

PLAN HISTORY

DATE	REV.NO.	DESCRIPTION	DRAWN	CHKD	APPRD
2023.02.21	ORG.	ORIGINALLEY PREPARED FOR SHIP NO. 8170	김 태 영	김 태 환	김 상 형
2023.02.21	0	제작용으로 초기 배포함 8170	김 태 영	김 태 환	김 상 형

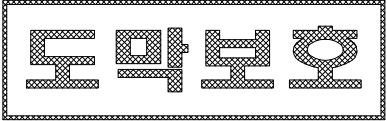
◇ NOTE ◇

1. TOTAL WEIGHT : 454 k g
2. P.O.R NO. : T71
3. 제작시 문제점은 당 설계사와 협의 후 제작 할 것.
4. 제작시공 요령 및 각 FITTING류 상세는 당부서 표준서
"GRATING, LADDER, HANDRAIL 작업표준도(HS(D)-F8-715)에 준함.

C A U T I O N

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION.
HENCE, THE REPRODUCTION, TRANSFER AND/OR UTILIZATION IN WHOLE
OR IN PART ARE PROHIBITED WITHOUT THE WRITTEN PERMISSION OF
HYUNDAI SAMHO HEAVY INDUSTRIES CO., LTD.

A3: -
A4: 8 (8 SHEETS WITH A COVER)



DEP'T NO. B125	SHIP NO. 8170	SHIP TYPE 174,000 CBM CLASS LNG CARRIER
TEL. NO. 2992	SHIP DESIGN OFFICE MACHINERY OUTFITTING DESIGN DEP'T	SHIP NAME
APPROVED BY 김 상 형	TITLE PC'S OF GRATING, LADDER HANDRAIL IN E/R (H21P/S BLOCK, 선행)	
CHECKED BY 김 태 환		
DRAWN BY 김 태 영		
 HYUNDAI SAMHO HEAVY INDUSTRIES CO., LTD. SAMHO SHIPYARD, KOREA	SCALE NONE	DWG NO. H21P0F30512M-0
	DATE 2023.02.21	CONSOLIDATED NO.



PIECE LIST

SHIP NO.	8170
DWG NO.	H21P0F30512M

NO.	STAGE	ITEM	PIECE NO.	Q'TY	WEIGHT (kg)	REMARK
1	H21P0-F30-000	GRATING & FRAME & CHECKERED PLATE(WITH H/R)	H21P-52-GC01,02	2	50	T71-01
		VERTICAL LADDER	H21P-52-VL01	1	31	T71-02
		INCLINED LADDER	H21P-52-IL01	1	342	T71-03
2	H21S0-F30-000	VERTICAL LADDER	H21S-52-VL01	1	31	T71-04

#TOTAL WEIGHT : 454 kg



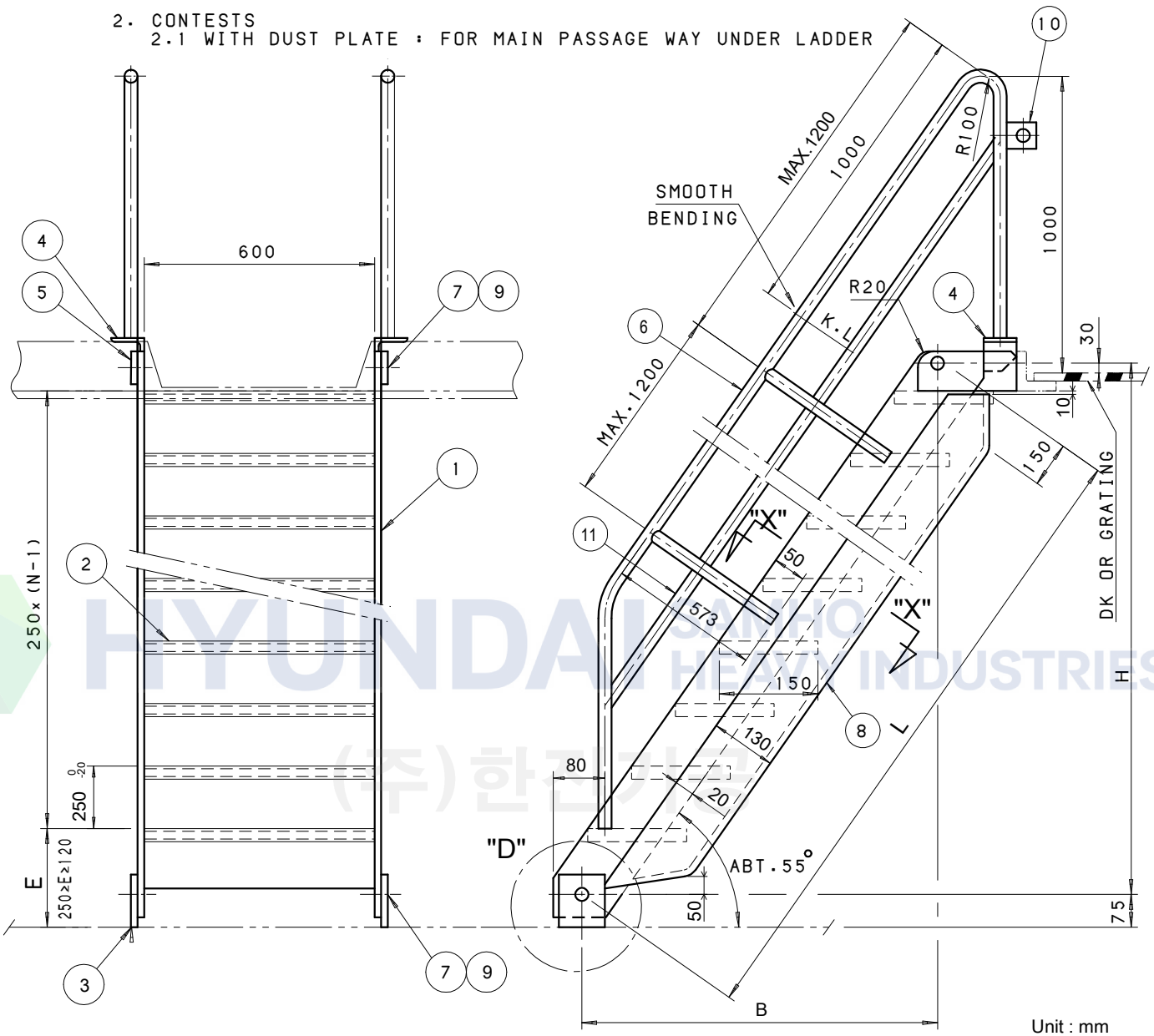
M8170T-TRAF-H21P-52-LIST-R1

SHIP NO.		8170	
HS NO.		D12K-748	1 7
REV. DATE	'02	'02	'16
	11 6	12 29	01 25



INCLINED LADDER
TYPE - "G" (WITH DUST PLATE)

