > < t CODE >2743< B154 1200

m	70,0
14,0	285,0
16,0	244,0
18,0	212,0
20,0	186,0
22,0	165,0
24,0	148,0
26,0	133,0
28,0	120,0
30,0	110,0
32,0	100,0
34,0	92,0
36,0	84,0
38,0	78,0
40,0	72,0
44,0	61,0
48,0	52,0
52,0	45,0
56,0	39,0
60,0	32,5
64,0	25,0
*** n ***	21
m/s	12,8

SP S 8) 70m	--	225 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 70m	

073806 *** 011 22.01

m > < t CODE >2742< B154 1200

m	70,0
18,0	232,0
20,0	205,0
22,0	182,0
24,0	163,0
26,0	147,0
28,0	134,0
30,0	122,0
32,0	112,0
34,0	103,0
36,0	95,0
38,0	88,0
40,0	81,0
44,0	69,0
48,0	59,0
52,0	49,5
56,0	41,0
60,0	32,5
64,0	25,0
*** n ***	17
m/s	12,8

	SP S 8) 70m	--	250 t	12.0 x 12.0 m	360°	

ISO DIN

SP S 8) 70m	--

073806 *** 038 22.01

m > < t CODE >0256< B154 1200

m	70,0
10,0	242,0
11,0	222,0
12,0	195,0
14,0	155,0
16,0	126,0
18,0	105,0
20,0	88,0
22,0	75,0
24,0	64,0
26,0	55,0
28,0	47,5
30,0	41,0
32,0	35,5
34,0	30,5
36,0	26,4
38,0	22,7
40,0	19,3
44,0	13,6
48,0	9,0
52,0	5,2
*** n ***	17
m/s	12,8

SP S 8) 70m	--	50 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 70m	

073806 *** 037 22.01

m > < t CODE >0255< B154 1200

m	70,0
10,0	290,0
11,0	264,0
12,0	238,0
14,0	191,0
16,0	157,0
18,0	132,0
20,0	112,0
22,0	97,0
24,0	84,0
26,0	73,0
28,0	64,0
30,0	57,0
32,0	50,0
34,0	44,0
36,0	39,0
38,0	34,5
40,0	30,5
44,0	23,9
48,0	18,4
52,0	13,9
56,0	10,2
60,0	7,2
64,0	4,4
* n *	21
m/s	12,8

SP S 8) 70m	--	75 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 036 22.01

m > < t CODE >0254< B154 1200

m	70,0
10,0	312,0
11,0	284,0
12,0	261,0
14,0	221,0
16,0	187,0
18,0	158,0
20,0	136,0
22,0	118,0
24,0	103,0
26,0	91,0
28,0	81,0
30,0	72,0
32,0	64,0
34,0	58,0
36,0	52,0
38,0	46,5
40,0	42,0
44,0	34,0
48,0	27,8
52,0	22,6
56,0	18,0
60,0	14,0
64,0	10,8
*** n ***	23
m/s	12,8

SP S 8) 70m	--	100 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 035 22.01

m > < t CODE >0253< B154 1200

m	70,0
10,0	334,0
11,0	304,0
12,0	279,0
14,0	238,0
16,0	203,0
18,0	176,0
20,0	155,0
22,0	137,0
24,0	122,0
26,0	109,0
28,0	97,0
30,0	87,0
32,0	79,0
34,0	71,0
36,0	64,0
38,0	59,0
40,0	53,0
44,0	44,5
48,0	37,5
52,0	31,0
56,0	25,4
60,0	20,8
64,0	17,1
*** n ***	25
m/s	12,8

SP S 8) 70m	--	125 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 034 22.01

m > < t CODE >0252< B154 1200

m	70,0
10,0	355,0
11,0	324,0
12,0	297,0
14,0	254,0
16,0	218,0
18,0	189,0
20,0	166,0
22,0	147,0
24,0	131,0
26,0	118,0
28,0	107,0
30,0	97,0
32,0	89,0
34,0	81,0
36,0	75,0
38,0	68,0
40,0	63,0
44,0	54,0
48,0	46,0
52,0	39,0
56,0	32,5
60,0	27,6
64,0	23,4
*** n ***	27
m/s	12,8

SP S 8) 70m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 033 22.01

m > < t CODE >0251< B154 1200

m	70,0
10,0	377,0
11,0	344,0
12,0	316,0
14,0	270,0
16,0	231,0
18,0	200,0
20,0	176,0
22,0	156,0
24,0	140,0
26,0	126,0
28,0	114,0
30,0	104,0
32,0	95,0
34,0	87,0
36,0	80,0
38,0	74,0
40,0	69,0
44,0	59,0
48,0	51,0
52,0	44,5
56,0	38,5
60,0	32,5
64,0	25,0
*** n ***	29
m/s	12,8

SP S	--	175 t	16.0 x 16.0 m	360°
8) 70m				

ISO DIN

SP S	--
8) 70m	

073806 *** 032 22.01

m > < t CODE >0250< B154 1200

m	70,0
10,0	398,0
11,0	364,0
12,0	334,0
14,0	286,0
16,0	244,0
18,0	211,0
20,0	186,0
22,0	165,0
24,0	148,0
26,0	133,0
28,0	121,0
30,0	110,0
32,0	101,0
34,0	93,0
36,0	86,0
38,0	80,0
40,0	74,0
44,0	64,0
48,0	56,0
52,0	48,5
56,0	41,0
60,0	32,5
64,0	25,0
* n *	31
m/s	12,8

SP S 8) 70m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 031 22.01

m > < t CODE >0249< B154 1200

m	70,0
10,0	411,0
11,0	384,0
12,0	353,0
14,0	300,0
16,0	256,0
18,0	223,0
20,0	196,0
22,0	174,0
24,0	156,0
26,0	141,0
28,0	128,0
30,0	117,0
32,0	107,0
34,0	99,0
36,0	91,0
38,0	85,0
40,0	79,0
44,0	68,0
48,0	59,0
52,0	49,5
56,0	41,0
60,0	32,5
64,0	25,0
*** n ***	33
m/s	12,8

SP S 8) 70m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 70m	

073806 *** 030 22.01

m > < t CODE >0248< B154 1200

m	70,0
10,0	411,0
11,0	394,0
12,0	368,0
14,0	313,0
16,0	269,0
18,0	234,0
20,0	206,0
22,0	183,0
24,0	165,0
26,0	149,0
28,0	135,0
30,0	124,0
32,0	114,0
34,0	105,0
36,0	97,0
38,0	90,0
40,0	83,0
44,0	70,0
48,0	59,0
52,0	49,5
56,0	41,0
60,0	32,5
64,0	25,0
* n *	33
m/s	12,8

SP S 8) 70m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 77m	

073806 *** 014 22.01

m > < t

CODE >2750< B154 1300

m	77,0
11,0	291,0
12,0	264,0
14,0	221,0
16,0	188,0
18,0	163,0
20,0	143,0
22,0	126,0
24,0	112,0
26,0	100,0
28,0	90,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	55,0
40,0	50,0
44,0	41,5
48,0	34,5
52,0	28,9
56,0	24,0
60,0	19,7
64,0	15,8
68,0	12,5
72,0	9,8
*** n ***	21
m/s	12,8

	SP S 8) 77m	--	175 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 77m	--

073806 *** 013 22.01

m	77,0
11,0	323,0
12,0	294,0
14,0	247,0
16,0	211,0
18,0	183,0
20,0	161,0
22,0	143,0
24,0	127,0
26,0	114,0
28,0	103,0
30,0	93,0
32,0	85,0
34,0	77,0
36,0	71,0
38,0	65,0
40,0	59,0
44,0	50,0
48,0	42,5
52,0	36,0
56,0	30,5
60,0	25,5
64,0	21,2
68,0	17,6
72,0	13,5
*** n ***	24
m/s	12,8

m > < t

CODE >2749<

B154 1300

SP S 8) 77m	--	200 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 77m	

073806 *** 012 22.01

m > < t CODE >2748< B154 1300

m	77,0
12,0	324,0
14,0	272,0
16,0	234,0
18,0	204,0
20,0	179,0
22,0	159,0
24,0	142,0
26,0	128,0
28,0	116,0
30,0	106,0
32,0	96,0
34,0	88,0
36,0	81,0
38,0	74,0
40,0	69,0
44,0	59,0
48,0	50,0
52,0	43,5
56,0	37,0
60,0	31,5
64,0	26,5
68,0	20,0
72,0	13,5
* n *	24
m/s	12,8

	SP S 8) 77m	--	225 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 77m	--

073806 *** 011 22.01

m > < t CODE >2747< B154 1300

m	77,0
16,0	256,0
18,0	224,0
20,0	197,0
22,0	176,0
24,0	158,0
26,0	142,0
28,0	129,0
30,0	118,0
32,0	108,0
34,0	99,0
36,0	91,0
38,0	84,0
40,0	78,0
44,0	67,0
48,0	58,0
52,0	49,0
56,0	41,0
60,0	33,5
64,0	26,5
68,0	20,0
72,0	13,5
*** n ***	19
m/s	12,8

	SP S 8) 77m	--	250 t	12.0 x 12.0 m	360°

ISO DIN

SP S	--
8) 77m	

073806 *** 037 22.01

m	77,0
11,0	177,0
12,0	177,0
14,0	177,0
16,0	150,0
18,0	126,0
20,0	107,0
22,0	92,0
24,0	80,0
26,0	70,0
28,0	61,0
30,0	54,0
32,0	47,0
34,0	41,5
36,0	36,5
38,0	32,0
40,0	28,1
44,0	21,3
48,0	15,8
52,0	11,2
56,0	7,4
60,0	4,2
*** n ***	12
m/s	12,8

m > < t

CODE >0264<

B154 1300

SP S	--	75 t	16.0 x 16.0 m	360°
8) 77m				

ISO DIN

SP S	--
8) 77m	

073806 *** 036 22.01

m > < t CODE >0263< B154 1300

m	77,0
11,0	248,0
12,0	248,0
14,0	213,0
16,0	179,0
18,0	152,0
20,0	130,0
22,0	113,0
24,0	99,0
26,0	87,0
28,0	77,0
30,0	69,0
32,0	61,0
34,0	55,0
36,0	49,0
38,0	44,0
40,0	39,5
44,0	31,5
48,0	25,1
52,0	19,8
56,0	15,4
60,0	11,7
64,0	8,6
68,0	5,6
72,0	3,2
*** n ***	18
m/s	12,8

	SP S 8) 77m	--	100 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 77m	

073806 *** 035 22.01

m > < t CODE >0262< B154 1300

m	77,0
11,0	292,0
12,0	268,0
14,0	229,0
16,0	199,0
18,0	173,0
20,0	151,0
22,0	134,0
24,0	118,0
26,0	105,0
28,0	93,0
30,0	84,0
32,0	75,0
34,0	68,0
36,0	61,0
38,0	56,0
40,0	50,0
44,0	41,5
48,0	34,5
52,0	28,4
56,0	23,4
60,0	18,9
64,0	14,9
68,0	11,5
72,0	8,7
*** n ***	22
m/s	12,8

	SP S 8) 77m	--	125 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 77m	

073806 *** 034 22.01

m > < t CODE >0261< B154 1300

m	77,0
11,0	311,0
12,0	286,0
14,0	245,0
16,0	213,0
18,0	185,0
20,0	163,0
22,0	144,0
24,0	129,0
26,0	116,0
28,0	105,0
30,0	95,0
32,0	86,0
34,0	79,0
36,0	72,0
38,0	66,0
40,0	61,0
44,0	51,0
48,0	43,5
52,0	37,0
56,0	31,0
60,0	25,6
64,0	21,2
68,0	17,4
72,0	13,5
*** n ***	23
m/s	12,8

	SP S 8) 77m	--	150 t	16.0 x 16.0 m	360°	

ISO DIN

SP S 8) 77m	--

073806 *** 033 22.01

m	77,0
11,0	330,0
12,0	304,0
14,0	261,0
16,0	227,0
18,0	198,0
20,0	174,0
22,0	155,0
24,0	138,0
26,0	124,0
28,0	113,0
30,0	102,0
32,0	93,0
34,0	85,0
36,0	78,0
38,0	72,0
40,0	66,0
44,0	57,0
48,0	48,5
52,0	41,5
56,0	36,0
60,0	31,0
64,0	26,5
68,0	20,0
72,0	13,5
*** n ***	25
m/s	12,8

m > < t

CODE >0260<

B154 1300

	SP S 8) 77m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 77m	

073806 *** 032 22.01

m > < t CODE >0259< B154 1300

m	77,0
11,0	347,0
12,0	322,0
14,0	276,0
16,0	241,0
18,0	210,0
20,0	185,0
22,0	164,0
24,0	147,0
26,0	132,0
28,0	120,0
30,0	109,0
32,0	100,0
34,0	92,0
36,0	84,0
38,0	78,0
40,0	72,0
44,0	62,0
48,0	53,0
52,0	46,0
56,0	40,0
60,0	33,5
64,0	26,5
68,0	20,0
72,0	13,5
* n *	26
m/s	12,8

SP S 8) 77m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 77m	

073806 *** 031 22.01

m > < t CODE >0258< B154 1300

m	77,0
11,0	347,0
12,0	340,0
14,0	292,0
16,0	255,0
18,0	221,0
20,0	195,0
22,0	173,0
24,0	155,0
26,0	140,0
28,0	127,0
30,0	116,0
32,0	106,0
34,0	98,0
36,0	90,0
38,0	83,0
40,0	77,0
44,0	67,0
48,0	58,0
52,0	49,0
56,0	41,0
60,0	33,5
64,0	26,5
68,0	20,0
72,0	13,5
*** n ***	26
m/s	12,8

SP S 8) 77m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 77m	

073806 *** 030 22.01

m > < t CODE >0257< B154 1300

m	77,0
11,0	347,0
12,0	343,0
14,0	308,0
16,0	268,0
18,0	233,0
20,0	205,0
22,0	182,0
24,0	163,0
26,0	148,0
28,0	134,0
30,0	122,0
32,0	112,0
34,0	103,0
36,0	96,0
38,0	88,0
40,0	82,0
44,0	68,0
48,0	58,0
52,0	49,0
56,0	41,0
60,0	33,5
64,0	26,5
68,0	20,0
72,0	13,5
*** n ***	26
m/s	12,8

SP S 8) 77m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 84m	

073806 *** 013 22.01

m > < t

CODE >2753< B154 1400

m	84,0
11,0	295,0
12,0	279,0
14,0	235,0
16,0	202,0
18,0	176,0
20,0	155,0
22,0	137,0
24,0	122,0
26,0	110,0
28,0	99,0
30,0	89,0
32,0	81,0
34,0	74,0
36,0	67,0
38,0	61,0
40,0	56,0
44,0	47,0
48,0	39,5
52,0	33,5
56,0	27,9
60,0	23,3
64,0	19,3
68,0	15,5
72,0	12,3
76,0	9,5
*** n ***	22
m/s	12,8

	SP S 8) 84m	--	200 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 84m	

073806 *** 012 22.01

m > < t

CODE >2752< B154 1400

m	84,0
11,0	295,0
12,0	291,0
14,0	260,0
16,0	224,0
18,0	195,0
20,0	172,0
22,0	153,0
24,0	137,0
26,0	123,0
28,0	112,0
30,0	101,0
32,0	92,0
34,0	85,0
36,0	77,0
38,0	71,0
40,0	65,0
44,0	56,0
48,0	47,5
52,0	40,5
56,0	34,5
60,0	29,5
64,0	24,7
68,0	20,6
72,0	15,8
76,0	10,6
*** n ***	22
m/s	12,8

SP S 8) 84m	--	225 t	12.0 x 12.0 m	360°	

ISO DIN

SP S	--
8) 84m	

073806 *** 011 22.01

m > < t

CODE >2751< B154 1400

m	84,0
16,0	246,0
18,0	215,0
20,0	190,0
22,0	169,0
24,0	152,0
26,0	137,0
28,0	125,0
30,0	114,0
32,0	104,0
34,0	95,0
36,0	88,0
38,0	81,0
40,0	75,0
44,0	64,0
48,0	55,0
52,0	47,0
56,0	40,0
60,0	33,5
64,0	27,1
68,0	21,3
72,0	15,8
76,0	10,6
*** n ***	18
m/s	12,8

SP S 8) 84m	--	250 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 84m	--

073806 *** 034 22.01

m > < t CODE >0269< B154 1400

m	84,0
11,0	214,0
12,0	214,0
14,0	214,0
16,0	205,0
18,0	181,0
20,0	159,0
22,0	141,0
24,0	126,0
26,0	113,0
28,0	102,0
30,0	92,0
32,0	84,0
34,0	76,0
36,0	69,0
38,0	63,0
40,0	58,0
44,0	49,0
48,0	41,0
52,0	34,0
56,0	28,5
60,0	23,7
64,0	19,4
68,0	15,4
72,0	12,1
76,0	9,2
*** n ***	15
m/s	12,8

