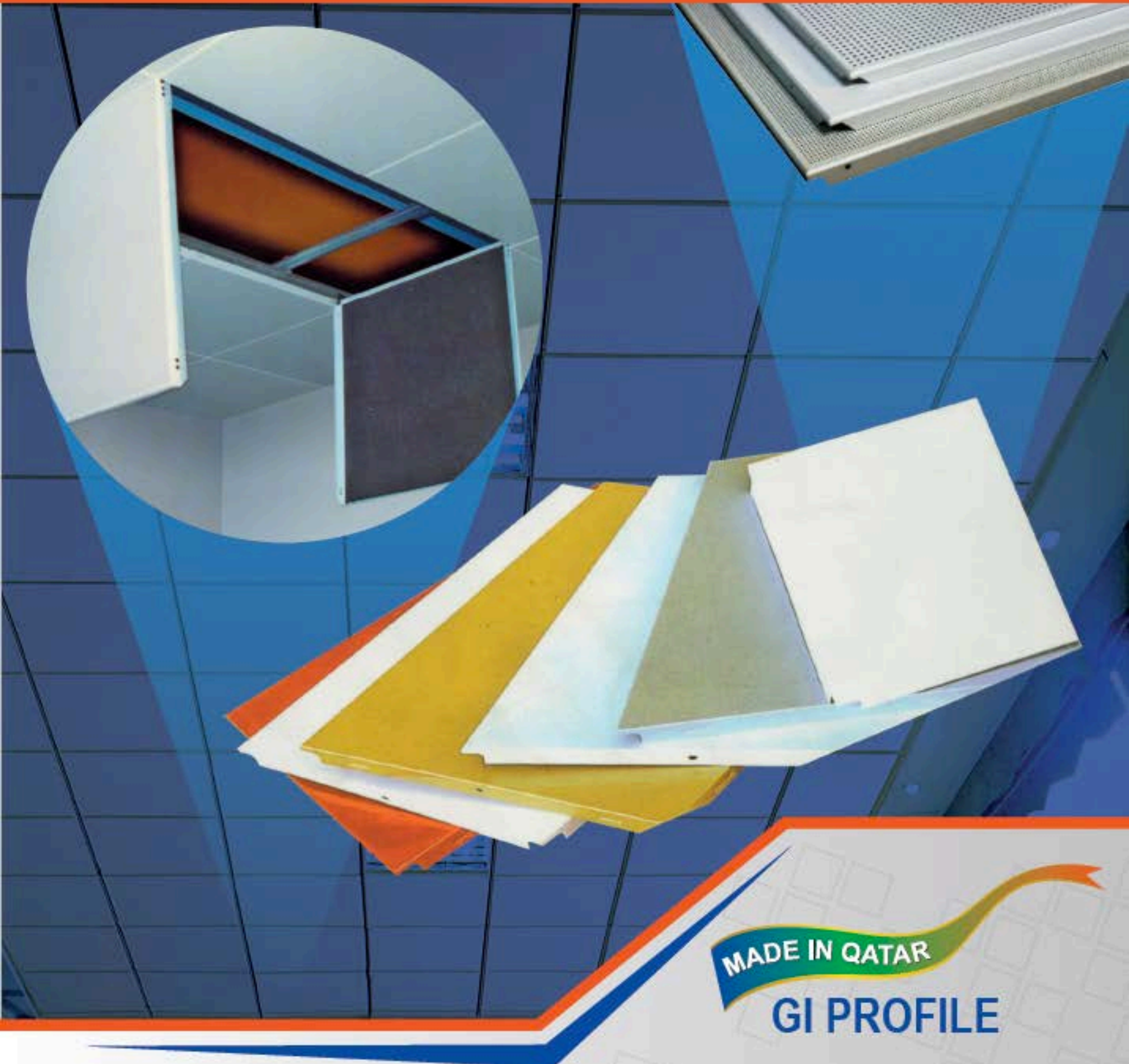




DECOTECH METAL PROFILE FACTORY



MADE IN QATAR

GI PROFILE

The Right Choice for Ceiling & Partitions



DECOTECH METAL PROFILE FACTORY

Local Manufacturer of High International Standard Ceiling and Partition Product

MADE IN QATAR



DECOTECH METAL PROFILE FACTORY

We are pleased to introduce ourselves, **DecoTech** Metal Profile Factory, As a leading Manufacturer, Supplier, of a comprehensive range of building products that includes Expanded metal products, Partition and ceiling profiles and cable tray management systems, Under our brand name DecoTech.

DecoTech Metal Profile Factory is a part of a **Qasr Al Andalus Company** with over 20 years of experience in the region in various sectors. The company has satisfied its domestic clients with various quality products and services since its inception.

With a fully-equipped facility extending over 4500 sqm, in New Small and Medium Industrial State at Salwa road Qatar, the factory is equipped with state of the art machinery for manufacturing its products. We differentiate ourselves by offering a complete solution for our clients (Design, Fabrication, & Supply). We can ensure timely project completion, end-to-end quality management and budget control. Our employees trained in the importance of value engineering, thus providing solutions, not just products.

Our team qualified, experienced engineers and technicians can design and build as per client specifications. We are consistently working on technical innovations in order to improve the characteristics of our products, and monitor our manufacturing processes to continuous optimize it to ensure our clients the highest levels of product quality and workmanship, including on-time completion.

Our mission is to create value for our customers by providing high quality service and products, while maintaining a high level of health and safety standards and at the same time ensuring a healthy environment. Our sense of social responsibility combined with moral business ethics will surely surpass customer expectations, which is of paramount importance to position Technics globally as the best.