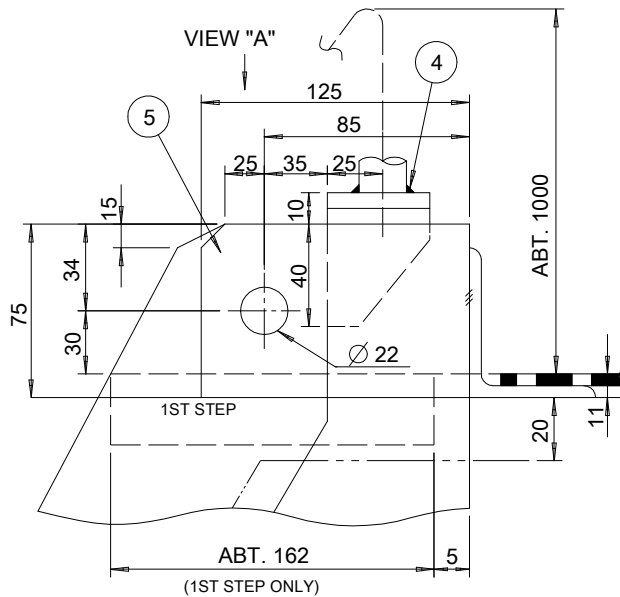
1. SCOPE
THIS STANDARD PROVIDES STEEL LADDER FOR ENGINE ROOM TRAFFIC.
2. CONTESTS
2.1 WITH DUST PLATE : FOR MAIN PASSAGE WAY UNDER LADDER



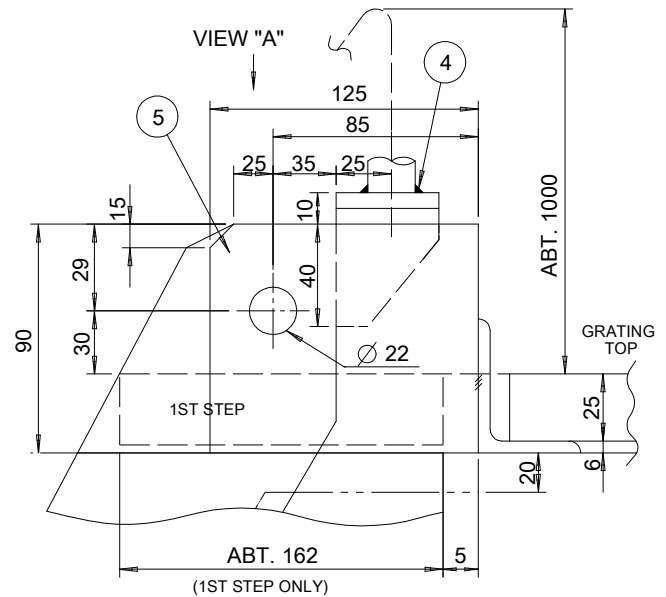
11	MIDDLE RAIL	16 R.B	SS400	2		
10	CONNECTION PIECE	6t	SS400	4		LOOSE SUPPLY
9	SPRING WASHER (GAL' V)	M20	SWRH	4		
8	DUST PLATE	1.6t	SS400	1		
7	BOLT & NUT (GAL' V)	M20X50L	SS400 (GAL' V)	4		
6	HANDRAIL	20A	SPP	2		
5	UPPER LUG	12t	SS400	2		
4	ANGLE	50x50x6t	SS400	2		
3	LOWER LUG	12t	SS400	2		
2	STEP	150	SS400 (GAL' V)	-		
1	SIDE FRAME	100x12t	SS400	2		
NO.	DESCRIPTION	DIMENSION	MATERIAL	Q'TY	HS NO.	REMARK

DETAIL OF INCLINED LADDER

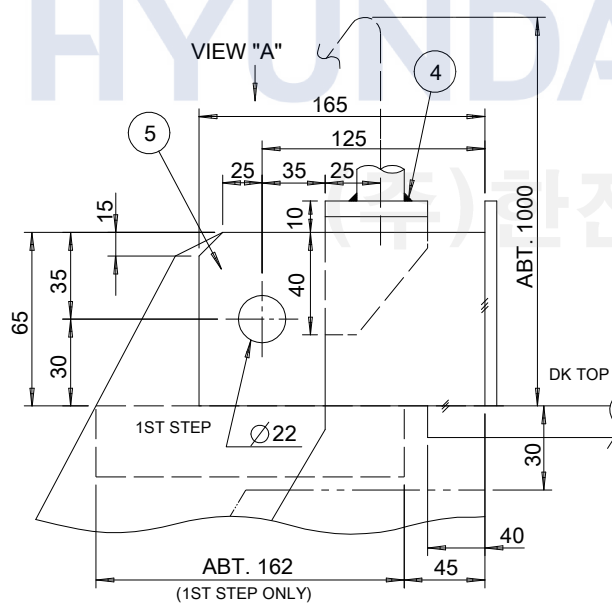
UPPER LUG (CH-TYPE)



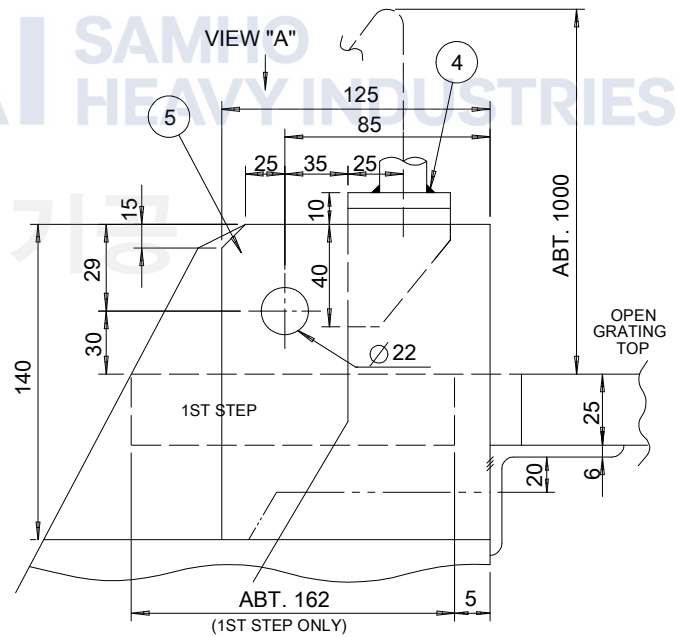
UPPER LUG (OPE-TYPE)