SP S 8) 84m	--	150 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 84m	

073806 *** 033 22.01

m > < t CODE >0268< B154 1400

m	84,0
11,0	272,0
12,0	272,0
14,0	251,0
16,0	219,0
18,0	193,0
20,0	171,0
22,0	152,0
24,0	135,0
26,0	122,0
28,0	110,0
30,0	100,0
32,0	91,0
34,0	83,0
36,0	76,0
38,0	70,0
40,0	64,0
44,0	54,0
48,0	46,0
52,0	39,0
56,0	33,5
60,0	28,4
64,0	24,1
68,0	20,3
72,0	15,8
76,0	10,6
*** n ***	20
m/s	12,8

SP S 8) 84m	--	175 t	16.0 x 16.0 m	360°	

ISO DIN

SP S	--
8) 84m	

073806 *** 032 22.01

m > < t CODE >0267< B154 1400

m	84,0
11,0	295,0
12,0	291,0
14,0	266,0
16,0	232,0
18,0	205,0
20,0	182,0
22,0	162,0
24,0	145,0
26,0	131,0
28,0	118,0
30,0	107,0
32,0	98,0
34,0	90,0
36,0	82,0
38,0	76,0
40,0	70,0
44,0	59,0
48,0	51,0
52,0	43,5
56,0	37,5
60,0	32,0
64,0	27,1
68,0	21,3
72,0	15,8
76,0	10,6
*** n ***	22
m/s	12,8

SP S 8) 84m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 84m	

073806 *** 031 22.01

m > < t

CODE >0266< B154 1400

m	84,0
11,0	295,0
12,0	291,0
14,0	282,0
16,0	246,0
18,0	218,0
20,0	193,0
22,0	172,0
24,0	154,0
26,0	139,0
28,0	126,0
30,0	114,0
32,0	105,0
34,0	96,0
36,0	89,0
38,0	82,0
40,0	75,0
44,0	65,0
48,0	56,0
52,0	47,0
56,0	40,0
60,0	33,5
64,0	27,1
68,0	21,3
72,0	15,8
76,0	10,6
*** n ***	22
m/s	12,8

SP S 8) 84m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 84m	--

073806 *** 030 22.01

m	84,0
11,0	295,0
12,0	291,0
14,0	284,0
16,0	260,0
18,0	230,0
20,0	204,0
22,0	181,0
24,0	162,0
26,0	146,0
28,0	133,0
30,0	121,0
32,0	111,0
34,0	102,0
36,0	94,0
38,0	87,0
40,0	80,0
44,0	67,0
48,0	56,0
52,0	47,0
56,0	40,0
60,0	33,5
64,0	27,1
68,0	21,3
72,0	15,8
76,0	10,6
*** n ***	22
m/s	12,8

m > < t

CODE >0265<

B154 1400

	SP S 8) 84m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 91m	--

073806 *** 011 22.01

m > < t CODE >2754< B154 1500

m	91,0
12,0	250,0
14,0	244,0
16,0	236,0
18,0	207,0
20,0	183,0
22,0	163,0
24,0	147,0
26,0	132,0
28,0	120,0
30,0	109,0
32,0	100,0
34,0	91,0
36,0	84,0
38,0	77,0
40,0	71,0
44,0	61,0
48,0	52,0
52,0	44,5
56,0	37,5
60,0	31,5
64,0	26,3
68,0	21,2
72,0	16,4
76,0	11,9
80,0	7,6
* n *	18
m/s	12,8

SP S 8) 91m	--	250 t	12.0 x 12.0 m	360°

ISO DIN

SP S 8) 91m	--

073806 *** 033 22.01

m > < t CODE >0273< B154 1500

m	91,0
12,0	250,0
14,0	241,0
16,0	210,0
18,0	186,0
20,0	165,0
22,0	148,0
24,0	132,0
26,0	119,0
28,0	107,0
30,0	97,0
32,0	88,0
34,0	80,0
36,0	73,0
38,0	67,0
40,0	61,0
44,0	52,0
48,0	43,5
52,0	36,5
56,0	31,0
60,0	25,8
64,0	21,4
68,0	17,6
72,0	14,3
76,0	11,4
80,0	7,6
*** n ***	18
m/s	12,8

SP S 8) 91m	--	175 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 91m	

073806 *** 032 22.01

m > < t CODE >0272< B154 1500

m	91,0
12,0	250,0
14,0	244,0
16,0	224,0
18,0	198,0
20,0	176,0
22,0	158,0
24,0	142,0
26,0	127,0
28,0	115,0
30,0	104,0
32,0	95,0
34,0	87,0
36,0	79,0
38,0	73,0
40,0	67,0
44,0	57,0
48,0	48,0
52,0	41,0
56,0	35,0
60,0	29,6
64,0	25,0
68,0	21,0
72,0	16,4
76,0	11,9
80,0	7,6
* n *	18
m/s	12,8

SP S 8) 91m	--	200 t	16.0 x 16.0 m	360°

ISO DIN

SP S 8) 91m	--

073806 *** 031 22.01

m	91,0
12,0	250,0
14,0	244,0
16,0	237,0
18,0	210,0
20,0	187,0
22,0	168,0
24,0	151,0
26,0	136,0
28,0	123,0
30,0	112,0
32,0	102,0
34,0	94,0
36,0	86,0
38,0	79,0
40,0	73,0
44,0	62,0
48,0	53,0
52,0	45,0
56,0	37,5
60,0	31,5
64,0	26,3
68,0	21,2
72,0	16,4
76,0	11,9
80,0	7,6
* n *	18
m/s	12,8

m > < t

CODE >0271<

B154 1500

SP S 8) 91m	--	225 t	16.0 x 16.0 m	360°

ISO DIN

SP S	--
8) 91m	

073806 *** 030 22.01

m > < t CODE >0270< B154 1500

m	91,0
12,0	250,0
14,0	244,0
16,0	237,0
18,0	221,0
20,0	198,0
22,0	178,0
24,0	160,0
26,0	145,0
28,0	131,0
30,0	120,0
32,0	109,0
34,0	100,0
36,0	90,0
38,0	83,0
40,0	77,0
44,0	65,0
48,0	55,0
52,0	45,0
56,0	37,5
60,0	31,5
64,0	26,3
68,0	21,2
72,0	16,4
76,0	11,9
80,0	7,6
* n *	18
m/s	12,8

SP S 8) 91m	--	250 t	16.0 x 16.0 m	360°

ISO DIN

SD	--
9) 35m	

073806 *** 154 22.00

m	35,0
7,0	565,0
8,0	497,0
9,0	443,0
10,0	399,0
11,0	362,0
12,0	332,0
14,0	280,0
16,0	240,0
18,0	209,0
20,0	182,0
22,0	160,0
24,0	143,0
26,0	129,0
28,0	119,0
30,0	110,0
32,0	101,0
* n *	50
m/s	14,3

m > < t CODE >0276< B154 1600

	SD 9) 35m	--	220 t	12.0 x 12.0 m	360°		

ISO DIN

SD	--
9) 35m	

073806 *** 153 22.00

m > < t CODE >0275< B154 1600

m	35,0
7,0	581,0
8,0	511,0
9,0	455,0
10,0	410,0
11,0	373,0
12,0	341,0
14,0	286,0
16,0	241,0
18,0	209,0
20,0	182,0
22,0	160,0
24,0	143,0
26,0	129,0
28,0	119,0
30,0	110,0
32,0	102,0
* n *	52
m/s	14,3

SD 9) 35m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 42m	

073806 *** 154 22.00

m > < t CODE >0278< B154 1700

m	42,0
8,0	494,0
9,0	440,0
10,0	396,0
11,0	360,0
12,0	329,0
14,0	277,0
16,0	238,0
18,0	206,0
20,0	180,0
22,0	157,0
24,0	140,0
26,0	127,0
28,0	115,0
30,0	103,0
32,0	96,0
34,0	89,0
36,0	83,0
38,0	76,0
40,0	71,0
*** n ***	41
m/s	14,3

	SD 9) 42m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 42m	

073806 *** 153 22.00

m > < t CODE >0277< B154 1700

m	42,0
8,0	508,0
9,0	453,0
10,0	407,0
11,0	370,0
12,0	339,0
14,0	283,0
16,0	238,0
18,0	206,0
20,0	180,0
22,0	157,0
24,0	140,0
26,0	127,0
28,0	115,0
30,0	103,0
32,0	96,0
34,0	89,0
36,0	84,0
38,0	78,0
40,0	73,0
*** n ***	43
m/s	14,3

SD 9) 42m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 49m	

073806 *** 154 22.00

m > < t CODE >0280< B154 1800

m	49,0
8,0	491,0
9,0	437,0
10,0	393,0
11,0	357,0
12,0	326,0
14,0	275,0
16,0	235,0
18,0	202,0
20,0	177,0
22,0	155,0
24,0	137,0
26,0	124,0
28,0	113,0
30,0	102,0
32,0	93,0
34,0	83,0
36,0	77,0
38,0	72,0
40,0	68,0
44,0	58,0
*** n ***	41
m/s	14,3

SD 9) 49m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 49m	

073806 *** 153 22.00

m	49,0
8,0	505,0
9,0	450,0
10,0	404,0
11,0	367,0
12,0	336,0
14,0	281,0
16,0	235,0
18,0	202,0
20,0	177,0
22,0	155,0
24,0	137,0
26,0	124,0
28,0	113,0
30,0	102,0
32,0	93,0
34,0	83,0
36,0	77,0
38,0	72,0
40,0	68,0
44,0	60,0
*** n ***	43
m/s	14,3

m > < t

CODE >0279<

B154 1800

	SD 9) 49m	--	
245 t	12.0 x 12.0 m	360°	

ISO DIN

SD	--
9) 56m	

073806 *** 154 22.00

m > < t CODE >0282< B154 1900

m	56,0
9,0	435,0
10,0	391,0
11,0	355,0
12,0	324,0
14,0	273,0
16,0	233,0
18,0	199,0
20,0	174,0
22,0	152,0
24,0	134,0
26,0	122,0
28,0	111,0
30,0	101,0
32,0	92,0
34,0	84,0
36,0	76,0
38,0	68,0
40,0	61,0
44,0	54,0
48,0	48,0
52,0	42,5
*** n ***	35
m/s	14,3

SD 9) 56m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 56m	

073806 *** 153 22.00

m > < t CODE >0281< B154 1900

m	56,0
9,0	448,0
10,0	403,0
11,0	365,0
12,0	334,0
14,0	278,0
16,0	233,0
18,0	199,0
20,0	174,0
22,0	152,0
24,0	134,0
26,0	122,0
28,0	111,0
30,0	101,0
32,0	92,0
34,0	84,0
36,0	76,0
38,0	68,0
40,0	61,0
44,0	54,0
48,0	48,0
52,0	42,5
*** n ***	36
m/s	14,3

SD 9) 56m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 63m	

073806 *** 154 22.00

m > < t CODE >0284< B154 1A00

m	63,0
10,0	389,0
11,0	353,0
12,0	319,0
14,0	265,0
16,0	225,0
18,0	194,0
20,0	169,0
22,0	149,0
24,0	131,0
26,0	116,0
28,0	106,0
30,0	97,0
32,0	89,0
34,0	81,0
36,0	74,0
38,0	67,0
40,0	60,0
44,0	48,0
48,0	42,5
52,0	37,5
56,0	32,5
*** n ***	30
m/s	14,3

SD 9) 63m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 63m	

073806 *** 153 22.00

m > < t CODE >0283< B154 1A00

m	63,0
10,0	401,0
11,0	363,0
12,0	332,0
14,0	276,0
16,0	229,0
18,0	195,0
20,0	169,0
22,0	149,0
24,0	131,0
26,0	116,0
28,0	106,0
30,0	97,0
32,0	89,0
34,0	81,0
36,0	74,0
38,0	67,0
40,0	60,0
44,0	48,0
48,0	42,5
52,0	37,5
56,0	32,5
*** n ***	32
m/s	14,3

SD 9) 63m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 70m	

073806 *** 154 22.00

m > < t CODE >0286< B154 1B00

m	70,0
10,0	371,0
11,0	332,0
12,0	301,0
14,0	251,0
16,0	214,0
18,0	185,0
20,0	162,0
22,0	144,0
24,0	128,0
26,0	115,0
28,0	104,0
30,0	94,0
32,0	85,0
34,0	78,0
36,0	71,0
38,0	65,0
40,0	60,0
44,0	49,5
48,0	38,5
52,0	33,0
56,0	28,5
60,0	24,5
64,0	20,8
*** n ***	29
m/s	12,8

SD 9) 70m	--	220 t	12.0 x 12.0 m	360°	

ISO DIN

SD	--
9) 70m	

073806 *** 153 22.00

m > < t CODE >0285< B154 1B00

m	70,0
10,0	399,0
11,0	361,0
12,0	327,0
14,0	273,0
16,0	227,0
18,0	194,0
20,0	167,0
22,0	146,0
24,0	128,0
26,0	116,0
28,0	106,0
30,0	98,0
32,0	89,0
34,0	82,0
36,0	75,0
38,0	68,0
40,0	62,0
44,0	49,5
48,0	38,5
52,0	33,0
56,0	28,5
60,0	24,5
64,0	20,8
* n *	31
m/s	12,8

SD 9) 70m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 77m	

073806 *** 154 22.00

m > < t CODE >0288< B154 1C00

m	77,0
11,0	313,0
12,0	284,0
14,0	239,0
16,0	204,0
18,0	177,0
20,0	155,0
22,0	137,0
24,0	122,0
26,0	110,0
28,0	99,0
30,0	89,0
32,0	81,0
34,0	74,0
36,0	66,0
38,0	59,0
40,0	53,0
44,0	44,5
48,0	36,5
52,0	29,2
56,0	24,5
60,0	21,0
64,0	17,7
68,0	14,6
72,0	11,7
* n *	23
m/s	12,8

SD 9) 77m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 77m	

073806 *** 153 22.00

m > < t CODE >0287< B154 1C00

m	77,0
11,0	340,0
12,0	309,0
14,0	260,0
16,0	223,0
18,0	192,0
20,0	167,0
22,0	144,0
24,0	127,0
26,0	112,0
28,0	100,0
30,0	90,0
32,0	82,0
34,0	74,0
36,0	66,0
38,0	59,0
40,0	53,0
44,0	44,5
48,0	36,5
52,0	29,2
56,0	24,5
60,0	21,0
64,0	17,7
68,0	14,6
72,0	11,7
*** n ***	26
m/s	12,8

SD 9) 77m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 84m	

073806 *** 154 22.00

m > < t CODE >0290< B154 1D00

m	84,0
11,0	295,0
12,0	269,0
14,0	226,0
16,0	194,0
18,0	168,0
20,0	148,0
22,0	131,0
24,0	116,0
26,0	104,0
28,0	94,0
30,0	85,0
32,0	77,0
34,0	69,0
36,0	63,0
38,0	57,0
40,0	52,0
44,0	43,0
48,0	35,0
52,0	27,7
56,0	20,8
60,0	16,5
64,0	13,9
68,0	11,4
72,0	9,1
76,0	6,9
*** n ***	22
m/s	12,8

SD 9) 84m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 84m	

073806 *** 153 22.00

m > < t CODE >0289< B154 1D00

m	84,0
11,0	321,0
12,0	292,0
14,0	247,0
16,0	212,0
18,0	184,0
20,0	162,0
22,0	142,0
24,0	125,0
26,0	110,0
28,0	98,0
30,0	88,0
32,0	79,0
34,0	71,0
36,0	63,0
38,0	57,0
40,0	52,0
44,0	43,0
48,0	35,0
52,0	27,7
56,0	20,8
60,0	16,5
64,0	13,9
68,0	11,4
72,0	9,1
76,0	6,9
*** n ***	24
m/s	12,8

SD 9) 84m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 91m	

073806 *** 154 22.00

m > < t CODE >0292< B154 1E00

m	91,0
12,0	255,0
14,0	216,0
16,0	185,0
18,0	161,0
20,0	142,0
22,0	125,0
24,0	111,0
26,0	100,0
28,0	90,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,0
44,0	40,0
48,0	32,5
52,0	25,9
56,0	19,7
60,0	13,8
64,0	9,8
68,0	7,8
72,0	6,0
76,0	4,2
* n *	18
m/s	12,8

SD 9) 91m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 91m	

073806 *** 153 22.00

m > < t CODE >0291< B154 1E00

m	91,0
12,0	278,0
14,0	236,0
16,0	203,0
18,0	177,0
20,0	156,0
22,0	138,0
24,0	123,0
26,0	108,0
28,0	95,0
30,0	85,0
32,0	76,0
34,0	69,0
36,0	61,0
38,0	54,0
40,0	48,0
44,0	40,0
48,0	32,5
52,0	25,9
56,0	19,7
60,0	13,8
64,0	9,8
68,0	7,8
72,0	6,0
76,0	4,2
* n *	20
m/s	12,8

SD 9) 91m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 98m	

073806 *** 154 22.00

m > < t CODE >0294< B154 1F00

m	98,0
12,0	243,0
14,0	206,0
16,0	178,0
18,0	155,0
20,0	136,0
22,0	120,0
24,0	107,0
26,0	96,0
28,0	86,0
30,0	77,0
32,0	70,0
34,0	63,0
36,0	57,0
38,0	52,0
40,0	46,5
44,0	38,0
48,0	31,0
52,0	25,1
56,0	19,5
60,0	14,2
64,0	9,3
68,0	5,6
72,0	4,6
* n *	18
m/s	12,8

SD 9) 98m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 98m	

073806 *** 153 22.00

m > < t CODE >0293< B154 1F00

m	98,0
12,0	258,0
14,0	225,0
16,0	194,0
18,0	170,0
20,0	150,0
22,0	133,0
24,0	119,0
26,0	107,0
28,0	95,0
30,0	84,0
32,0	75,0
34,0	67,0
36,0	60,0
38,0	54,0
40,0	48,0
44,0	38,0
48,0	31,0
52,0	25,1
56,0	19,5
60,0	14,2
64,0	9,3
68,0	5,6
72,0	4,6
76,0	3,6
* n *	19
m/s	12,8

SD 9) 98m	--	245 t	12.0 x 12.0 m	360°	

ISO DIN

SD	--
9) 105m	

073806 *** 154 22.00

m > < t CODE >0296< B154 2000

m	105,0
14,0	198,0
16,0	171,0
18,0	149,0
20,0	132,0
22,0	117,0
24,0	104,0
26,0	93,0
28,0	83,0
30,0	75,0
32,0	68,0
34,0	61,0
36,0	55,0
38,0	50,0
40,0	45,0
44,0	36,0
48,0	26,8
52,0	21,2
56,0	16,5
60,0	12,2
64,0	8,2
68,0	4,4
*** n ***	14
m/s	11,1

SD	--	220	12.0 x 12.0	360°
9) 105m		t	m	

ISO DIN

SD	--
9) 105m	

073806 *** 153 22.00

m > < t CODE >0295< B154 2000

m	105,0
14,0	217,0
16,0	188,0
18,0	164,0
20,0	145,0
22,0	129,0
24,0	115,0
26,0	104,0
28,0	92,0
30,0	82,0
32,0	73,0
34,0	65,0
36,0	57,0
38,0	51,0
40,0	46,0
44,0	36,0
48,0	26,8
52,0	21,2
56,0	16,5
60,0	12,2
64,0	8,2
68,0	4,4
*** n ***	15
m/s	11,1

SD 9) 105m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 112m	

073806 *** 154 22.00

m > < t CODE >0298< B154 2100

m	112,0
14,0	190,0
16,0	165,0
18,0	144,0
20,0	127,0
22,0	113,0
24,0	101,0
26,0	90,0
28,0	81,0
30,0	73,0
32,0	65,0
34,0	59,0
36,0	53,0
38,0	48,0
40,0	43,5
44,0	34,5
48,0	25,6
52,0	18,1
56,0	14,6
60,0	11,3
64,0	8,3
68,0	5,4
*** n ***	13
m/s	11,1

SD 9) 112m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 112m	

073806 *** 153 22.00

m > < t CODE >0297< B154 2100

m	112,0
14,0	192,0
16,0	181,0
18,0	159,0
20,0	140,0
22,0	125,0
24,0	112,0
26,0	100,0
28,0	91,0
30,0	81,0
32,0	72,0
34,0	64,0
36,0	56,0
38,0	50,0
40,0	44,0
44,0	34,5
48,0	25,6
52,0	18,1
56,0	14,6
60,0	11,3
64,0	8,3
68,0	5,4
*** n ***	14
m/s	11,1

SD 9) 112m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 119m	

073806 *** 154 22.00

m	119,0
14,0	167,0
16,0	158,0
18,0	139,0
20,0	122,0
22,0	109,0
24,0	97,0
26,0	87,0
28,0	78,0
30,0	70,0
32,0	63,0
34,0	56,0
36,0	51,0
38,0	46,0
40,0	41,0
44,0	32,0
48,0	23,2
52,0	16,5
56,0	13,4
60,0	10,5
64,0	7,4
68,0	4,0
*** n ***	12
m/s	11,1

m > < t

CODE >0300<

B154 2200

	SD 9) 119m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 119m	

073806 *** 153 22.00

m > < t CODE >0299< B154 2200

m	119,0
14,0	167,0
16,0	167,0
18,0	153,0
20,0	135,0
22,0	120,0
24,0	108,0
26,0	97,0
28,0	87,0
30,0	79,0
32,0	70,0
34,0	62,0
36,0	55,0
38,0	48,5
40,0	42,5
44,0	32,0
48,0	23,2
52,0	16,5
56,0	13,4
60,0	10,5
64,0	7,9
68,0	5,3
72,0	3,0
*** n ***	12
m/s	11,1

SD 9) 119m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 126m	

073806 *** 154 22.00

m > < t CODE >0302< B154 2300

m	126,0
16,0	144,0
18,0	133,0
20,0	117,0
22,0	104,0
24,0	93,0
26,0	83,0
28,0	74,0
30,0	66,0
32,0	60,0
34,0	54,0
36,0	48,0
38,0	43,0
40,0	38,5
44,0	31,0
48,0	23,0
52,0	16,3
56,0	10,1
60,0	7,1
64,0	5,5
*** n ***	10
m/s	11,1

SD 9) 126m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 126m	

073806 *** 153 22.00

m	m > < t	CODE >0301<	B154 2300
	126,0		
16,0	144,0		
18,0	143,0		
20,0	130,0		
22,0	116,0		
24,0	103,0		
26,0	93,0		
28,0	84,0		
30,0	75,0		
32,0	68,0		
34,0	61,0		
36,0	54,0		
38,0	47,5		
40,0	41,5		
44,0	31,0		
48,0	23,0		
52,0	16,3		
56,0	10,1		
60,0	7,1		
64,0	5,6		
68,0	4,2		
*** n ***	10		
m/s	11,1		

	SD 9) 126m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 133m	

073806 *** 154 22.00

m > < t CODE >0304< B154 2400

m	133,0
16,0	124,0
18,0	123,0
20,0	113,0
22,0	100,0
24,0	89,0
26,0	80,0
28,0	71,0
30,0	64,0
32,0	57,0
34,0	51,0
36,0	46,0
38,0	41,0
40,0	36,5
44,0	28,9
48,0	21,2
52,0	14,8
56,0	8,8
60,0	5,1
64,0	3,9
*** n ***	9
m/s	9,0

SD 9) 133m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 133m	

073806 *** 153 22.00

m > < t CODE >0303< B154 2400

m	133,0
16,0	124,0
18,0	123,0
20,0	123,0
22,0	111,0
24,0	100,0
26,0	89,0
28,0	81,0
30,0	73,0
32,0	65,0
34,0	59,0
36,0	53,0
38,0	46,0
40,0	40,0
44,0	29,2
48,0	21,2
52,0	14,8
56,0	8,8
60,0	5,1
64,0	3,9
*** n ***	9
m/s	9,0

SD 9) 133m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 140m	

073806 *** 154 22.00

m > < t CODE >0306< B154 2500

m	140,0
16,0	105,0
18,0	105,0
20,0	104,0
22,0	97,0
24,0	86,0
26,0	77,0
28,0	69,0
30,0	62,0
32,0	55,0
34,0	49,5
36,0	44,5
38,0	39,5
40,0	35,5
44,0	26,4
48,0	17,6
52,0	10,3
56,0	8,0
60,0	6,0
*** n ***	7
m/s	9,0

SD 9) 140m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

SD	--
9) 140m	

073806 *** 153 22.00

m > < t CODE >0305< B154 2500

m	140,0
16,0	105,0
18,0	105,0
20,0	104,0
22,0	104,0
24,0	97,0
26,0	87,0
28,0	78,0
30,0	70,0
32,0	64,0
34,0	57,0
36,0	50,0
38,0	43,5
40,0	37,5
44,0	26,4
48,0	17,6
52,0	10,3
56,0	8,0
60,0	6,0
64,0	4,2
*** n ***	7
m/s	9,0

SD 9) 140m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

SDB	--
35m	

073806 22.00

m > < t

CODE >0310< B154 2600

m	35,0	35,0	35,0	35,0	35,0									
7,0	565,0	600,0	600,0	600,0	600,0									
8,0	497,0	600,0	600,0	600,0	600,0									
9,0	443,0	600,0	600,0	600,0	600,0									
10,0	399,0	600,0	600,0	600,0	600,0									
11,0	362,0	594,0	600,0	600,0	600,0									
12,0	332,0	568,0	586,0	600,0	600,0									
14,0	280,0	523,0	541,0	564,0	576,0									
16,0	240,0	477,0	503,0	526,0	541,0									
18,0	209,0	413,0	462,0	493,0	512,0									
20,0	182,0	364,0	405,0	457,0	458,0									
22,0	160,0	325,0	351,0	399,0	402,0									
24,0	143,0	288,0	308,0	350,0	357,0									
26,0	129,0	254,0	271,0	307,0	315,0									
28,0	119,0	230,0	246,0	277,0	281,0									
30,0	110,0	209,0	224,0	249,0	249,0									
32,0	101,0	189,0	204,0	220,0	220,0									
*** n ***	50	55	55	55	55									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	14,3	14,3	14,3	14,3	14,3									
***	154D	348	347	346	345									

SDB	--	220	12.0 x	yy
35m		t	12.0 m	

ISO DIN

SDB	--
42m	

073806 22.00

m > < t CODE >0311< B154 2700

m	42,0	42,0	42,0	42,0	42,0									
8,0	494,0	600,0	600,0	600,0	600,0									
9,0	440,0	600,0	600,0	600,0	600,0									
10,0	396,0	600,0	600,0	600,0	600,0									
11,0	360,0	585,0	600,0	600,0	600,0									
12,0	329,0	560,0	577,0	597,0	600,0									
14,0	277,0	515,0	533,0	554,0	567,0									
16,0	238,0	476,0	495,0	518,0	531,0									
18,0	206,0	418,0	462,0	484,0	496,0									
20,0	180,0	368,0	412,0	454,0	466,0									
22,0	157,0	328,0	367,0	426,0	434,0									
24,0	140,0	295,0	331,0	385,0	391,0									
26,0	127,0	268,0	301,0	350,0	354,0									
28,0	115,0	245,0	275,0	318,0	319,0									
30,0	103,0	226,0	246,0	283,0	286,0									
32,0	96,0	209,0	225,0	257,0	259,0									
34,0	89,0	192,0	206,0	234,0	235,0									
36,0	83,0	177,0	189,0	212,0	212,0									
38,0	76,0	162,0	173,0	191,0	191,0									
40,0	71,0	147,0	157,0	171,0	171,0									
*** n ***	41	55	55	55	55									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	14,3	14,3	14,3	14,3	14,3									
***	154D	348	347	346	345									

SDB	--
42m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
10) 49m	

073806 22.00

m > < t

CODE >0312< B154 2800

m	49,0	49,0	49,0	49,0	49,0
8,0	491,0	600,0	600,0	600,0	600,0
9,0	437,0	600,0	600,0	600,0	600,0
10,0	393,0	600,0	600,0	600,0	600,0
11,0	357,0	575,0	590,0	600,0	600,0
12,0	326,0	551,0	567,0	586,0	597,0
14,0	275,0	506,0	523,0	543,0	554,0
16,0	235,0	468,0	485,0	505,0	518,0
18,0	202,0	423,0	452,0	471,0	483,0
20,0	177,0	372,0	416,0	439,0	450,0
22,0	155,0	331,0	370,0	411,0	420,0
24,0	137,0	298,0	333,0	386,0	394,0
26,0	124,0	270,0	302,0	352,0	365,0
28,0	113,0	246,0	276,0	322,0	335,0
30,0	102,0	226,0	254,0	297,0	307,0
32,0	93,0	209,0	235,0	275,0	280,0
34,0	83,0	194,0	218,0	255,0	255,0
36,0	77,0	180,0	203,0	234,0	234,0
38,0	72,0	169,0	190,0	216,0	216,0
40,0	68,0	158,0	177,0	199,0	199,0
44,0	58,0	138,0	152,0	167,0	167,0
*** n ***	41	55	55	55	55
yy	0,0	13,0	15,0	18,0	20,0
m/s	14,3	14,3	14,3	14,3	14,3
***	154D	348	347	346	345

SDB	--
10) 49m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
10) 56m	

073806 22.00

m > < t

CODE >0313<

B154 2900

m	56,0	56,0	56,0	56,0	56,0									
9,0	435,0	600,0	600,0	600,0	600,0									
10,0	391,0	590,0	600,0	600,0	600,0									
11,0	355,0	565,0	600,0	596,0	600,0									
12,0	324,0	541,0	555,0	572,0	581,0									
14,0	273,0	497,0	513,0	528,0	537,0									
16,0	233,0	460,0	476,0	490,0	499,0									
18,0	199,0	425,0	442,0	455,0	464,0									
20,0	174,0	376,0	411,0	423,0	432,0									
22,0	152,0	325,0	374,0	395,0	403,0									
24,0	134,0	269,0	336,0	369,0	377,0									
26,0	122,0	254,0	305,0	349,0	357,0									
28,0	111,0	244,0	278,0	324,0	336,0									
30,0	101,0	228,0	255,0	298,0	311,0									
32,0	92,0	210,0	236,0	276,0	288,0									
34,0	84,0	194,0	219,0	256,0	266,0									
36,0	76,0	181,0	204,0	239,0	246,0									
38,0	68,0	169,0	190,0	223,0	226,0									
40,0	61,0	158,0	178,0	208,0	208,0									
44,0	54,0	140,0	158,0	181,0	181,0									
48,0	48,0	125,0	142,0	156,0	156,0									
52,0	42,5	108,0	122,0	134,0	134,0									
*** n ***	35	55	55	55	55									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	14,3	14,3	14,3	14,3	14,3									
***	154D	348	347	346	345									

	SDB 10) 56m	--	220 t	12.0 x 12.0 m	yy

ISO DIN

SDB	--
10) 63m	

073806 22.00

m > < t

CODE >0314< B154 2A00

m	63,0	63,0	63,0	63,0	63,0									
10,0	389,0	559,0	559,0	559,0	559,0									
11,0	353,0	549,0	558,0	558,0	558,0									
12,0	319,0	527,0	539,0	549,0	555,0									
14,0	265,0	483,0	494,0	505,0	512,0									
16,0	225,0	444,0	455,0	466,0	473,0									
18,0	194,0	410,0	421,0	432,0	439,0									
20,0	169,0	380,0	391,0	402,0	410,0									
22,0	149,0	337,0	365,0	376,0	383,0									
24,0	131,0	302,0	338,0	352,0	359,0									
26,0	116,0	274,0	306,0	332,0	339,0									
28,0	106,0	249,0	279,0	315,0	322,0									
30,0	97,0	228,0	256,0	299,0	302,0									
32,0	89,0	210,0	236,0	276,0	282,0									
34,0	81,0	194,0	219,0	256,0	264,0									
36,0	74,0	180,0	203,0	239,0	246,0									
38,0	67,0	168,0	190,0	223,0	230,0									
40,0	60,0	157,0	178,0	209,0	214,0									
44,0	48,0	138,0	157,0	184,0	185,0									
48,0	42,5	123,0	140,0	163,0	163,0									
52,0	37,5	110,0	126,0	143,0	143,0									
56,0	32,5	98,0	112,0	124,0	125,0									
*** n ***	30	49	49	49	49									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	14,3	14,3	14,3	14,3	14,3									
***	154D	348	347	346	345									