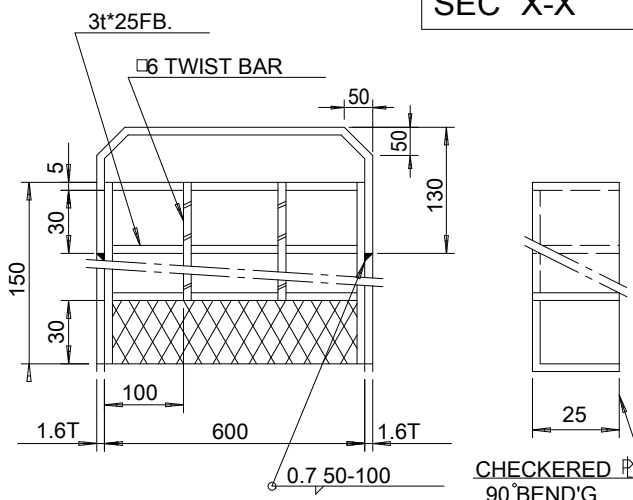
UPPER LUG (DK-TYPE)



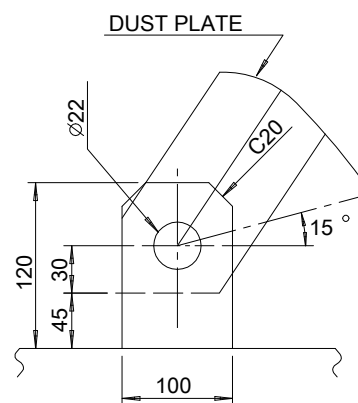
UPPER LUG (OPC-TYPE)



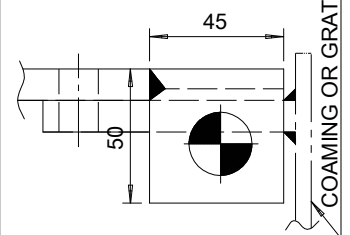
SEC "X-X"



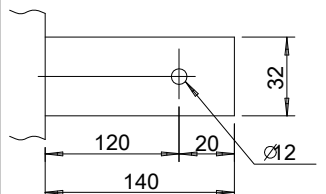
DETAIL OF "D"



VIEW "A"



CONNECTION PIECE



9.

적용부위(선행에서 완설되는 LADDER)
DK를 연결하는 LADDER 중간에
F/FORM이 설치될 경우 DK하부(정규상태)
에 설치되는 LADDER만 적용

SHIP NO.		8170	
HS NO.	8760	57	
REV. DATE	'02	11	6



DETAIL OF INCLINED LADDER

SHIP NO.

8170

DWG NO.

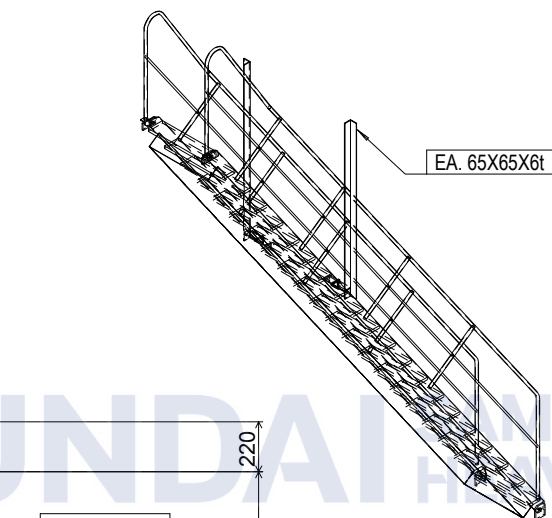
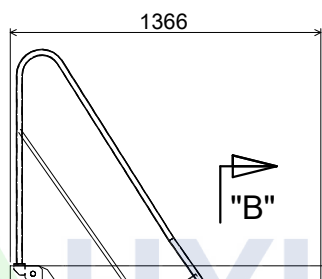
H21P0F30512M

PLAN

H21P-52-IL01

"A"