SDB	--
10) 63m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
10) 70m	

073806 22.00

m > < t

CODE >0315< B154 2B00

m	70,0	70,0	70,0	70,0	70,0									
10,0	371,0	474,0	474,0	474,0	474,0									
11,0	332,0	473,0	473,0	473,0	473,0									
12,0	301,0	472,0	472,0	472,0	472,0									
14,0	251,0	454,0	462,0	470,0	470,0									
16,0	214,0	421,0	430,0	439,0	445,0									
18,0	185,0	390,0	399,0	408,0	415,0									
20,0	162,0	363,0	372,0	381,0	388,0									
22,0	144,0	338,0	347,0	357,0	364,0									
24,0	128,0	307,0	325,0	335,0	341,0									
26,0	115,0	277,0	307,0	317,0	324,0									
28,0	104,0	252,0	282,0	301,0	308,0									
30,0	94,0	231,0	259,0	287,0	293,0									
32,0	85,0	212,0	239,0	273,0	277,0									
34,0	78,0	196,0	221,0	258,0	260,0									
36,0	71,0	182,0	205,0	240,0	244,0									
38,0	65,0	169,0	191,0	225,0	230,0									
40,0	60,0	158,0	179,0	210,0	216,0									
44,0	49,5	139,0	158,0	186,0	189,0									
48,0	38,5	123,0	140,0	165,0	165,0									
52,0	33,0	110,0	126,0	146,0	146,0									
56,0	28,5	99,0	114,0	130,0	130,0									
60,0	24,5	90,0	103,0	116,0	116,0									
64,0	20,8	81,0	94,0	102,0	102,0									
*** n ***	29	39	39	39	39									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	12,8	12,8	12,8	12,8	12,8									
***	154D	348	347	346	345									

SDB	--
10) 70m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
10) 77m	

073806 22.00

m > < t CODE >0316< B154 2C00

m	77,0	77,0	77,0	77,0	77,0									
11,0	313,0	404,0	404,0	404,0	404,0									
12,0	284,0	403,0	403,0	403,0	403,0									
14,0	239,0	402,0	402,0	402,0	402,0									
16,0	204,0	393,0	400,0	401,0	401,0									
18,0	177,0	367,0	375,0	382,0	387,0									
20,0	155,0	343,0	350,0	358,0	364,0									
22,0	137,0	321,0	329,0	337,0	342,0									
24,0	122,0	301,0	309,0	317,0	323,0									
26,0	110,0	282,0	290,0	299,0	305,0									
28,0	99,0	256,0	274,0	283,0	288,0									
30,0	89,0	234,0	260,0	268,0	274,0									
32,0	81,0	215,0	242,0	255,0	258,0									
34,0	74,0	199,0	224,0	242,0	242,0									
36,0	66,0	184,0	207,0	227,0	228,0									
38,0	59,0	171,0	193,0	213,0	213,0									
40,0	53,0	160,0	181,0	201,0	201,0									
44,0	44,5	140,0	159,0	181,0	181,0									
48,0	36,5	124,0	141,0	163,0	163,0									
52,0	29,2	110,0	126,0	146,0	146,0									
56,0	24,5	99,0	114,0	131,0	131,0									
60,0	21,0	89,0	103,0	118,0	118,0									
64,0	17,7	81,0	94,0	106,0	106,0									
68,0	14,6	74,0	84,0	94,0	94,0									
72,0	11,7	68,0	74,0	82,0	83,0									
*** n ***	23	32	32	32	32									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	12,8	12,8	12,8	12,8	12,8									
***	154D	348	347	346	345									

	SDB 10) 77m	--	220 t	12.0 x 12.0 m	yy

ISO DIN

SDB	--
84m	

073806 22.00

m > < t

CODE >0317< B154 2D00

m	84,0	84,0	84,0	84,0	84,0
11,0	295,0	346,0	346,0	346,0	346,0
12,0	269,0	346,0	346,0	346,0	346,0
14,0	226,0	345,0	345,0	345,0	345,0
16,0	194,0	344,0	344,0	344,0	344,0
18,0	168,0	343,0	343,0	343,0	343,0
20,0	148,0	327,0	334,0	341,0	341,0
22,0	131,0	308,0	315,0	322,0	327,0
24,0	116,0	289,0	297,0	305,0	310,0
26,0	104,0	273,0	280,0	288,0	294,0
28,0	94,0	255,0	265,0	274,0	279,0
30,0	85,0	233,0	252,0	260,0	262,0
32,0	77,0	214,0	239,0	246,0	246,0
34,0	69,0	198,0	222,0	231,0	231,0
36,0	63,0	183,0	206,0	217,0	217,0
38,0	57,0	170,0	192,0	205,0	205,0
40,0	52,0	158,0	179,0	195,0	195,0
44,0	43,0	138,0	157,0	176,0	176,0
48,0	35,0	122,0	139,0	160,0	160,0
52,0	27,7	108,0	124,0	144,0	144,0
56,0	20,8	97,0	111,0	130,0	130,0
60,0	16,5	87,0	101,0	117,0	117,0
64,0	13,9	78,0	91,0	106,0	106,0
68,0	11,4	71,0	83,0	96,0	96,0
72,0	9,1	65,0	76,0	86,0	86,0
76,0	6,9	59,0	71,0	77,0	77,0
*** n ***	22	26	26	26	26
yy	0,0	13,0	15,0	18,0	20,0
m/s	12,8	12,8	12,8	12,8	12,8
***	154D	348	347	346	345

SDB	--
84m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
91m	

073806 22.00

m > < t

CODE >0318< B154 2E00

m	91,0	91,0	91,0	91,0	91,0									
12,0	255,0	298,0	298,0	298,0	298,0									
14,0	216,0	297,0	297,0	297,0	297,0									
16,0	185,0	297,0	297,0	297,0	297,0									
18,0	161,0	296,0	296,0	296,0	296,0									
20,0	142,0	295,0	295,0	295,0	295,0									
22,0	125,0	292,0	293,0	293,0	293,0									
24,0	111,0	277,0	283,0	284,0	284,0									
26,0	100,0	262,0	269,0	274,0	274,0									
28,0	90,0	248,0	255,0	263,0	264,0									
30,0	81,0	232,0	243,0	248,0	249,0									
32,0	73,0	213,0	231,0	234,0	234,0									
34,0	66,0	196,0	220,0	221,0	221,0									
36,0	60,0	181,0	205,0	208,0	208,0									
38,0	54,0	168,0	190,0	196,0	196,0									
40,0	48,0	157,0	177,0	185,0	185,0									
44,0	40,0	137,0	155,0	168,0	168,0									
48,0	32,5	120,0	137,0	153,0	153,0									
52,0	25,9	106,0	122,0	140,0	140,0									
56,0	19,7	95,0	109,0	127,0	127,0									
60,0	13,8	85,0	98,0	115,0	115,0									
64,0	9,8	76,0	89,0	104,0	104,0									
68,0	7,8	68,0	80,0	95,0	95,0									
72,0	6,0	62,0	73,0	86,0	86,0									
76,0	4,2	56,0	67,0	78,0	78,0									
80,0		51,0	61,0	70,0	70,0									
84,0		48,5	58,0	61,0	63,0									
*** n ***	18	22	22	22	22									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	12,8	12,8	12,8	12,8	12,8									
***	154D	348	347	346	345									

	SDB 91m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

SDB	--
98m	

073806 22.00

m > < t

CODE >0319< B154 2F00

m	98,0	98,0	98,0	98,0	98,0
12,0	243,0	258,0	258,0	258,0	258,0
14,0	206,0	257,0	257,0	257,0	257,0
16,0	178,0	256,0	256,0	256,0	256,0
18,0	155,0	256,0	256,0	256,0	256,0
20,0	136,0	255,0	255,0	255,0	255,0
22,0	120,0	254,0	254,0	254,0	254,0
24,0	107,0	252,0	252,0	252,0	252,0
26,0	96,0	246,0	246,0	247,0	247,0
28,0	86,0	237,0	239,0	239,0	239,0
30,0	77,0	227,0	231,0	232,0	232,0
32,0	70,0	213,0	222,0	223,0	223,0
34,0	63,0	196,0	211,0	211,0	211,0
36,0	57,0	181,0	199,0	200,0	200,0
38,0	52,0	168,0	189,0	189,0	189,0
40,0	46,5	156,0	177,0	179,0	179,0
44,0	38,0	136,0	155,0	161,0	161,0
48,0	31,0	120,0	137,0	147,0	147,0
52,0	25,1	106,0	122,0	135,0	135,0
56,0	19,5	94,0	109,0	123,0	123,0
60,0	14,2	84,0	98,0	113,0	113,0
64,0	9,3	75,0	88,0	103,0	103,0
68,0	5,6	68,0	79,0	94,0	94,0
72,0	4,6	61,0	72,0	86,0	86,0
76,0		55,0	65,0	78,0	78,0
80,0		49,5	60,0	71,0	71,0
84,0		45,0	54,0	64,0	64,0
88,0		42,5	52,0	58,0	58,0
*** n ***	18	19	19	19	19
yy	0,0	13,0	15,0	18,0	20,0
m/s	12,8	12,8	12,8	12,8	12,8
***	154D	348	347	346	345

SDB	--
98m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
105m	

073806 22.00

m > < t

CODE >0320< B154 3000

m	105,0	105,0	105,0	105,0	105,0									
14,0	198,0	221,0	221,0	221,0	221,0									
16,0	171,0	220,0	220,0	220,0	220,0									
18,0	149,0	219,0	219,0	219,0	219,0									
20,0	132,0	217,0	217,0	217,0	217,0									
22,0	117,0	215,0	215,0	215,0	215,0									
24,0	104,0	214,0	214,0	214,0	214,0									
26,0	93,0	213,0	213,0	213,0	213,0									
28,0	83,0	211,0	211,0	211,0	211,0									
30,0	75,0	208,0	208,0	208,0	208,0									
32,0	68,0	202,0	202,0	202,0	203,0									
34,0	61,0	195,0	197,0	197,0	197,0									
36,0	55,0	181,0	189,0	189,0	189,0									
38,0	50,0	167,0	179,0	179,0	179,0									
40,0	45,0	156,0	170,0	170,0	170,0									
44,0	36,0	135,0	154,0	154,0	154,0									
48,0	26,8	119,0	136,0	140,0	140,0									
52,0	21,2	105,0	121,0	128,0	128,0									
56,0	16,5	93,0	107,0	118,0	118,0									
60,0	12,2	83,0	96,0	108,0	108,0									
64,0	8,2	74,0	87,0	99,0	99,0									
68,0	4,4	66,0	78,0	91,0	91,0									
72,0		59,0	70,0	83,0	83,0									
76,0		53,0	64,0	76,0	76,0									
80,0		48,0	58,0	70,0	70,0									
84,0		43,0	53,0	64,0	64,0									
88,0		38,5	48,0	58,0	58,0									
92,0		35,0	43,5	52,0	52,0									
96,0		33,0	41,5	46,5	46,5									
*** n ***	14	16	16	16	16									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	11,1	11,1	11,1	11,1	11,1									
***	154D	348	347	346	345									

SDB	--
105m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
112m	

073806 22.00

m > < t CODE >0321< B154 3100

m	112,0	112,0	112,0	112,0	112,0									
14,0	190,0	192,0	192,0	192,0	192,0									
16,0	165,0	192,0	192,0	192,0	192,0									
18,0	144,0	191,0	191,0	191,0	191,0									
20,0	127,0	191,0	191,0	191,0	191,0									
22,0	113,0	191,0	191,0	191,0	191,0									
24,0	101,0	190,0	190,0	190,0	191,0									
26,0	90,0	190,0	190,0	190,0	190,0									
28,0	81,0	190,0	190,0	190,0	190,0									
30,0	73,0	190,0	190,0	190,0	190,0									
32,0	65,0	188,0	188,0	188,0	188,0									
34,0	59,0	182,0	187,0	187,0	187,0									
36,0	53,0	177,0	183,0	185,0	185,0									
38,0	48,0	167,0	177,0	177,0	177,0									
40,0	43,5	155,0	167,0	167,0	167,0									
44,0	34,5	135,0	151,0	151,0	151,0									
48,0	25,6	118,0	135,0	138,0	138,0									
52,0	18,1	104,0	120,0	125,0	125,0									
56,0	14,6	92,0	107,0	115,0	115,0									
60,0	11,3	82,0	96,0	106,0	106,0									
64,0	8,3	73,0	86,0	98,0	98,0									
68,0	5,4	65,0	77,0	90,0	90,0									
72,0		58,0	70,0	82,0	82,0									
76,0		52,0	63,0	75,0	75,0									
80,0		47,0	57,0	69,0	69,0									
84,0		42,0	52,0	63,0	63,0									
88,0		37,5	46,5	57,0	57,0									
92,0		33,5	42,5	52,0	52,0									
96,0		30,0	38,5	46,5	46,5									
100,0		28,6	36,5	41,5	41,5									
*** n ***	13	14	14	14	14									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	11,1	11,1	11,1	11,1	11,1									
***	154D	348	347	346	345									

	SDB 112m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

SDB	--
119m	

073806 22.00

m > < t CODE >0322< B154 3200

m	119,0	119,0	119,0	119,0	119,0									
14,0	167,0	167,0	167,0	167,0	167,0									
16,0	158,0	167,0	167,0	167,0	167,0									
18,0	139,0	166,0	166,0	166,0	166,0									
20,0	122,0	166,0	166,0	166,0	166,0									
22,0	109,0	165,0	165,0	165,0	165,0									
24,0	97,0	165,0	165,0	165,0	165,0									
26,0	87,0	164,0	164,0	164,0	164,0									
28,0	78,0	164,0	164,0	164,0	164,0									
30,0	70,0	164,0	164,0	164,0	164,0									
32,0	63,0	163,0	163,0	163,0	163,0									
34,0	56,0	161,0	161,0	161,0	161,0									
36,0	51,0	158,0	158,0	158,0	158,0									
38,0	46,0	155,0	156,0	156,0	156,0									
40,0	41,0	151,0	154,0	154,0	154,0									
44,0	32,0	134,0	146,0	146,0	147,0									
48,0	23,2	117,0	133,0	133,0	133,0									
52,0	16,5	103,0	119,0	122,0	122,0									
56,0	13,4	91,0	106,0	112,0	112,0									
60,0	10,5	81,0	94,0	103,0	103,0									
64,0	7,4	72,0	85,0	95,0	95,0									
68,0	4,0	64,0	76,0	87,0	87,0									
72,0		57,0	68,0	80,0	80,0									
76,0		51,0	62,0	73,0	73,0									
80,0		45,5	56,0	64,0	64,0									
84,0		40,5	50,0	60,0	60,0									
88,0		36,0	45,0	55,0	55,0									
92,0		32,0	40,5	51,0	50,0									
96,0		28,3	36,5	46,0	46,0									
100,0		25,0	33,0	41,0	41,0									
104,0		22,0	29,7	36,5	36,5									
108,0		20,8	28,2	32,0	32,0									
*** n ***	12	12	12	12	12									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	11,1	11,1	11,1	11,1	11,1									
***	154D	348	347	346	345									

SDB	--
119m	

220 t

12.0 x 12.0 m

yy

ISO DIN

SDB	--
126m	

073806 22.00

m > < t CODE >0323< B154 3300

m	126,0	126,0	126,0	126,0	126,0									
16,0	144,0	144,0	144,0	144,0	144,0									
18,0	133,0	143,0	143,0	143,0	143,0									
20,0	117,0	143,0	143,0	143,0	143,0									
22,0	104,0	143,0	143,0	143,0	143,0									
24,0	93,0	142,0	142,0	142,0	142,0									
26,0	83,0	142,0	142,0	142,0	142,0									
28,0	74,0	142,0	142,0	142,0	142,0									
30,0	66,0	141,0	141,0	141,0	141,0									
32,0	60,0	141,0	141,0	141,0	141,0									
34,0	54,0	140,0	140,0	140,0	140,0									
36,0	48,0	139,0	139,0	139,0	139,0									
38,0	43,0	136,0	138,0	138,0	138,0									
40,0	38,5	133,0	137,0	137,0	137,0									
44,0	31,0	127,0	132,0	133,0	133,0									
48,0	23,0	117,0	126,0	128,0	128,0									
52,0	16,3	103,0	117,0	117,0	117,0									
56,0	10,1	91,0	106,0	107,0	107,0									
60,0	7,1	81,0	94,0	99,0	99,0									
64,0	5,5	71,0	84,0	91,0	91,0									
68,0		64,0	76,0	84,0	84,0									
72,0		57,0	68,0	78,0	78,0									
76,0		50,0	61,0	71,0	71,0									
80,0		45,0	55,0	65,0	65,0									
84,0		40,0	49,5	60,0	60,0									
88,0		35,5	44,5	55,0	55,0									
92,0		31,5	40,0	50,0	50,0									
96,0		27,5	36,0	45,0	45,0									
100,0		24,1	32,0	41,0	41,0									
104,0		21,0	28,7	36,5	36,5									
108,0		18,2	25,6	32,5	32,5									
112,0		17,2	24,3	28,4	28,4									
*** n ***	10	10	10	10	10									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	11,1	11,1	11,1	11,1	11,1									
***	154D	348	347	346	345									

	SDB 126m	--	220 t	12.0 x 12.0 m	yy

ISO DIN

SDB	--
133m	

073806 22.00

m > < t CODE >0324< B154 3400

m	133,0	133,0	133,0	133,0	133,0									
16,0	124,0	124,0	124,0	124,0	124,0									
18,0	123,0	123,0	123,0	123,0	123,0									
20,0	113,0	123,0	123,0	123,0	123,0									
22,0	100,0	123,0	123,0	123,0	123,0									
24,0	89,0	122,0	122,0	122,0	122,0									
26,0	80,0	122,0	122,0	122,0	122,0									
28,0	71,0	122,0	122,0	122,0	122,0									
30,0	64,0	122,0	122,0	122,0	122,0									
32,0	57,0	121,0	121,0	121,0	121,0									
34,0	51,0	119,0	119,0	119,0	119,0									
36,0	46,0	117,0	117,0	117,0	117,0									
38,0	41,0	116,0	116,0	116,0	116,0									
40,0	36,5	115,0	115,0	115,0	115,0									
44,0	28,9	112,0	112,0	112,0	112,0									
48,0	21,2	109,0	109,0	109,0	109,0									
52,0	14,8	102,0	105,0	105,0	105,0									
56,0	8,8	90,0	102,0	102,0	102,0									
60,0	5,1	80,0	93,0	95,0	95,0									
64,0	3,9	71,0	83,0	88,0	88,0									
68,0		63,0	75,0	81,0	81,0									
72,0		56,0	67,0	75,0	75,0									
76,0		49,5	60,0	69,0	69,0									
80,0		43,5	54,0	63,0	63,0									
84,0		38,5	48,5	58,0	58,0									
88,0		34,0	43,5	53,0	53,0									
92,0		30,0	38,5	48,5	48,5									
96,0		26,2	34,5	41,5	41,5									
100,0		22,7	31,0	37,5	37,5									
104,0		19,6	27,3	34,0	34,0									
108,0		16,6	24,1	30,5	30,5									
112,0		14,0	21,1	27,0	27,0									
116,0		11,5	18,4	23,6	23,6									
120,0		10,7	17,3	20,0	20,0									
*** n ***	9	9	9	9	9									
yy	0,0	13,0	15,0	18,0	20,0									
m/s	9,0	9,0	9,0	9,0	9,0									
***	154D	348	347	346	345									

	SDB 133m	--	220 t	12.0 x 12.0 m	yy

ISO DIN

SDB	--
140m	

073806 22.00

m > < t

CODE >0325< B154 3500

m	140,0	140,0	140,0	140,0	140,0
16,0	105,0	105,0	105,0	105,0	105,0
18,0	105,0	105,0	105,0	105,0	105,0
20,0	104,0	104,0	104,0	104,0	104,0
22,0	97,0	104,0	104,0	104,0	104,0
24,0	86,0	103,0	103,0	103,0	103,0
26,0	77,0	103,0	103,0	103,0	103,0
28,0	69,0	102,0	102,0	102,0	102,0
30,0	62,0	102,0	102,0	102,0	102,0
32,0	55,0	101,0	101,0	101,0	101,0
34,0	49,5	101,0	101,0	101,0	101,0
36,0	44,5	100,0	100,0	100,0	100,0
38,0	39,5	99,0	99,0	99,0	99,0
40,0	35,5	98,0	98,0	98,0	98,0
44,0	26,4	96,0	96,0	96,0	96,0
48,0	17,6	94,0	94,0	94,0	94,0
52,0	10,3	92,0	92,0	92,0	92,0
56,0	8,0	87,0	89,0	89,0	89,0
60,0	6,0	78,0	85,0	86,0	86,0
64,0		69,0	81,0	83,0	83,0
68,0		61,0	73,0	77,0	77,0
72,0		54,0	66,0	71,0	71,0
76,0		48,0	59,0	65,0	65,0
80,0		42,5	52,0	60,0	60,0
84,0		37,0	47,0	55,0	55,0
88,0		32,5	42,0	51,0	51,0
92,0		28,5	37,5	46,5	46,5
96,0		24,7	33,0	42,0	42,0
100,0		21,2	29,3	38,0	38,0
104,0		18,1	25,8	34,0	34,0
108,0		15,1	22,6	30,5	30,5
112,0		12,5	19,6	26,7	26,8
116,0		10,0	16,9	23,3	23,3
120,0		7,7	14,3	19,9	19,9
124,0		7,0	13,4	16,6	16,6
*** n ***	7	7	7	7	7
yy	0,0	13,0	15,0	18,0	20,0
m/s	9,0	9,0	9,0	9,0	9,0
***	154D	348	347	346	345

SDB	--
140m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S2DB	--
35m	750t

073806 *** 353 22.00

m > < t CODE >0500< B154 3601

m	35,0
7,0	750,0
8,0	750,0
9,0	715,0
10,0	687,0
11,0	659,0
12,0	635,0
14,0	591,0
16,0	552,0
18,0	519,0
20,0	459,0
22,0	402,0
24,0	355,0
26,0	314,0
28,0	282,0
30,0	251,0
32,0	223,0
*** n ***	80
yy	20,0
m/s	14,3

S2DB	--
35m	750t

220 t

12.0 x 12.0 m

yy

ISO DIN

S2DB	--
42m	750t

073806 *** 353 22.00

m > < t CODE >0501< B154 3701

m	42,0
8,0	731,0
9,0	701,0
10,0	674,0
11,0	649,0
12,0	624,0
14,0	581,0
16,0	544,0
18,0	511,0
20,0	482,0
22,0	432,0
24,0	388,0
26,0	350,0
28,0	315,0
30,0	283,0
32,0	258,0
34,0	235,0
36,0	214,0
38,0	193,0
40,0	167,0
*** n ***	76
yy	20,0
m/s	14,3

S2DB	--
42m	750t

220 t

12.0 x 12.0 m

yy

ISO DIN

S2DB	--
49m	750t

073806 *** 353 22.00

m > < t CODE >0502< B154 3801

m	49,0
8,0	713,0
9,0	684,0
10,0	657,0
11,0	634,0
12,0	612,0
14,0	569,0
16,0	533,0
18,0	499,0
20,0	469,0
22,0	438,0
24,0	394,0
26,0	361,0
28,0	331,0
30,0	303,0
32,0	276,0
34,0	252,0
36,0	231,0
38,0	213,0
40,0	197,0
44,0	165,0
*** n ***	73
yy	20,0
m/s	14,3

S2DB	--
49m	750t

220 t

12.0 x 12.0 m

yy

ISO DIN

S2DB	--
56m	750t

073806 *** 353 22.00

m > < t CODE >0503< B154 3901

m	56,0
9,0	665,0
10,0	643,0
11,0	620,0
12,0	597,0
14,0	557,0
16,0	523,0
18,0	490,0
20,0	460,0
22,0	426,0
24,0	385,0
26,0	357,0
28,0	330,0
30,0	306,0
32,0	283,0
34,0	262,0
36,0	242,0
38,0	222,0
40,0	206,0
44,0	179,0
48,0	156,0
52,0	130,0
*** n ***	65
yy	20,0
m/s	14,3

S2DB 56m	-- 750t	220 t	12.0 x 12.0 m	yy	

ISO DIN

S2DB	--
63m	750t

073806 *** 353 22.00

m > < t CODE >0504< B154 3A01

m	63,0
10,0	559,0
11,0	558,0
12,0	558,0
14,0	511,0
16,0	472,0
18,0	438,0
20,0	408,0
22,0	382,0
24,0	358,0
26,0	338,0
28,0	316,0
30,0	295,0
32,0	276,0
34,0	258,0
36,0	241,0
38,0	225,0
40,0	209,0
44,0	181,0
48,0	160,0
52,0	141,0
56,0	123,0
*** n ***	49
yy	20,0
m/s	14,3

S2DB	--
63m	750t

220 t

12.0 x 12.0 m

yy

ISO DIN

S2DB	--
70m	750t

073806 *** 353 22.00

m > < t CODE >0505< B154 3B01

m	70,0
10,0	472,0
11,0	471,0
12,0	471,0
14,0	469,0
16,0	444,0
18,0	414,0
20,0	387,0
22,0	362,0
24,0	340,0
26,0	322,0
28,0	303,0
30,0	283,0
32,0	265,0
34,0	247,0
36,0	231,0
38,0	215,0
40,0	203,0
44,0	182,0
48,0	164,0
52,0	146,0
56,0	130,0
60,0	115,0
64,0	100,0
*** n ***	39
yy	20,0
m/s	12,8

S2DB	--
70m	750t

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2	--
56m	

073806 *** 515 22.00

m > < t CODE >2841< B154 7200

m	56,0
9,0	459,0
10,0	411,0
11,0	358,0
12,0	318,0
14,0	260,0
16,0	217,0
18,0	185,0
20,0	161,0
22,0	141,0
24,0	123,0
26,0	110,0
28,0	99,0
30,0	89,0
32,0	80,0
34,0	73,0
36,0	66,0
38,0	60,0
40,0	55,0
44,0	48,5
48,0	43,0
*** n ***	38
m/s	14,3

S6D2 56m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
56m	

073806 *** 514 22.00

m > < t CODE >2840< B154 7200

m	56,0
9,0	472,0
10,0	411,0
11,0	358,0
12,0	318,0
14,0	260,0
16,0	217,0
18,0	185,0
20,0	161,0
22,0	141,0
24,0	123,0
26,0	110,0
28,0	99,0
30,0	89,0
32,0	80,0
34,0	73,0
36,0	66,0
38,0	60,0
40,0	55,0
44,0	48,5
48,0	43,0
*** n ***	39
m/s	14,3

S6D2 56m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
59m	

073806 *** 515 22.00

m > < t CODE >2843< B154 7300

m	59,5
10,0	411,0
11,0	357,0
12,0	317,0
14,0	258,0
16,0	217,0
18,0	185,0
20,0	159,0
22,0	139,0
24,0	122,0
26,0	109,0
28,0	98,0
30,0	88,0
32,0	79,0
34,0	71,0
36,0	65,0
38,0	59,0
40,0	54,0
44,0	46,0
48,0	40,5
52,0	35,5
*** n ***	33
m/s	14,3

S6D2 59m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
59m	

073806 *** 514 22.00

m > < t CODE >2842< B154 7300

m	59,5
10,0	415,0
11,0	357,0
12,0	317,0
14,0	258,0
16,0	217,0
18,0	185,0
20,0	159,0
22,0	139,0
24,0	122,0
26,0	109,0
28,0	98,0
30,0	88,0
32,0	79,0
34,0	71,0
36,0	65,0
38,0	59,0
40,0	54,0
44,0	46,0
48,0	40,5
52,0	35,5
*** n ***	33
m/s	14,3

S6D2 59m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
63m	

073806 *** 515 22.00

m > < t CODE >2845< B154 7400

m	63,0
10,0	410,0
11,0	355,0
12,0	316,0
14,0	256,0
16,0	215,0
18,0	183,0
20,0	156,0
22,0	136,0
24,0	120,0
26,0	106,0
28,0	96,0
30,0	86,0
32,0	77,0
34,0	69,0
36,0	62,0
38,0	57,0
40,0	52,0
44,0	43,0
48,0	37,5
52,0	32,5
56,0	28,3
*** n ***	32
m/s	14,3

S6D2 63m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
63m	

073806 *** 514 22.00

m > < t CODE >2844< B154 7400

m	63,0
10,0	418,0
11,0	355,0
12,0	316,0
14,0	256,0
16,0	215,0
18,0	183,0
20,0	156,0
22,0	136,0
24,0	120,0
26,0	106,0
28,0	96,0
30,0	86,0
32,0	77,0
34,0	69,0
36,0	62,0
38,0	57,0
40,0	52,0
44,0	43,0
48,0	37,5
52,0	32,5
56,0	28,3
*** n ***	33
m/s	14,3

S6D2 63m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
66m	

073806 *** 515 22.00

m > < t CODE >2847< B154 7500

m	66,5
10,0	409,0
11,0	359,0
12,0	315,0
14,0	256,0
16,0	214,0
18,0	183,0
20,0	156,0
22,0	136,0
24,0	119,0
26,0	105,0
28,0	94,0
30,0	85,0
32,0	77,0
34,0	69,0
36,0	62,0
38,0	56,0
40,0	51,0
44,0	42,0
48,0	35,5
52,0	31,0
56,0	26,8
60,0	23,0
*** n ***	32
m/s	14,3

S6D2 66m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
66m	

073806 *** 514 22.00

m > < t CODE >2846< B154 7500

m	66,5
10,0	420,0
11,0	359,0
12,0	315,0
14,0	256,0
16,0	214,0
18,0	183,0
20,0	156,0
22,0	136,0
24,0	119,0
26,0	105,0
28,0	94,0
30,0	85,0
32,0	77,0
34,0	69,0
36,0	62,0
38,0	56,0
40,0	51,0
44,0	42,0
48,0	35,5
52,0	31,0
56,0	26,8
60,0	23,0
*** n ***	33
m/s	14,3

S6D2 66m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
70m	

073806 *** 515 22.00

m > < t CODE >2849< B154 7600

m	70,0
10,0	396,0
11,0	356,0
12,0	313,0
14,0	255,0
16,0	212,0
18,0	181,0
20,0	156,0
22,0	134,0
24,0	118,0
26,0	104,0
28,0	92,0
30,0	83,0
32,0	75,0
34,0	68,0
36,0	61,0
38,0	54,0
40,0	49,0
44,0	40,5
48,0	32,5
52,0	28,0
56,0	24,1
60,0	20,5
*** n ***	31
m/s	14,3

S6D2 70m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
70m	

073806 *** 514 22.00

m > < t CODE >2848< B154 7600

m	70,0
10,0	419,0
11,0	363,0
12,0	313,0
14,0	255,0
16,0	212,0
18,0	181,0
20,0	156,0
22,0	134,0
24,0	118,0
26,0	104,0
28,0	92,0
30,0	83,0
32,0	75,0
34,0	68,0
36,0	61,0
38,0	54,0
40,0	49,0
44,0	40,5
48,0	32,5
52,0	28,0
56,0	24,1
60,0	20,5
*** n ***	33
m/s	14,3

S6D2 70m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
73m	

073806 *** 515 22.00

m > < t CODE >2851< B154 7700

m	73,5
11,0	346,0
12,0	314,0
14,0	255,0
16,0	211,0
18,0	180,0
20,0	156,0
22,0	134,0
24,0	117,0
26,0	104,0
28,0	92,0
30,0	82,0
32,0	74,0
34,0	67,0
36,0	61,0
38,0	54,0
40,0	48,0
44,0	39,5
48,0	32,5
52,0	26,5
56,0	22,6
60,0	19,3
64,0	16,2
*** n ***	26
m/s	14,3

S6D2 73m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
73m	

073806 *** 514 22.00

m > < t CODE >2850< B154 7700

m	73,5
11,0	367,0
12,0	314,0
14,0	255,0
16,0	211,0
18,0	180,0
20,0	156,0
22,0	134,0
24,0	117,0
26,0	104,0
28,0	92,0
30,0	82,0
32,0	74,0
34,0	67,0
36,0	61,0
38,0	54,0
40,0	48,0
44,0	39,5
48,0	32,5
52,0	26,5
56,0	22,6
60,0	19,3
64,0	16,2
*** n ***	28
m/s	14,3

S6D2 73m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
77m	

073806 *** 515 22.00

m > < t CODE >2853< B154 7800

m	77,0
11,0	337,0
12,0	306,0
14,0	254,0
16,0	211,0
18,0	179,0
20,0	155,0
22,0	134,0
24,0	117,0
26,0	103,0
28,0	91,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,0
44,0	38,5
48,0	31,0
52,0	24,5
56,0	20,4
60,0	17,3
64,0	14,5
68,0	11,8
* n *	25
m/s	14,3

S6D2 77m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
77m	

073806 *** 514 22.00

m > < t CODE >2852< B154 7800

m	77,0
11,0	363,0
12,0	319,0
14,0	254,0
16,0	211,0
18,0	179,0
20,0	155,0
22,0	134,0
24,0	117,0
26,0	103,0
28,0	91,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,0
44,0	38,5
48,0	31,0
52,0	24,5
56,0	20,4
60,0	17,3
64,0	14,5
68,0	11,8
*** n ***	28
m/s	14,3

S6D2 77m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
80m	

073806 *** 515 22.00

m > < t CODE >2855< B154 7900

m	80,5
11,0	328,0
12,0	299,0
14,0	251,0
16,0	212,0
18,0	179,0
20,0	155,0
22,0	135,0
24,0	117,0
26,0	103,0
28,0	92,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,5
44,0	38,5
48,0	31,0
52,0	24,6
56,0	19,4
60,0	16,2
64,0	13,6
68,0	11,2
*** n ***	25
m/s	12,8