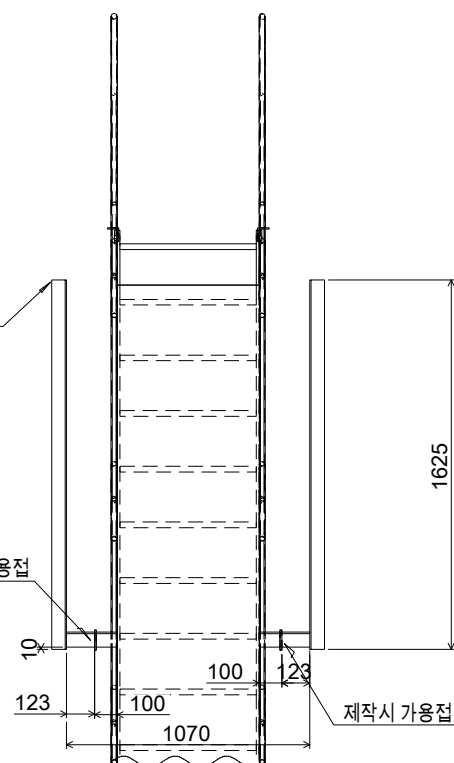
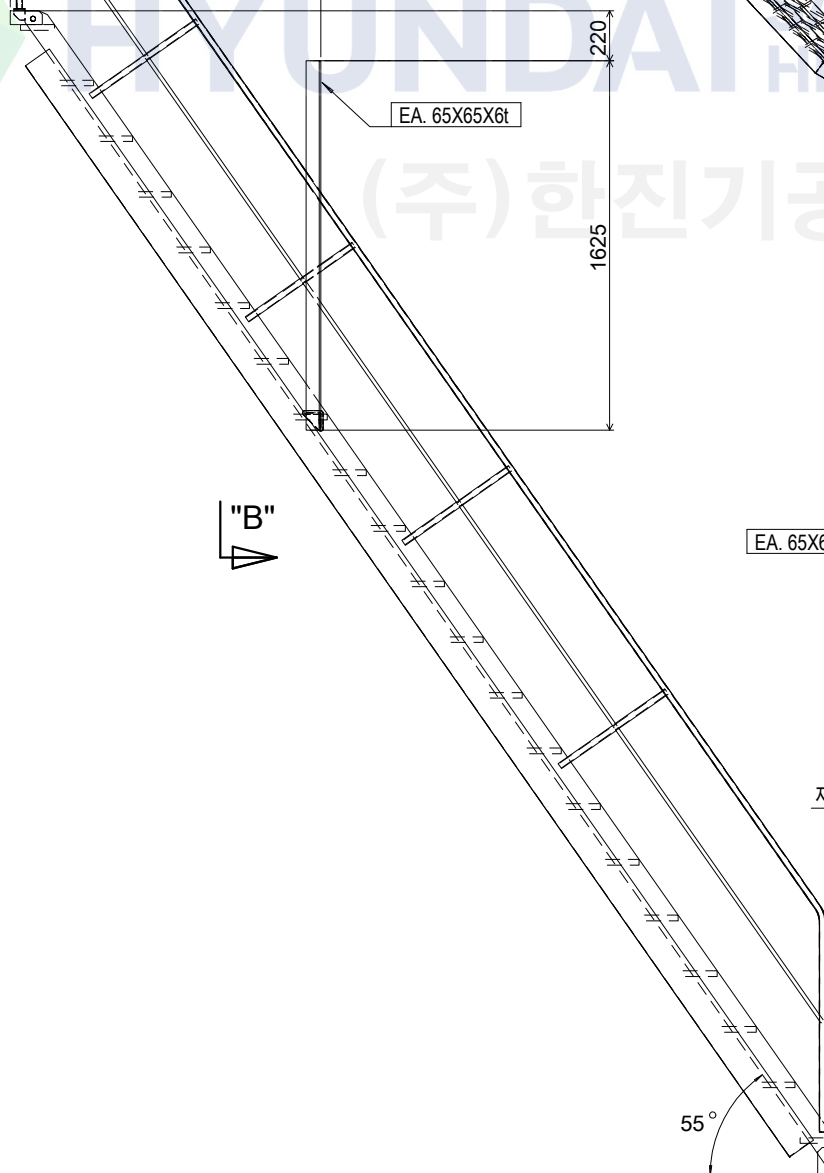
VIEW "A"



"B"

"B"

VIEW "B"- "B"



M8170T-TRAF-H21P-52-IL04



VERTICAL LADDER (VL-A1)

HS NO.

D12K-749

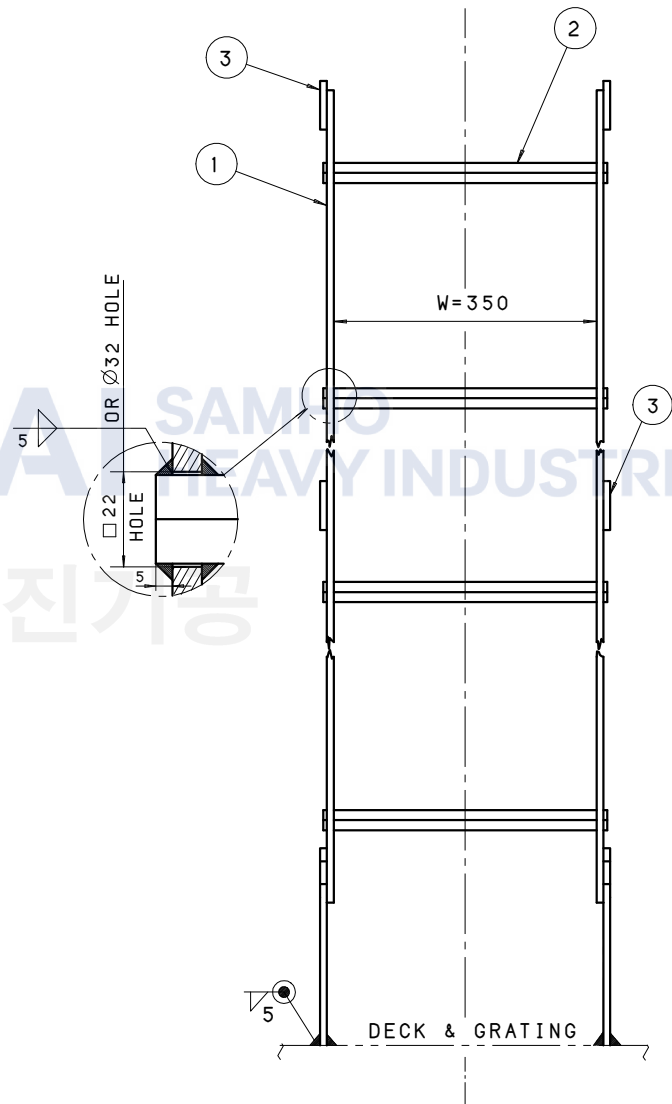
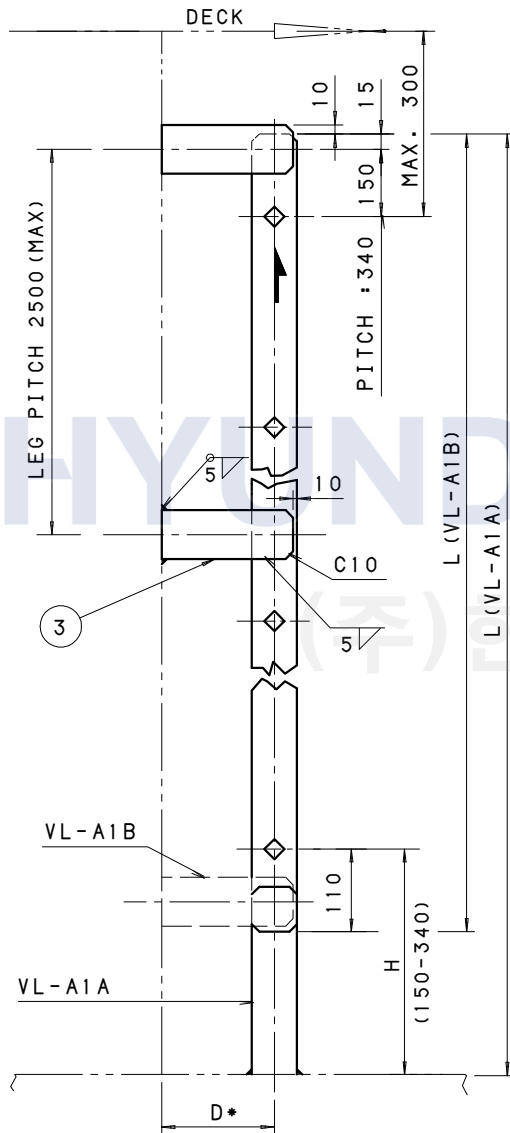
1/5

REV. DATE

'06
11
10'13
12
20'20
05
07

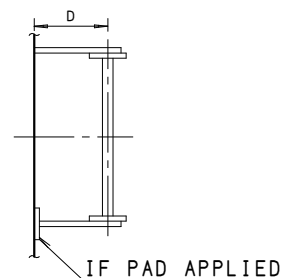
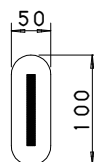
NO.	DESCRIPTION	DIMENSION	MAT'L	Q'TY	WEIGHT (kg)	REMARK
1	SIDE FRAME	65X9t FLAT BAR	SS400	2	4.59/m	PAINTED
2	STEP	22 SQUARE BAR	SS400	-	3.80/m	PAINTED
3	LEG	65X9t FLAT BAR	SS400	-	0.98/EA	PAINTED
4	PAD	10t	SS400	-	0.35/EA	PAINTED

Unit : mm



D* : 180 = FOR INSULATION
: 150 = FOR WALL OR BHD
: 100 = FOR GENERAL

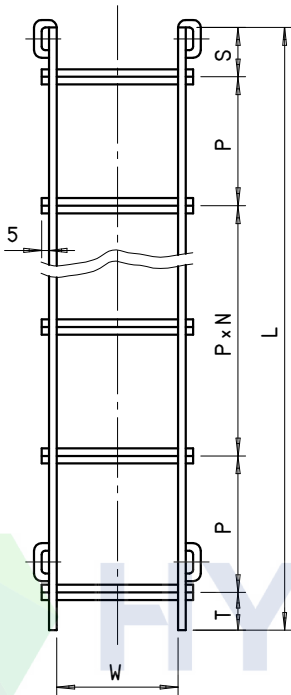
DET. OF PAD
(IF APPLIED)



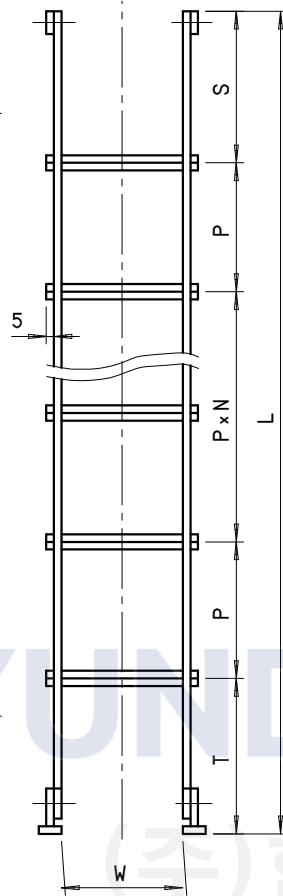


LIST OF VERTICAL LADDER

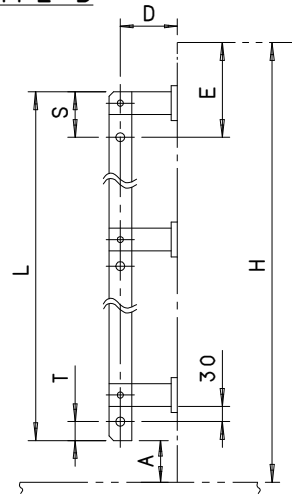
TYPE B, B1



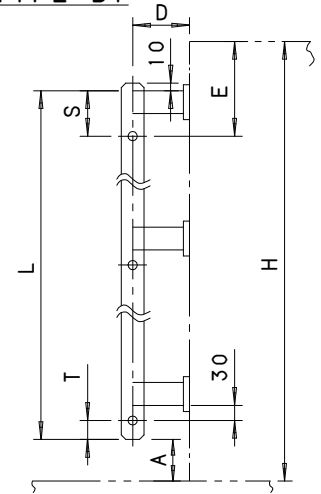
TYPE A, A1



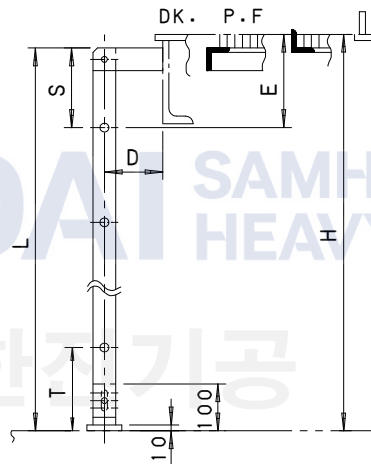
TYPE B



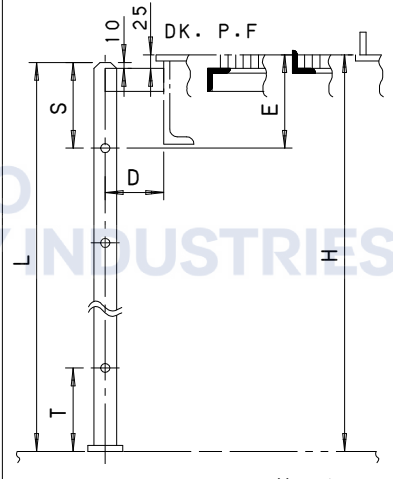
TYPE B1



TYPE A



TYPE A1



Unit:mm

SER NO.	PIECE NO.	TYPE	Q'TY (ST)	LADDER DIMENSION				STEP PITCH P	STEP Q'TY N	LEG LENGTH D	LEG Q'TY O	WEIGHT (kg/ST)	PAINT'G SYMBOL	REFERENCE			
				W	L	S	T							H	E	A	LOCATION
1	H21P-52-VL01	A	1	350	2387	155	192	340	7	200	4	31	"EK"				PAD 적용할 것.
2	H21S-52-VL01	A	1	350	2387	155	192	340	7	200	4	31	"EK"				PAD 적용할 것.
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