S6D2 80m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
80m	

073806 *** 514 22.00

m > < t CODE >2854< B154 7900

m	80,5
11,0	354,0
12,0	323,0
14,0	255,0
16,0	212,0
18,0	179,0
20,0	155,0
22,0	135,0
24,0	117,0
26,0	103,0
28,0	92,0
30,0	81,0
32,0	73,0
34,0	66,0
36,0	60,0
38,0	54,0
40,0	48,5
44,0	38,5
48,0	31,0
52,0	24,6
56,0	19,4
60,0	16,2
64,0	13,6
68,0	11,2
*** n ***	27
m/s	12,8

S6D2 80m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
84m	

073806 *** 515 22.00

m > < t CODE >2857< B154 7A00

m	84,0
11,0	319,0
12,0	291,0
14,0	245,0
16,0	210,0
18,0	177,0
20,0	153,0
22,0	134,0
24,0	117,0
26,0	102,0
28,0	90,0
30,0	80,0
32,0	71,0
34,0	64,0
36,0	58,0
38,0	52,0
40,0	47,0
44,0	37,0
48,0	29,4
52,0	23,1
56,0	17,4
60,0	13,7
64,0	11,3
*** n ***	24
m/s	12,8

S6D2 84m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
84m	

073806 *** 514 22.00

m > < t CODE >2856< B154 7A00

m	84,0
11,0	345,0
12,0	314,0
14,0	255,0
16,0	211,0
18,0	177,0
20,0	153,0
22,0	134,0
24,0	117,0
26,0	102,0
28,0	90,0
30,0	80,0
32,0	71,0
34,0	64,0
36,0	58,0
38,0	52,0
40,0	47,0
44,0	37,0
48,0	29,4
52,0	23,1
56,0	17,4
60,0	13,7
64,0	11,3
*** n ***	26
m/s	12,8

S6D2 84m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 87m	--

073806 *** 515 22.00

m > < t CODE >2859< B154 7B00

m	87,5
12,0	284,0
14,0	240,0
16,0	206,0
18,0	177,0
20,0	152,0
22,0	133,0
24,0	116,0
26,0	101,0
28,0	89,0
30,0	80,0
32,0	71,0
34,0	63,0
36,0	57,0
38,0	51,0
40,0	46,0
44,0	36,5
48,0	28,4
52,0	22,3
56,0	17,0
60,0	12,4
*** n ***	21
m/s	12,8

S6D2 87m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 87m	--

073806 *** 514 22.00

m	87,5
12,0	306,0
14,0	255,0
16,0	210,0
18,0	177,0
20,0	152,0
22,0	133,0
24,0	116,0
26,0	101,0
28,0	89,0
30,0	80,0
32,0	71,0
34,0	63,0
36,0	57,0
38,0	51,0
40,0	46,0
44,0	36,5
48,0	28,4
52,0	22,3
56,0	17,0
60,0	12,4
*** n ***	23
m/s	12,8

m > < t

CODE >2858<

B154 7B00

	S6D2 87m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 91m	--

073806 *** 515 22.00

m > < t CODE >2861< B154 7C00

m	91,0
12,0	276,0
14,0	234,0
16,0	201,0
18,0	175,0
20,0	151,0
22,0	131,0
24,0	115,0
26,0	101,0
28,0	88,0
30,0	78,0
32,0	70,0
34,0	62,0
36,0	55,0
38,0	49,5
40,0	44,5
44,0	35,5
48,0	27,3
52,0	21,0
56,0	16,0
60,0	11,6
*** n ***	20
m/s	12,8

S6D2 91m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 91m	--

073806 *** 514 22.00

m > < t CODE >2860< B154 7C00

m	91,0
12,0	299,0
14,0	254,0
16,0	209,0
18,0	176,0
20,0	151,0
22,0	131,0
24,0	115,0
26,0	101,0
28,0	88,0
30,0	78,0
32,0	70,0
34,0	62,0
36,0	55,0
38,0	49,5
40,0	44,5
44,0	35,5
48,0	27,3
52,0	21,0
56,0	16,0
60,0	11,6
* n *	22
m/s	12,8

S6D2 91m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
94m	

073806 *** 515 22.00

m > < t CODE >2863< B154 7D00

m	94,5
12,0	270,0
14,0	229,0
16,0	197,0
18,0	172,0
20,0	150,0
22,0	130,0
24,0	115,0
26,0	100,0
28,0	88,0
30,0	77,0
32,0	69,0
34,0	61,0
36,0	54,0
38,0	48,5
40,0	43,5
44,0	34,5
48,0	26,3
52,0	19,5
56,0	14,7
60,0	10,6
*** n ***	20
m/s	12,8

S6D2 94m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
94m	

073806 *** 514 22.00

m > < t CODE >2862< B154 7D00

m	94,5
12,0	292,0
14,0	248,0
16,0	208,0
18,0	175,0
20,0	150,0
22,0	130,0
24,0	115,0
26,0	100,0
28,0	88,0
30,0	77,0
32,0	69,0
34,0	61,0
36,0	54,0
38,0	48,5
40,0	43,5
44,0	34,5
48,0	26,3
52,0	19,5
56,0	14,7
60,0	10,6
*** n ***	22
m/s	12,8

S6D2 94m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
98m	

073806 *** 515 22.00

m > < t CODE >2865< B154 7E00

m	98,0
12,0	264,0
14,0	225,0
16,0	194,0
18,0	169,0
20,0	149,0
22,0	130,0
24,0	114,0
26,0	101,0
28,0	88,0
30,0	77,0
32,0	69,0
34,0	62,0
36,0	55,0
38,0	48,5
40,0	43,5
44,0	34,5
48,0	26,4
52,0	19,0
56,0	14,2
60,0	10,5
*** n ***	19
m/s	12,8

S6D2 98m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
98m	

073806 *** 514 22.00

m > < t CODE >2864< B154 7E00

m	98,0
12,0	286,0
14,0	243,0
16,0	209,0
18,0	176,0
20,0	150,0
22,0	130,0
24,0	114,0
26,0	101,0
28,0	88,0
30,0	77,0
32,0	69,0
34,0	62,0
36,0	55,0
38,0	48,5
40,0	43,5
44,0	34,5
48,0	26,4
52,0	19,0
56,0	14,2
60,0	10,5
*** n ***	21
m/s	12,8

S6D2 98m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
101m	

073806 *** 515 22.00

m > < t CODE >2867< B154 7F00

m	101,5
14,0	219,0
16,0	190,0
18,0	166,0
20,0	146,0
22,0	129,0
24,0	114,0
26,0	100,0
28,0	88,0
30,0	77,0
32,0	68,0
34,0	61,0
36,0	54,0
38,0	48,0
40,0	42,5
44,0	34,0
48,0	26,4
52,0	19,3
56,0	13,7
*** n ***	16
m/s	12,8

S6D2 101m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
101m	

073806 *** 514 22.00

m > < t CODE >2866< B154 7F00

m	101,5
14,0	238,0
16,0	206,0
18,0	175,0
20,0	149,0
22,0	129,0
24,0	114,0
26,0	100,0
28,0	88,0
30,0	77,0
32,0	68,0
34,0	61,0
36,0	54,0
38,0	48,0
40,0	42,5
44,0	34,0
48,0	26,4
52,0	19,3
56,0	13,7
*** n ***	17
m/s	12,8

S6D2 101m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
105m	

073806 *** 515 22.00

m > < t CODE >2869< B154 8000

m	105,0
14,0	215,0
16,0	186,0
18,0	162,0
20,0	143,0
22,0	127,0
24,0	112,0
26,0	99,0
28,0	88,0
30,0	77,0
32,0	67,0
34,0	60,0
36,0	53,0
38,0	47,0
40,0	41,5
44,0	33,0
48,0	25,5
52,0	18,7
56,0	12,6
*** n ***	15
m/s	12,8

S6D2 105m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
105m	

073806 *** 514 22.00

m > < t CODE >2868< B154 8000

m	105,0
14,0	233,0
16,0	202,0
18,0	175,0
20,0	148,0
22,0	128,0
24,0	112,0
26,0	99,0
28,0	88,0
30,0	77,0
32,0	67,0
34,0	60,0
36,0	53,0
38,0	47,0
40,0	41,5
44,0	33,0
48,0	25,5
52,0	18,7
56,0	12,6
*** n ***	17
m/s	12,8

S6D2 105m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
108m	

073806 *** 515 22.00

m > < t CODE >2871< B154 8100

m	108,5
14,0	212,0
16,0	184,0
18,0	161,0
20,0	142,0
22,0	126,0
24,0	113,0
26,0	100,0
28,0	89,0
30,0	78,0
32,0	69,0
34,0	61,0
36,0	54,0
38,0	48,5
40,0	42,5
44,0	34,0
48,0	26,6
52,0	20,1
56,0	14,1
*** n ***	15
m/s	12,8

S6D2 108m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
108m	

073806 *** 514 22.00

m > < t CODE >2870< B154 8100

m	108,5
14,0	230,0
16,0	200,0
18,0	175,0
20,0	150,0
22,0	130,0
24,0	113,0
26,0	100,0
28,0	89,0
30,0	78,0
32,0	69,0
34,0	61,0
36,0	54,0
38,0	48,5
40,0	42,5
44,0	34,0
48,0	26,6
52,0	20,1
56,0	14,1
*** n ***	16
m/s	12,8

S6D2 108m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
112m	

073806 *** 515 22.00

m > < t CODE >2873< B154 8200

m	112,0
14,0	206,0
16,0	179,0
18,0	157,0
20,0	138,0
22,0	123,0
24,0	110,0
26,0	98,0
28,0	87,0
30,0	77,0
32,0	67,0
34,0	59,0
36,0	52,0
38,0	46,5
40,0	41,0
44,0	32,0
48,0	24,7
52,0	18,6
56,0	13,0
*** n ***	15
m/s	11,1

S6D2 112m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
112m	

073806 *** 514 22.00

m > < t CODE >2872< B154 8200

m	112,0
14,0	224,0
16,0	195,0
18,0	171,0
20,0	148,0
22,0	128,0
24,0	111,0
26,0	98,0
28,0	87,0
30,0	77,0
32,0	67,0
34,0	59,0
36,0	52,0
38,0	46,5
40,0	41,0
44,0	32,0
48,0	24,7
52,0	18,6
56,0	13,0
*** n ***	16
m/s	11,1

S6D2 112m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
115m	

073806 *** 515 22.00

m > < t CODE >2875< B154 8300

m	115,5
14,0	203,0
16,0	176,0
18,0	155,0
20,0	137,0
22,0	122,0
24,0	109,0
26,0	98,0
28,0	87,0
30,0	77,0
32,0	68,0
34,0	60,0
36,0	53,0
38,0	47,0
40,0	41,5
44,0	32,0
48,0	24,8
52,0	19,0
56,0	13,6
*** n ***	14
m/s	11,1

S6D2 115m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
115m	

073806 *** 514 22.00

m > < t CODE >2874< B154 8300

m	115,5
14,0	205,0
16,0	192,0
18,0	169,0
20,0	149,0
22,0	128,0
24,0	112,0
26,0	98,0
28,0	87,0
30,0	77,0
32,0	68,0
34,0	60,0
36,0	53,0
38,0	47,0
40,0	41,5
44,0	32,0
48,0	24,8
52,0	19,0
56,0	13,6
*** n ***	15
m/s	11,1

S6D2 115m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
119m	

073806 *** 515 22.00

m > < t CODE >2877< B154 8400

m	119,0
14,0	192,0
16,0	172,0
18,0	151,0
20,0	133,0
22,0	118,0
24,0	106,0
26,0	95,0
28,0	84,0
30,0	74,0
32,0	65,0
34,0	58,0
36,0	52,0
38,0	45,5
40,0	40,0
44,0	29,9
48,0	22,2
52,0	15,5
56,0	10,2
*** n ***	14
m/s	11,1

S6D2 119m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
119m	

073806 *** 514 22.00

m > < t CODE >2876< B154 8400

m	119,0
14,0	192,0
16,0	187,0
18,0	165,0
20,0	146,0
22,0	126,0
24,0	110,0
26,0	96,0
28,0	84,0
30,0	74,0
32,0	65,0
34,0	58,0
36,0	52,0
38,0	45,5
40,0	40,0
44,0	29,9
48,0	22,2
52,0	15,5
56,0	10,2
*** n ***	14
m/s	11,1

S6D2 119m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
122m	

073806 *** 515 22.00

m > < t CODE >2879< B154 8500

m	122,5
16,0	170,0
18,0	149,0
20,0	132,0
22,0	118,0
24,0	105,0
26,0	95,0
28,0	85,0
30,0	76,0
32,0	67,0
34,0	59,0
36,0	52,0
38,0	46,0
40,0	40,5
44,0	31,0
48,0	23,2
52,0	16,8
56,0	11,2
*** n ***	12
m/s	11,1

S6D2 122m	--	220 t	12.0 x 12.0 m	360°	

ISO DIN

S6D2	--
122m	

073806 *** 514 22.00

m > < t CODE >2878< B154 8500

m	122,5
16,0	174,0
18,0	163,0
20,0	145,0
22,0	128,0
24,0	111,0
26,0	97,0
28,0	86,0
30,0	76,0
32,0	67,0
34,0	59,0
36,0	52,0
38,0	46,0
40,0	40,5
44,0	31,0
48,0	23,2
52,0	16,8
56,0	11,2
*** n ***	12
m/s	11,1

S6D2 122m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
126m	

073806 *** 515 22.00

m > < t CODE >2881< B154 8600

m	126,0
16,0	165,0
18,0	145,0
20,0	129,0
22,0	114,0
24,0	102,0
26,0	91,0
28,0	82,0
30,0	74,0
32,0	66,0
34,0	57,0
36,0	50,0
38,0	44,5
40,0	39,0
44,0	28,9
48,0	21,3
52,0	15,2
*** n ***	12
m/s	11,1

S6D2 126m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 126m	--

073806 *** 514 22.00

m > < t CODE >2880< B154 8600

m	126,0
16,0	165,0
18,0	159,0
20,0	141,0
22,0	126,0
24,0	109,0
26,0	95,0
28,0	84,0
30,0	74,0
32,0	66,0
34,0	57,0
36,0	50,0
38,0	44,5
40,0	39,0
44,0	28,9
48,0	21,3
52,0	15,2
*** n ***	12
m/s	11,1

S6D2 126m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
129m	

073806 *** 515 22.00

m > < t CODE >2883< B154 8700

m	129,5
16,0	151,0
18,0	144,0
20,0	127,0
22,0	113,0
24,0	101,0
26,0	91,0
28,0	82,0
30,0	74,0
32,0	66,0
34,0	58,0
36,0	51,0
38,0	45,0
40,0	39,5
44,0	29,7
48,0	21,7
52,0	15,7
56,0	10,3
*** n ***	11
m/s	11,1

S6D2	--
129m	

220 t

12.0 x 12.0 m

360°

ISO DIN

S6D2	--
129m	

073806 *** 514 22.00

m > < t CODE >2882< B154 8700

m	129,5
16,0	151,0
18,0	151,0
20,0	140,0
22,0	125,0
24,0	111,0
26,0	97,0
28,0	85,0
30,0	75,0
32,0	67,0
34,0	58,0
36,0	51,0
38,0	45,0
40,0	39,5
44,0	29,7
48,0	21,7
52,0	15,7
56,0	10,3
*** n ***	11
m/s	11,1

S6D2	--
129m	

245 t

12.0 x 12.0 m

360°

ISO DIN

S6D2	--
133m	

073806 *** 515 22.00

m > < t CODE >2885< B154 8800

m	133,0
16,0	142,0
18,0	140,0
20,0	124,0
22,0	110,0
24,0	98,0
26,0	88,0
28,0	79,0
30,0	71,0
32,0	64,0
34,0	57,0
36,0	49,5
38,0	43,0
40,0	37,5
44,0	27,6
48,0	19,3
52,0	13,3
*** n ***	10
m/s	9,0

S6D2 133m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2 133m	--

073806 *** 514 22.00

m > < t CODE >2884< B154 8800

m	133,0
16,0	142,0
18,0	141,0
20,0	136,0
22,0	122,0
24,0	108,0
26,0	95,0
28,0	83,0
30,0	73,0
32,0	65,0
34,0	57,0
36,0	49,5
38,0	43,0
40,0	37,5
44,0	27,6
48,0	19,3
52,0	13,3
*** n ***	10
m/s	9,0