NOTE

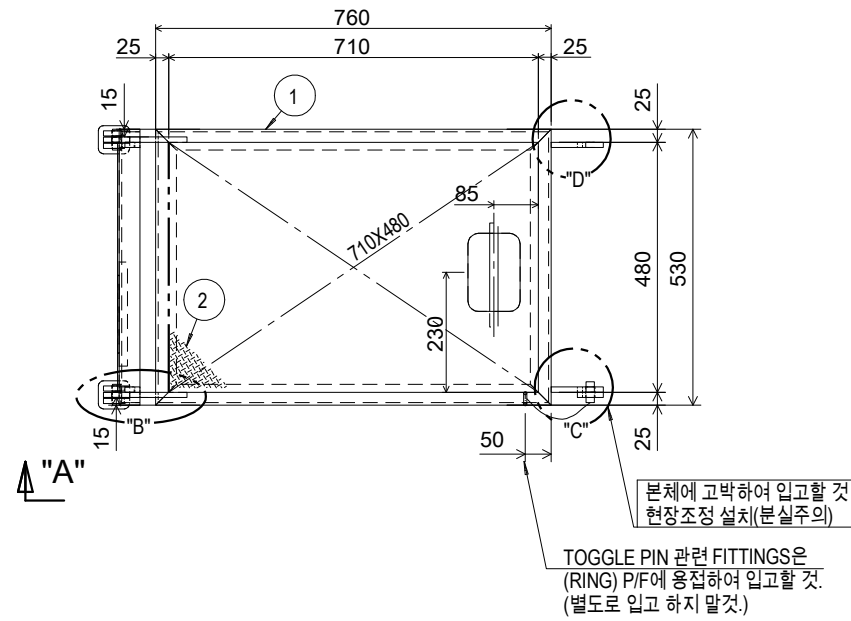


TITLE

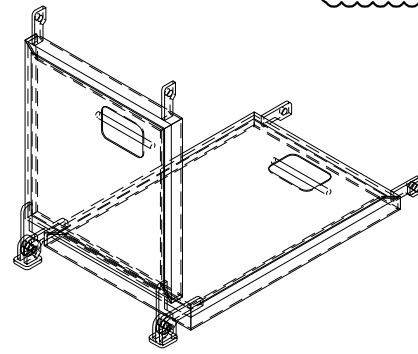
GRATING PIECE DRAWING

※ GRAT'G SIDE FRAME은
E.A 40X40X5T임.

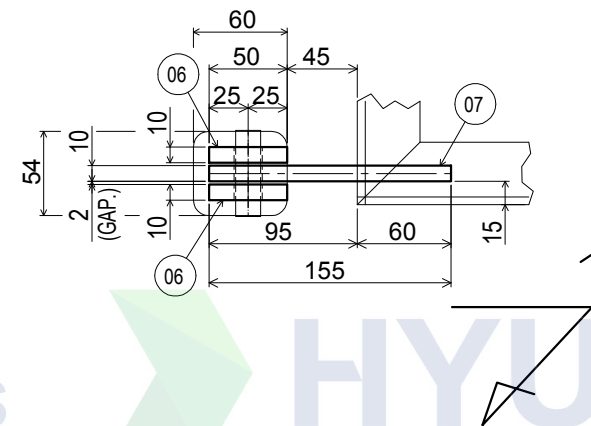
PLAN



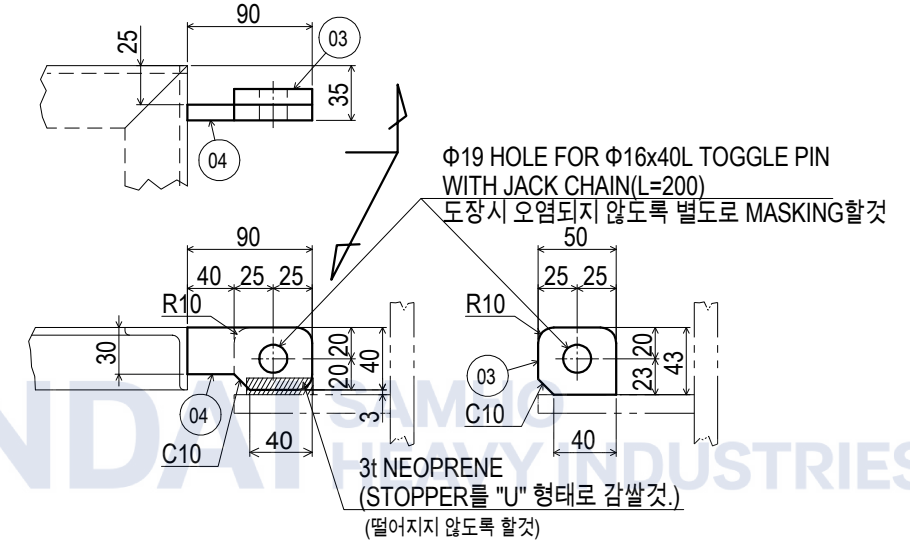
*VOID SPACE설치



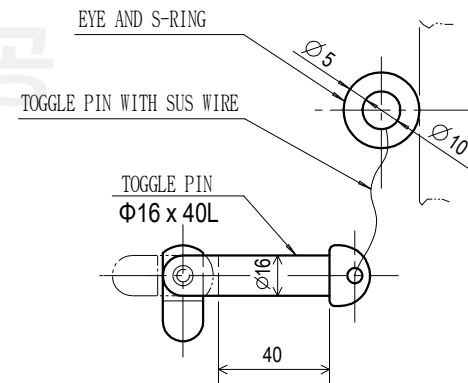
DET. OF "B"



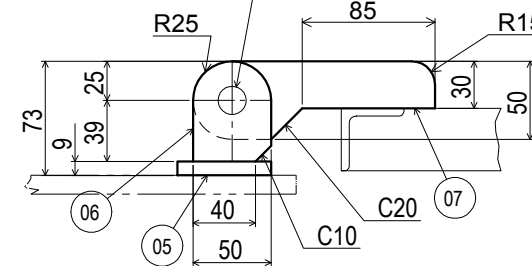
DET. OF "C"



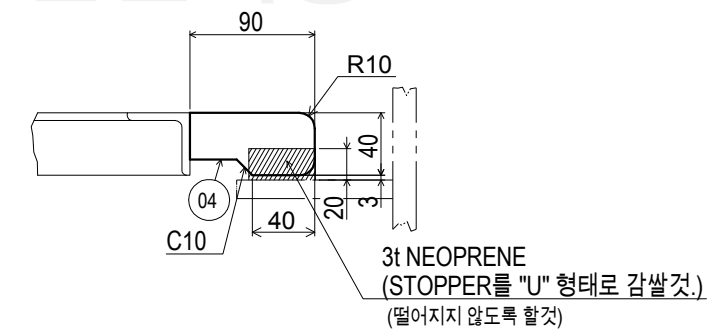
DET. OF TOGGLE PIN



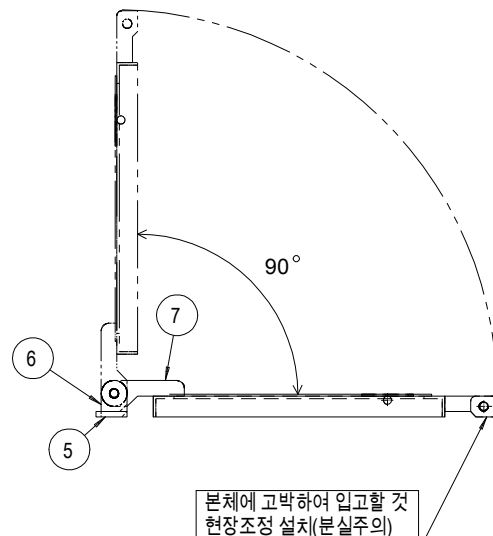
Φ19 HOLE FOR M16x55L
BOLT & NUT WITH SPLIT PIN



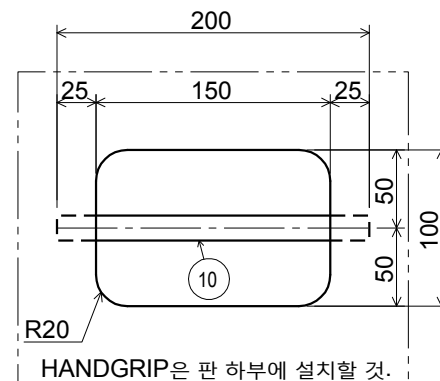
DET. OF "D" SEC.



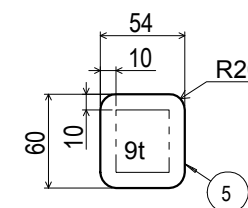
VIEW "A"



DET. OF HANDGRIP



DET. OF PAD



11	RUBBER PACKING	3t	NEOPR.	1	-	1	-
10	HAND GRIP	Φ16 R.B	SS400	1	-	1	-
9	TOGGLE PIN WITH JACK CHAIN	Φ16 x 40L	SUS304	1	-	1	필히 P/F과 같이 입고할 것.
8	BOLT & NUT WITH S/PIN	M16 x 55L	SUS304	2	-	1	-
7	HINGE	10t PLATE	SS400	2	-	1	-
6	HINGE	10t PLATE	SS400	4	-	1	-
5	PAD	9t PLATE	L.T.S	1	-	1	사급
4	SUPPORT	10t PLATE	SS400	2	-	1	-
3	STOPPER	9t PLATE	L.T.S	1	-	1	사급
2	CHECKERED PLATE	4.5t	SS400	1	-	8	-
1	EQUAL ANGLE	40X40X5t	SS400	1	-	8	-
NO. (품번)	DESCRIPTION (품명)	SPECIFICATION (사양)	MAT'L (재질)	Q'TY (수량)	LENGTH (길이)	WEIGHT (중량kg)	REMARK (비고)



TITLE

GRATING PIECE DRAWING

도면 번호

H21P0M30512M

BLOCK

H21P

부 서 명

기장설계부

작 성 자

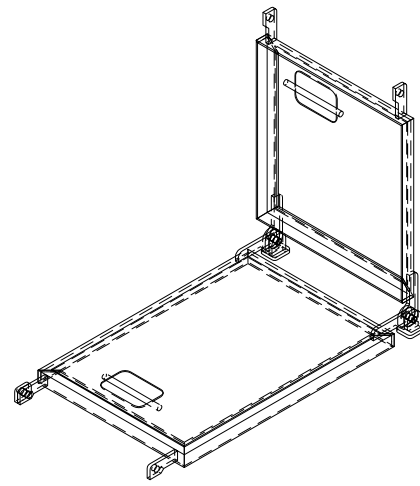
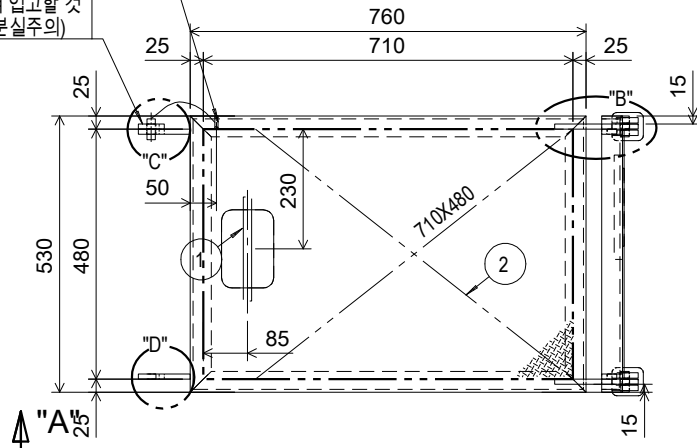
2992 / 김태영

※ GRAT'G SIDE FRAME은
E.A 40X40X5T임.

TOGGLE PIN 관련 FITTINGS은
(RING) P/F에 용접하여 입고할 것.
(별도로 입고 하지 말것.)