S6D2 133m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
136m	

073806 *** 515 22.00

m > < t CODE >2887< B154 8900

m	136,5
16,0	129,0
18,0	128,0
20,0	122,0
22,0	108,0
24,0	97,0
26,0	87,0
28,0	78,0
30,0	70,0
32,0	63,0
34,0	57,0
36,0	49,5
38,0	43,0
40,0	37,5
44,0	27,7
48,0	18,8
52,0	12,9
*** n ***	9
m/s	9,0

S6D2 136m	--	220 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
136m	

073806 *** 514 22.00

m > < t CODE >2886< B154 8900

m	136,5
16,0	129,0
18,0	128,0
20,0	127,0
22,0	120,0
24,0	107,0
26,0	95,0
28,0	83,0
30,0	73,0
32,0	65,0
34,0	57,0
36,0	49,5
38,0	43,0
40,0	37,5
44,0	27,7
48,0	18,8
52,0	12,9
*** n ***	9
m/s	9,0

S6D2 136m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2	--
140m	

073806 *** 515 22.00

m > < t CODE >2889< B154 8A00

m	140,0
16,0	122,0
18,0	123,0
20,0	119,0
22,0	107,0
24,0	95,0
26,0	85,0
28,0	77,0
30,0	69,0
32,0	62,0
34,0	56,0
36,0	49,5
38,0	43,0
40,0	37,0
44,0	27,4
48,0	18,6
52,0	12,2
*** n ***	9
m/s	9,0

S6D2	--
140m	

220 t

12.0 x 12.0 m

360°

ISO DIN

S6D2	--
140m	

073806 *** 514 22.00

m > < t CODE >2888< B154 8A00

m	140,0
16,0	122,0
18,0	123,0
20,0	119,0
22,0	118,0
24,0	106,0
26,0	95,0
28,0	83,0
30,0	73,0
32,0	65,0
34,0	57,0
36,0	49,5
38,0	43,0
40,0	37,0
44,0	27,4
48,0	18,6
52,0	12,2
*** n ***	9
m/s	9,0

S6D2 140m	--	245 t	12.0 x 12.0 m	360°

ISO DIN

S6D2B	--
20) 56m	

073806 22.00

m > < t

CODE >2890< B154 8B00

m	56,0	56,0	56,0											
9,0	459,0	600,0	600,0											
10,0	411,0	600,0	600,0											
11,0	358,0	600,0	600,0											
12,0	318,0	600,0	600,0											
14,0	260,0	600,0	600,0											
16,0	217,0	576,0	600,0											
18,0	185,0	507,0	540,0											
20,0	161,0	446,0	479,0											
22,0	141,0	393,0	425,0											
24,0	123,0	352,0	377,0											
26,0	110,0	316,0	339,0											
28,0	99,0	287,0	309,0											
30,0	89,0	259,0	279,0											
32,0	80,0	234,0	252,0											
34,0	73,0	217,0	228,0											
36,0	66,0	196,0	206,0											
38,0	60,0	179,0	194,0											
40,0	55,0	166,0	175,0											
44,0	48,5	143,0	153,0											
48,0	43,0	121,0	133,0											
*** n ***	38	55	55											
yy	0,0	18,0	20,0											
m/s	14,3	14,3	14,3											
***	515D	512	513											

S6D2B	--
20) 56m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 59m	

073806 22.00

m > < t

CODE >2891< B154 8C00

m	59,5	59,5	59,5
10,0	411,0	600,0	600,0
11,0	357,0	600,0	600,0
12,0	317,0	600,0	600,0
14,0	258,0	600,0	600,0
16,0	217,0	571,0	600,0
18,0	185,0	510,0	548,0
20,0	159,0	451,0	496,0
22,0	139,0	401,0	442,0
24,0	122,0	356,0	402,0
26,0	109,0	320,0	370,0
28,0	98,0	291,0	338,0
30,0	88,0	262,0	313,0
32,0	79,0	237,0	287,0
34,0	71,0	220,0	265,0
36,0	65,0	199,0	244,0
38,0	59,0	186,0	228,0
40,0	54,0	173,0	213,0
44,0	46,0	148,0	187,0
48,0	40,5	125,0	164,0
52,0	35,5	111,0	143,0
*** n ***	33	55	55
yy	0,0	18,0	20,0
m/s	14,3	14,3	14,3
***	515D	512	513

S6D2B	--
20) 59m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 63m	

073806 22.00

m > < t

CODE >2892< B154 8D00

m	63,0	63,0	63,0											
10,0	410,0	600,0	600,0											
11,0	355,0	600,0	600,0											
12,0	316,0	600,0	600,0											
14,0	256,0	600,0	600,0											
16,0	215,0	570,0	599,0											
18,0	183,0	511,0	542,0											
20,0	156,0	449,0	487,0											
22,0	136,0	405,0	433,0											
24,0	120,0	360,0	390,0											
26,0	106,0	326,0	351,0											
28,0	96,0	295,0	317,0											
30,0	86,0	266,0	286,0											
32,0	77,0	246,0	260,0											
34,0	69,0	225,0	237,0											
36,0	62,0	204,0	221,0											
38,0	57,0	189,0	205,0											
40,0	52,0	175,0	190,0											
44,0	43,0	154,0	165,0											
48,0	37,5	134,0	142,0											
52,0	32,5	114,0	120,0											
56,0	28,3	97,0	108,0											
*** n ***	32	55	55											
yy	0,0	18,0	20,0											
m/s	14,3	14,3	14,3											
***	515D	512	513											

S6D2B	--
20) 63m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 66m	

073806 22.00

m > < t

CODE >2893< B154 8E00

m	66,5	66,5	66,5
10,0	409,0	600,0	600,0
11,0	359,0	600,0	600,0
12,0	315,0	600,0	600,0
14,0	256,0	600,0	600,0
16,0	214,0	560,0	583,0
18,0	183,0	506,0	536,0
20,0	156,0	449,0	486,0
22,0	136,0	405,0	435,0
24,0	119,0	364,0	393,0
26,0	105,0	329,0	352,0
28,0	94,0	297,0	320,0
30,0	85,0	269,0	289,0
32,0	77,0	251,0	264,0
34,0	69,0	228,0	245,0
36,0	62,0	211,0	225,0
38,0	56,0	196,0	206,0
40,0	51,0	181,0	193,0
44,0	42,0	154,0	168,0
48,0	35,5	137,0	144,0
52,0	31,0	121,0	127,0
56,0	26,8	106,0	112,0
60,0	23,0	89,0	94,0
*** n ***	32	55	55
yy	0,0	18,0	20,0
m/s	14,3	14,3	14,3
***	515D	512	513

S6D2B	--
20) 66m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 70m	

073806 22.00

m > < t

CODE >2894<

B154 8F00

m	70,0	70,0	70,0
10,0	396,0	567,0	566,0
11,0	356,0	566,0	565,0
12,0	313,0	565,0	565,0
14,0	255,0	562,0	562,0
16,0	212,0	542,0	558,0
18,0	181,0	499,0	522,0
20,0	156,0	448,0	481,0
22,0	134,0	404,0	436,0
24,0	118,0	367,0	395,0
26,0	104,0	332,0	355,0
28,0	92,0	301,0	322,0
30,0	83,0	273,0	293,0
32,0	75,0	254,0	268,0
34,0	68,0	231,0	249,0
36,0	61,0	214,0	231,0
38,0	54,0	197,0	214,0
40,0	49,0	182,0	198,0
44,0	40,5	155,0	170,0
48,0	32,5	136,0	149,0
52,0	28,0	120,0	131,0
56,0	24,1	108,0	114,0
60,0	20,5	92,0	97,0
*** n ***	31	50	50
yy	0,0	18,0	20,0
m/s	14,3	14,3	14,3
***	515D	512	513

S6D2B	--
20) 70m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 73m	

073806 22.00

m > < t CODE >2895< B154 9000

m	73,5	73,5	73,5											
11,0	346,0	519,0	519,0											
12,0	314,0	518,0	518,0											
14,0	255,0	516,0	515,0											
16,0	211,0	513,0	512,0											
18,0	180,0	479,0	497,0											
20,0	156,0	443,0	464,0											
22,0	134,0	405,0	427,0											
24,0	117,0	364,0	387,0											
26,0	104,0	331,0	352,0											
28,0	92,0	301,0	322,0											
30,0	82,0	275,0	296,0											
32,0	74,0	255,0	269,0											
34,0	67,0	236,0	249,0											
36,0	61,0	218,0	230,0											
38,0	54,0	202,0	213,0											
40,0	48,0	183,0	199,0											
44,0	39,5	160,0	175,0											
48,0	32,5	140,0	154,0											
52,0	26,5	123,0	135,0											
56,0	22,6	110,0	116,0											
60,0	19,3	94,0	99,0											
64,0	16,2	84,0	89,0											
*** n ***	26	44	44											
yy	0,0	18,0	20,0											
m/s	14,3	14,3	14,3											
***	515D	512	513											

S6D2B	--
20) 73m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 77m	

073806 22.00

m > < t CODE >2896< B154 9100

m	77,0	77,0	77,0
11,0	337,0	481,0	481,0
12,0	306,0	480,0	480,0
14,0	254,0	479,0	478,0
16,0	211,0	476,0	476,0
18,0	179,0	462,0	473,0
20,0	155,0	433,0	447,0
22,0	134,0	396,0	416,0
24,0	117,0	362,0	384,0
26,0	103,0	331,0	352,0
28,0	91,0	302,0	323,0
30,0	81,0	277,0	297,0
32,0	73,0	257,0	271,0
34,0	66,0	236,0	252,0
36,0	60,0	217,0	234,0
38,0	54,0	202,0	214,0
40,0	48,0	189,0	200,0
44,0	38,5	165,0	175,0
48,0	31,0	144,0	152,0
52,0	24,5	123,0	136,0
56,0	20,4	109,0	121,0
60,0	17,3	96,0	107,0
64,0	14,5	86,0	91,0
68,0	11,8	76,0	80,0
*** n ***	25	40	40
yy	0,0	18,0	20,0
m/s	14,3	14,3	14,3
***	515D	512	513

S6D2B	--
20) 77m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 80m	

073806 22.00

m > < t CODE >2897< B154 9200

m	80,5	80,5	80,5
11,0	328,0	441,0	441,0
12,0	299,0	440,0	440,0
14,0	251,0	439,0	439,0
16,0	212,0	437,0	437,0
18,0	179,0	432,0	435,0
20,0	155,0	410,0	421,0
22,0	135,0	386,0	399,0
24,0	117,0	357,0	372,0
26,0	103,0	331,0	350,0
28,0	92,0	303,0	323,0
30,0	81,0	277,0	297,0
32,0	73,0	260,0	274,0
34,0	66,0	238,0	250,0
36,0	60,0	218,0	236,0
38,0	54,0	204,0	216,0
40,0	48,5	191,0	202,0
44,0	38,5	167,0	176,0
48,0	31,0	146,0	155,0
52,0	24,6	125,0	139,0
56,0	19,4	111,0	124,0
60,0	16,2	98,0	110,0
64,0	13,6	88,0	93,0
68,0	11,2	77,0	82,0
72,0		67,0	71,0
*** n ***	25	36	36
yy	0,0	18,0	20,0
m/s	12,8	12,8	12,8
***	515D	512	513

S6D2B	--
20) 80m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 84m	

073806 22.00

m > < t CODE >2898< B154 9300

m	84,0	84,0	84,0
11,0	319,0	409,0	409,0
12,0	291,0	409,0	409,0
14,0	245,0	408,0	408,0
16,0	210,0	407,0	407,0
18,0	177,0	405,0	405,0
20,0	153,0	390,0	400,0
22,0	134,0	372,0	385,0
24,0	117,0	346,0	362,0
26,0	102,0	326,0	340,0
28,0	90,0	301,0	315,0
30,0	80,0	278,0	297,0
32,0	71,0	255,0	274,0
34,0	64,0	238,0	251,0
36,0	58,0	222,0	234,0
38,0	52,0	207,0	218,0
40,0	47,0	189,0	204,0
44,0	37,0	167,0	179,0
48,0	29,4	147,0	156,0
52,0	23,1	127,0	140,0
56,0	17,4	112,0	125,0
60,0	13,7	99,0	111,0
64,0	11,3	89,0	95,0
68,0		79,0	84,0
72,0		69,0	73,0
*** n ***	24	32	32
yy	0,0	18,0	20,0
m/s	12,8	12,8	12,8
***	515D	512	513

S6D2B	--
20) 84m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 87m	

073806 22.00

m > < t CODE >2899< B154 9400

m	87,5	87,5	87,5											
12,0	284,0	377,0	377,0											
14,0	240,0	376,0	376,0											
16,0	206,0	375,0	374,0											
18,0	177,0	372,0	372,0											
20,0	152,0	363,0	370,0											
22,0	133,0	351,0	361,0											
24,0	116,0	332,0	343,0											
26,0	101,0	314,0	326,0											
28,0	89,0	297,0	310,0											
30,0	80,0	275,0	288,0											
32,0	71,0	255,0	273,0											
34,0	63,0	239,0	252,0											
36,0	57,0	219,0	236,0											
38,0	51,0	207,0	219,0											
40,0	46,0	189,0	205,0											
44,0	36,5	168,0	180,0											
48,0	28,4	148,0	157,0											
52,0	22,3	128,0	141,0											
56,0	17,0	114,0	126,0											
60,0	12,4	100,0	112,0											
64,0		91,0	96,0											
68,0		81,0	85,0											
72,0		71,0	76,0											
76,0		63,0	68,0											
*** n ***	21	29	29											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

S6D2B	--
20) 87m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
20) 91m	

073806 22.00

m > < t

CODE >2900<

B154 9500

m	91,0	91,0	91,0											
12,0	276,0	351,0	351,0											
14,0	234,0	351,0	351,0											
16,0	201,0	350,0	350,0											
18,0	175,0	349,0	348,0											
20,0	151,0	346,0	346,0											
22,0	131,0	336,0	342,0											
24,0	115,0	320,0	328,0											
26,0	101,0	306,0	316,0											
28,0	88,0	288,0	302,0											
30,0	78,0	271,0	283,0											
32,0	70,0	253,0	269,0											
34,0	62,0	237,0	249,0											
36,0	55,0	220,0	236,0											
38,0	49,5	207,0	218,0											
40,0	44,5	191,0	207,0											
44,0	35,5	165,0	181,0											
48,0	27,3	147,0	161,0											
52,0	21,0	130,0	143,0											
56,0	16,0	117,0	124,0											
60,0	11,6	104,0	111,0											
64,0		92,0	98,0											
68,0		83,0	89,0											
72,0		74,0	79,0											
76,0		65,0	69,0											
80,0		59,0	63,0											
*** n ***	20	27	27											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

S6D2B	--
20) 91m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B 94m	--

073806 22.00

m > < t

CODE >2901<

B154 9600

m	94,5	94,5	94,5											
12,0	270,0	323,0	323,0											
14,0	229,0	323,0	323,0											
16,0	197,0	322,0	322,0											
18,0	172,0	321,0	321,0											
20,0	150,0	319,0	319,0											
22,0	130,0	314,0	318,0											
24,0	115,0	303,0	309,0											
26,0	100,0	290,0	298,0											
28,0	88,0	278,0	287,0											
30,0	77,0	260,0	274,0											
32,0	69,0	245,0	259,0											
34,0	61,0	231,0	246,0											
36,0	54,0	218,0	229,0											
38,0	48,5	206,0	218,0											
40,0	43,5	190,0	201,0											
44,0	34,5	166,0	182,0											
48,0	26,3	149,0	158,0											
52,0	19,5	133,0	142,0											
56,0	14,7	118,0	126,0											
60,0	10,6	102,0	114,0											
64,0		93,0	102,0											
68,0		85,0	91,0											
72,0		71,0	82,0											
76,0		64,0	75,0											
80,0		57,0	67,0											
84,0		50,0	60,0											
*** n ***	20	24	24											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

	S6D2B 94m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

S6D2B	--
98m	

073806 22.00

m > < t

CODE >2902< B154 9700

m	98,0	98,0	98,0											
12,0	264,0	301,0	301,0											
14,0	225,0	300,0	300,0											
16,0	194,0	299,0	299,0											
18,0	169,0	299,0	299,0											
20,0	149,0	299,0	299,0											
22,0	130,0	297,0	297,0											
24,0	114,0	287,0	292,0											
26,0	101,0	279,0	285,0											
28,0	88,0	267,0	274,0											
30,0	77,0	255,0	264,0											
32,0	69,0	242,0	252,0											
34,0	62,0	229,0	239,0											
36,0	55,0	217,0	227,0											
38,0	48,5	200,0	215,0											
40,0	43,5	191,0	201,0											
44,0	34,5	166,0	181,0											
48,0	26,4	151,0	160,0											
52,0	19,0	131,0	145,0											
56,0	14,2	117,0	130,0											
60,0	10,5	104,0	116,0											
64,0		94,0	100,0											
68,0		83,0	92,0											
72,0		73,0	84,0											
76,0		67,0	71,0											
80,0		61,0	66,0											
84,0		54,0	58,0											
*** n ***	19	22	22											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