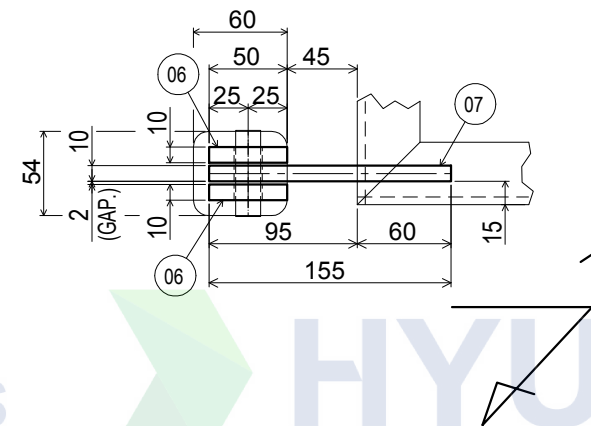
본체에 고박하여 입고할 것
현장조정 설치(본실주의)

PLAN

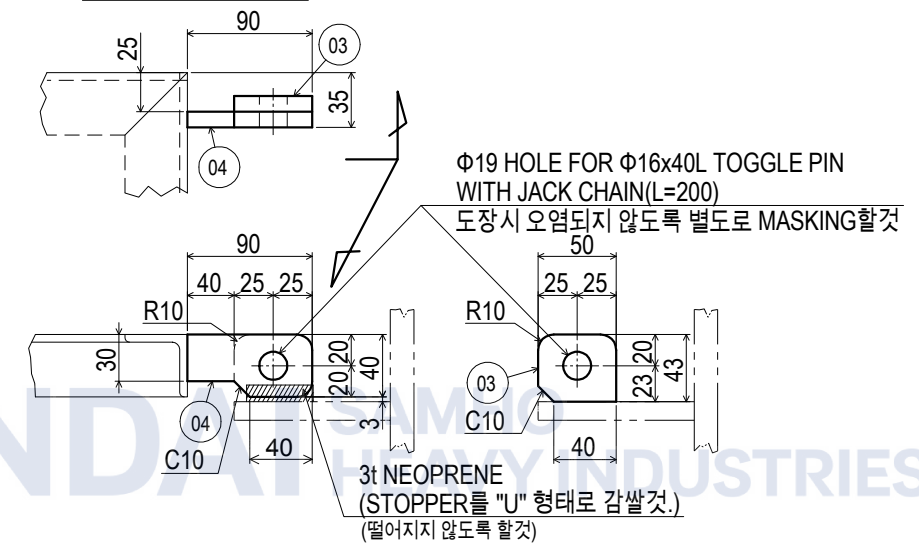


*VOID SPACE설치

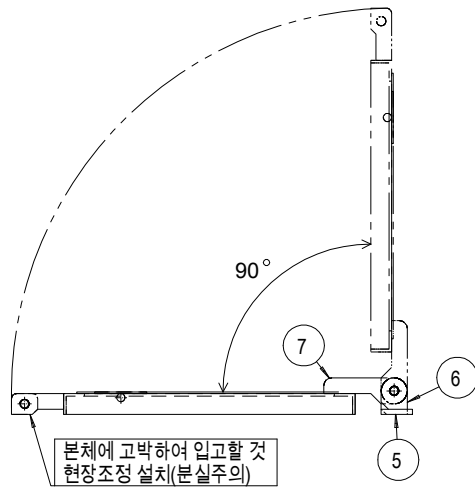
DET. OF "B"



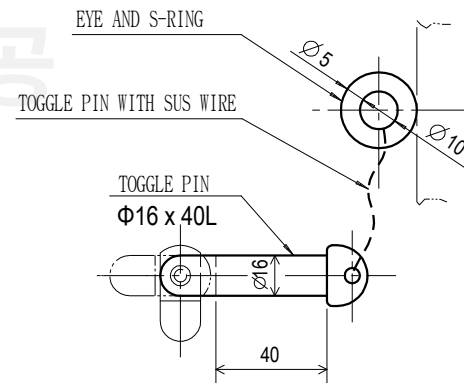
DET. OF "C"



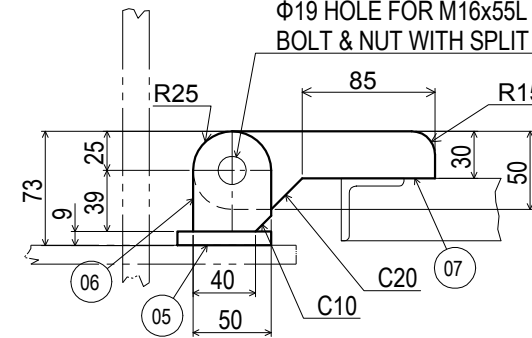
VIEW "A"



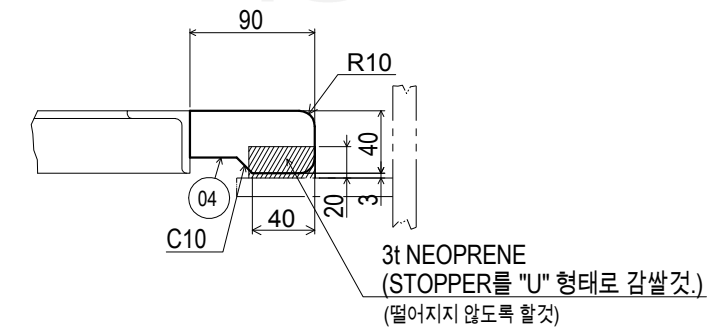
DET. OF TOGGLE PIN



Φ19 HOLE FOR M16x55L
BOLT & NUT WITH SPLIT PIN



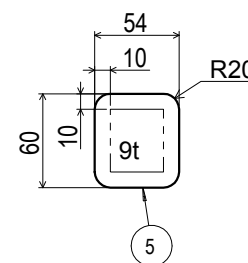
DET. OF "D" SEC.



DET. OF HANDGRIP



DET. OF PAD



11	RUBBER PACKING	3t	NEOPR.	2	-	1	-
10	HAND GRIP	Φ16 R.B	SS400	1	-	1	-
9	TOGGLE PIN WITH JACK CHAIN	Φ16 x 40L	SUS304	1	-	1	필히 P/F과 같이 입고할 것.
8	BOLT & NUT WITH S/PIN	M16 x 55L	SUS304	2	-	1	-
7	HINGE	10t PLATE	SS400	2	-	1	-
6	HINGE	10t PLATE	SS400	4	-	1	-
5	PAD	9t PLATE	L.T.S	1	-	1	사급
4	SUPPORT	10t PLATE	SS400	2	-	1	-
3	STOPPER	9t PLATE	L.T.S	1	-	1	사급
2	CHECKERED PLATE	4.5t	SS400	1	-	8	-
1	EQUAL ANGLE	40X40X5t	SS400	1	-	8	-
NO. (품번)	DESCRIPTION (품명)	SPECIFICATION (사양)	MAT'L (재질)	Q'TY (수량)	LENGTH (길이)	WEIGHT (중량kg)	REMARK (비고)