	S6D2B 98m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

S6D2B	--
101m	

073806 22.00

m > < t

CODE >2903<

B154 9800

m	101,5	101,5	101,5											
14,0	219,0	275,0	275,0											
16,0	190,0	275,0	275,0											
18,0	166,0	274,0	274,0											
20,0	146,0	273,0	273,0											
22,0	129,0	273,0	273,0											
24,0	114,0	268,0	271,0											
26,0	100,0	260,0	265,0											
28,0	88,0	253,0	258,0											
30,0	77,0	243,0	249,0											
32,0	68,0	232,0	239,0											
34,0	61,0	221,0	229,0											
36,0	54,0	212,0	220,0											
38,0	48,0	197,0	206,0											
40,0	42,5	188,0	197,0											
44,0	34,0	165,0	179,0											
48,0	26,4	148,0	162,0											
52,0	19,3	132,0	146,0											
56,0	13,7	120,0	127,0											
60,0		107,0	114,0											
64,0		96,0	102,0											
68,0		87,0	93,0											
72,0		78,0	83,0											
76,0		68,0	73,0											
80,0		62,0	67,0											
84,0		56,0	60,0											
88,0		50,0	54,0											
*** n ***	16	20	20											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

S6D2B	--
101m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
105m	

073806 22.00

m > < t CODE >2904< B154 9A00

m	105,0	105,0	105,0											
14,0	215,0	259,0	259,0											
16,0	186,0	258,0	258,0											
18,0	162,0	258,0	258,0											
20,0	143,0	257,0	257,0											
22,0	127,0	256,0	256,0											
24,0	112,0	254,0	255,0											
26,0	99,0	248,0	251,0											
28,0	88,0	240,0	245,0											
30,0	77,0	232,0	237,0											
32,0	67,0	223,0	229,0											
34,0	60,0	215,0	222,0											
36,0	53,0	204,0	212,0											
38,0	47,0	194,0	203,0											
40,0	41,5	185,0	193,0											
44,0	33,0	165,0	174,0											
48,0	25,5	149,0	158,0											
52,0	18,7	134,0	143,0											
56,0	12,6	121,0	128,0											
60,0		104,0	117,0											
64,0		93,0	105,0											
68,0		82,0	94,0											
72,0		75,0	86,0											
76,0		69,0	77,0											
80,0		63,0	68,0											
84,0		57,0	62,0											
88,0		48,5	57,0											
92,0		42,0	51,0											
*** n ***	15	19	19											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

	S6D2B 105m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

S6D2B	--
108m	

073806 22.00

m > < t CODE >2905< B154 9B00

m	108,5	108,5	108,5											
14,0	212,0	239,0	239,0											
16,0	184,0	238,0	238,0											
18,0	161,0	236,0	236,0											
20,0	142,0	235,0	235,0											
22,0	126,0	234,0	234,0											
24,0	113,0	233,0	233,0											
26,0	100,0	228,0	230,0											
28,0	89,0	223,0	225,0											
30,0	78,0	218,0	221,0											
32,0	69,0	211,0	215,0											
34,0	61,0	203,0	208,0											
36,0	54,0	196,0	202,0											
38,0	48,5	187,0	194,0											
40,0	42,5	179,0	186,0											
44,0	34,0	162,0	170,0											
48,0	26,6	143,0	156,0											
52,0	20,1	131,0	141,0											
56,0	14,1	121,0	128,0											
60,0		105,0	110,0											
64,0		96,0	102,0											
68,0		89,0	94,0											
72,0		76,0	87,0											
76,0		70,0	77,0											
80,0		64,0	69,0											
84,0		59,0	63,0											
88,0		51,0	55,0											
92,0		43,5	47,5											
96,0		40,0	44,0											
*** n ***	15	17	17											
yy	0,0	18,0	20,0											
m/s	12,8	12,8	12,8											
***	515D	512	513											

S6D2B 108m	--	220 t	12.0 x 12.0 m	yy	

ISO DIN

S6D2B	--
112m	

073806 22.00

m > < t CODE >2906< B154 9C00

m	112,0	112,0	112,0											
14,0	206,0	225,0	225,0											
16,0	179,0	224,0	224,0											
18,0	157,0	223,0	223,0											
20,0	138,0	222,0	222,0											
22,0	123,0	220,0	220,0											
24,0	110,0	219,0	219,0											
26,0	98,0	215,0	218,0											
28,0	87,0	211,0	214,0											
30,0	77,0	205,0	209,0											
32,0	67,0	200,0	203,0											
34,0	59,0	195,0	198,0											
36,0	52,0	187,0	192,0											
38,0	46,5	180,0	186,0											
40,0	41,0	173,0	179,0											
44,0	32,0	159,0	166,0											
48,0	24,7	141,0	148,0											
52,0	18,6	127,0	136,0											
56,0	13,0	114,0	126,0											
60,0		104,0	111,0											
64,0		96,0	102,0											
68,0		88,0	95,0											
72,0		75,0	81,0											
76,0		70,0	75,0											
80,0		64,0	69,0											
84,0		59,0	63,0											
88,0		53,0	57,0											
92,0		47,5	52,0											
96,0		42,0	46,0											
*** n ***	15	16	16											
yy	0,0	18,0	20,0											
m/s	11,1	11,1	11,1											
***	515D	512	513											

S6D2B	--
112m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
115m	

073806 22.00

m > < t

CODE >2907< B154 9D00

m	115,5	115,5	115,5
14,0	203,0	205,0	205,0
16,0	176,0	205,0	205,0
18,0	155,0	204,0	204,0
20,0	137,0	202,0	202,0
22,0	122,0	201,0	201,0
24,0	109,0	198,0	198,0
26,0	98,0	196,0	196,0
28,0	87,0	194,0	194,0
30,0	77,0	190,0	190,0
32,0	68,0	186,0	186,0
34,0	60,0	181,0	184,0
36,0	53,0	175,0	180,0
38,0	47,0	170,0	175,0
40,0	41,5	163,0	169,0
44,0	32,0	150,0	159,0
48,0	24,8	138,0	144,0
52,0	19,0	127,0	134,0
56,0	13,6	112,0	123,0
60,0		103,0	112,0
64,0		95,0	101,0
68,0		82,0	93,0
72,0		75,0	83,0
76,0		70,0	75,0
80,0		64,0	69,0
84,0		59,0	63,0
88,0		52,0	56,0
92,0		46,0	49,5
96,0		41,0	45,0
100,0		37,5	41,5
*** n ***	14	15	15
yy	0,0	18,0	20,0
m/s	11,1	11,1	11,1
***	515D	512	513

S6D2B	--
115m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
119m	

073806 22.00

m > < t

CODE >2908< B154 9E00

m	119,0	119,0	119,0											
14,0	192,0	192,0	192,0											
16,0	172,0	191,0	191,0											
18,0	151,0	190,0	190,0											
20,0	133,0	188,0	188,0											
22,0	118,0	187,0	187,0											
24,0	106,0	187,0	187,0											
26,0	95,0	185,0	185,0											
28,0	84,0	181,0	181,0											
30,0	74,0	178,0	178,0											
32,0	65,0	176,0	176,0											
34,0	58,0	172,0	172,0											
36,0	52,0	168,0	168,0											
38,0	45,5	164,0	165,0											
40,0	40,0	157,0	160,0											
44,0	29,9	146,0	151,0											
48,0	22,2	135,0	140,0											
52,0	15,5	125,0	131,0											
56,0	10,2	110,0	116,0											
60,0		102,0	108,0											
64,0		94,0	100,0											
68,0		81,0	92,0											
72,0		75,0	84,0											
76,0		69,0	76,0											
80,0		64,0	69,0											
84,0		59,0	63,0											
88,0		54,0	58,0											
92,0		49,0	53,0											
96,0		44,5	48,0											
100,0		39,5	43,5											
104,0		35,0	39,0											
*** n ***	14	14	14											
yy	0,0	18,0	20,0											
m/s	11,1	11,1	11,1											
***	515D	512	513											

S6D2B	--
119m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
122m	

073806 22.00

m > < t CODE >2909< B154 9F00

m	122,5	122,5	122,5
16,0	170,0	174,0	173,0
18,0	149,0	173,0	175,0
20,0	132,0	171,0	171,0
22,0	118,0	169,0	167,0
24,0	105,0	166,0	165,0
26,0	95,0	163,0	163,0
28,0	85,0	161,0	160,0
30,0	76,0	157,0	156,0
32,0	67,0	153,0	153,0
34,0	59,0	150,0	149,0
36,0	52,0	146,0	146,0
38,0	46,0	143,0	142,0
40,0	40,5	139,0	138,0
44,0	31,0	131,0	130,0
48,0	23,2	123,0	123,0
52,0	16,8	115,0	115,0
56,0	11,2	107,0	107,0
60,0		100,0	100,0
64,0		87,0	92,0
68,0		81,0	85,0
72,0		75,0	79,0
76,0		69,0	73,0
80,0		62,0	67,0
84,0		56,0	60,0
88,0		51,0	55,0
92,0		45,0	49,0
96,0		39,5	43,0
100,0		34,0	37,5
104,0		28,6	32,0
*** n ***	12	12	12
yy	0,0	18,0	20,0
m/s	11,1	11,1	11,1
***	515D	512	513

S6D2B	--
122m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
126m	

073806 22.00

m > < t

CODE >2910< B154 A000

m	126,0	126,0	126,0											
16,0	165,0	165,0	165,0											
18,0	145,0	164,0	164,0											
20,0	129,0	163,0	163,0											
22,0	114,0	163,0	163,0											
24,0	102,0	162,0	162,0											
26,0	91,0	162,0	162,0											
28,0	82,0	161,0	161,0											
30,0	74,0	161,0	161,0											
32,0	66,0	158,0	160,0											
34,0	57,0	156,0	158,0											
36,0	50,0	152,0	155,0											
38,0	44,5	149,0	152,0											
40,0	39,0	146,0	150,0											
44,0	28,9	138,0	142,0											
48,0	21,3	130,0	135,0											
52,0	15,2	117,0	126,0											
56,0		109,0	114,0											
60,0		100,0	106,0											
64,0		90,0	99,0											
68,0		81,0	92,0											
72,0		74,0	80,0											
76,0		69,0	74,0											
80,0		64,0	69,0											
84,0		59,0	64,0											
88,0		53,0	57,0											
92,0		47,0	51,0											
96,0		41,5	45,5											
100,0		38,0	42,0											
104,0		34,5	39,0											
108,0		31,0	35,5											
*** n ***	12	12	12											
yy	0,0	18,0	20,0											
m/s	11,1	11,1	11,1											
***	515D	512	513											

S6D2B	--
126m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
129m	

073806 22.00

m > < t

CODE >2911< B154 A100

m	129,5	129,5	129,5
16,0	151,0	151,0	151,0
18,0	144,0	151,0	151,0
20,0	127,0	150,0	150,0
22,0	113,0	150,0	150,0
24,0	101,0	150,0	150,0
26,0	91,0	149,0	149,0
28,0	82,0	148,0	148,0
30,0	74,0	147,0	147,0
32,0	66,0	145,0	145,0
34,0	58,0	143,0	143,0
36,0	51,0	141,0	142,0
38,0	45,0	138,0	140,0
40,0	39,5	135,0	137,0
44,0	29,7	130,0	132,0
48,0	21,7	121,0	124,0
52,0	15,7	113,0	117,0
56,0	10,3	105,0	110,0
60,0		96,0	101,0
64,0		88,0	92,0
68,0		80,0	84,0
72,0		74,0	78,0
76,0		67,0	72,0
80,0		62,0	66,0
84,0		56,0	60,0
88,0		51,0	55,0
92,0		46,0	49,5
96,0		41,0	45,5
100,0		36,5	42,0
104,0		32,0	39,0
108,0		27,5	36,0
112,0		23,4	32,5
*** n ***	11	11	11
yy	0,0	18,0	20,0
m/s	11,1	11,1	11,1
***	515D	512	513

S6D2B	--
129m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
133m	

073806 22.00

m > < t CODE >2912< B154 A200

m	133,0	133,0	133,0
16,0	142,0	142,0	142,0
18,0	140,0	141,0	141,0
20,0	124,0	141,0	141,0
22,0	110,0	141,0	141,0
24,0	98,0	140,0	140,0
26,0	88,0	140,0	140,0
28,0	79,0	139,0	139,0
30,0	71,0	138,0	138,0
32,0	64,0	137,0	137,0
34,0	57,0	136,0	137,0
36,0	49,5	134,0	135,0
38,0	43,0	132,0	133,0
40,0	37,5	129,0	130,0
44,0	27,6	123,0	125,0
48,0	19,3	117,0	120,0
52,0	13,3	110,0	114,0
56,0		103,0	107,0
60,0		96,0	101,0
64,0		87,0	92,0
68,0		79,0	84,0
72,0		73,0	77,0
76,0		66,0	71,0
80,0		60,0	64,0
84,0		54,0	58,0
88,0		48,5	52,0
92,0		45,0	48,5
96,0		41,5	45,0
100,0		38,0	42,0
104,0		34,5	38,5
108,0		29,8	34,0
112,0		25,4	29,4
116,0		21,2	24,8
*** n ***	10	10	10
yy	0,0	18,0	20,0
m/s	9,0	9,0	9,0
***	515D	512	513

S6D2B	--
133m	

220 t

12.0 x 12.0 m

yy

ISO DIN

S6D2B	--
136m	

073806 22.00

m > < t

CODE >2913< B154 A300

m	136,5	136,5	136,5											
16,0	129,0	129,0	129,0											
18,0	128,0	128,0	128,0											
20,0	122,0	127,0	127,0											
22,0	108,0	126,0	126,0											
24,0	97,0	126,0	126,0											
26,0	87,0	125,0	125,0											
28,0	78,0	124,0	124,0											
30,0	70,0	124,0	124,0											
32,0	63,0	123,0	123,0											
34,0	57,0	123,0	123,0											
36,0	49,5	122,0	122,0											
38,0	43,0	121,0	121,0											
40,0	37,5	119,0	120,0											
44,0	27,7	114,0	116,0											
48,0	18,8	110,0	112,0											
52,0	12,9	104,0	106,0											
56,0		97,0	99,0											
60,0		90,0	93,0											
64,0		84,0	87,0											
68,0		78,0	82,0											
72,0		72,0	76,0											
76,0		66,0	70,0											
80,0		60,0	63,0											
84,0		54,0	57,0											
88,0		48,5	52,0											
92,0		45,0	48,5											
96,0		41,5	45,0											
100,0		38,5	42,0											
104,0		35,0	39,0											
108,0		30,0	34,5											
112,0		25,8	29,9											
116,0		21,5	25,3											
*** n ***	9	9	9											
yy	0,0	18,0	20,0											
m/s	9,0	9,0	9,0											
***	515D	512	513											

	S6D2B 136m	--	220 t	12.0 x 12.0 m	yy		

ISO DIN

S6D2B	--
140m	

073806 22.00

m > < t CODE >2914< B154 A400

m	140,0	140,0	140,0											
16,0	122,0	122,0	122,0											
18,0	123,0	123,0	123,0											
20,0	119,0	119,0	119,0											
22,0	107,0	119,0	119,0											
24,0	95,0	118,0	118,0											
26,0	85,0	118,0	117,0											
28,0	77,0	117,0	117,0											
30,0	69,0	117,0	116,0											
32,0	62,0	116,0	115,0											
34,0	56,0	116,0	115,0											
36,0	49,5	115,0	114,0											
38,0	43,0	115,0	113,0											
40,0	37,0	113,0	112,0											
44,0	27,4	108,0	109,0											
48,0	18,6	103,0	105,0											
52,0	12,2	99,0	101,0											
56,0		93,0	96,0											
60,0		87,0	90,0											
64,0		81,0	85,0											
68,0		76,0	80,0											
72,0		71,0	75,0											
76,0		65,0	69,0											
80,0		59,0	63,0											
84,0		53,0	57,0											
88,0		48,0	52,0											
92,0		44,5	48,0											
96,0		41,0	45,0											
100,0		38,0	41,5											
104,0		34,5	38,5											
108,0		30,0	34,0											
112,0		25,7	29,6											
116,0		21,4	24,9											
*** n ***	9	9	9											
yy	0,0	18,0	20,0											
m/s	9,0	9,0	9,0											
***	515D	512	513											

	S6D2B 140m	--	220 t	12.0 x 12.0 m	yy	