We Assure,

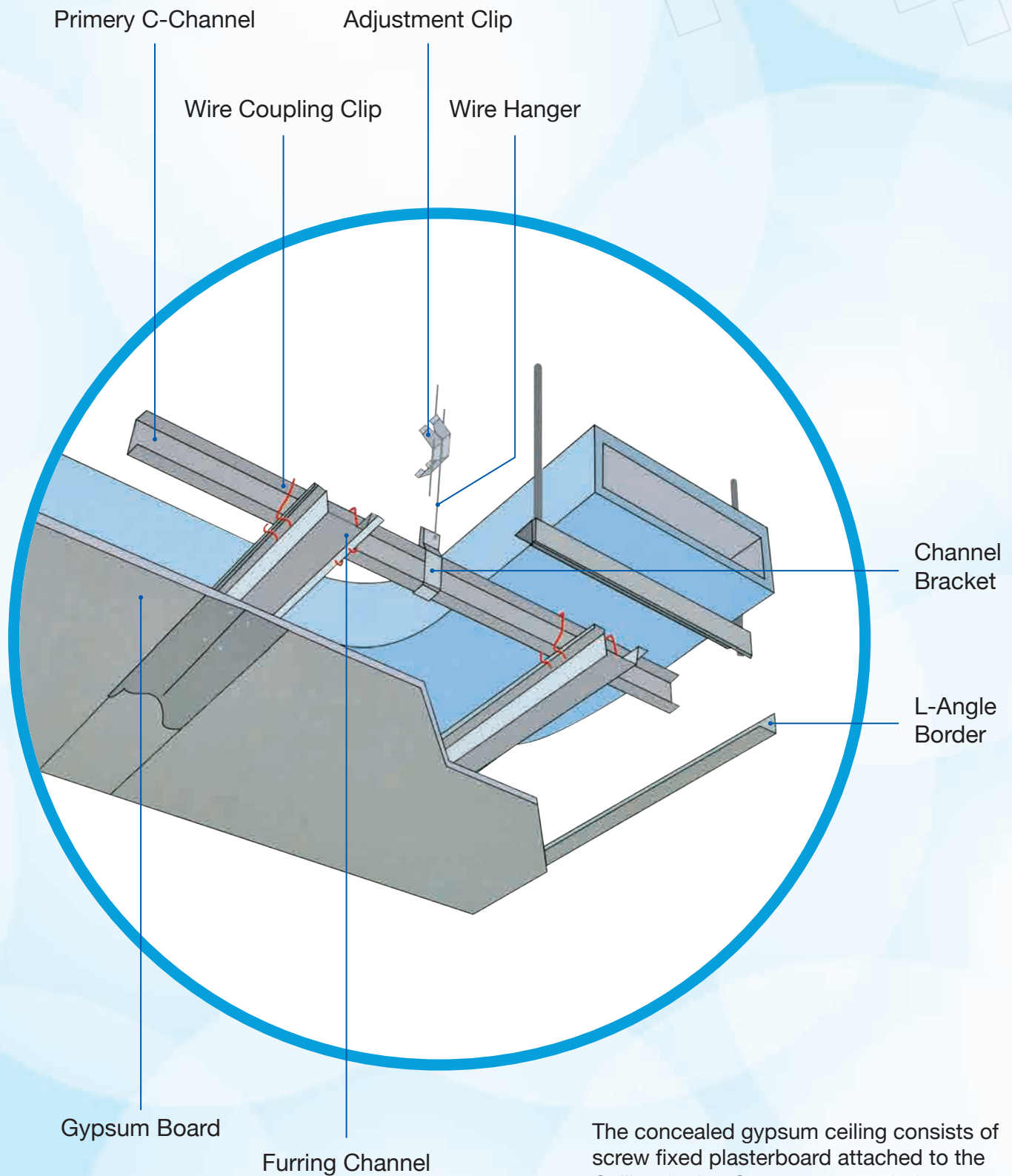
- Quality Products
- Competitive Prices
- Delivery on time and in full
- Own Branding Products
- European Standard Approval





DECOTECH METAL
PROFILE FACTORY

DECOTECH FURRING SYSTEM



The concealed gypsum ceiling consists of screw fixed plasterboard attached to the Ceiling furring System suspended from joists or a concrete ceiling.

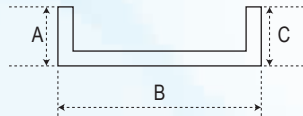
COMPONENT & ACCESSORIES



DECOTECH METAL
PROFILE FACTORY

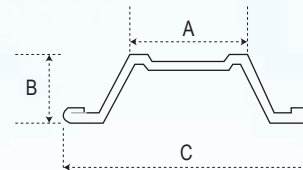
The Ceiling Furring System is manufactured from corrosion resistant galvanized steel in various thickness. Furring channels are widely used in ceiling systems as well as wall installations. Main channels are mainly used as grid systems for suspended ceilings. Sections are available in standard length of 3000mm or special length are available upon request.

MAIN CHANNEL



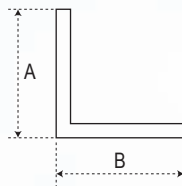
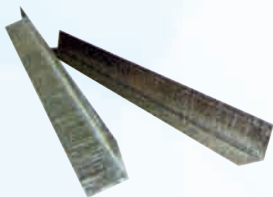
Ref.	Dimensions (mm)			Thickness (mm)
	A	B	C	
MC38	12	38	12	0.40-1

FURRING CHANNEL



Ref.	Dimensions (mm)			Thickness (mm)
	A	B	C	
FC35	35	22	64	0.40-1

WALL ANGLE



Ref.	Dimensions (mm)		Thickness (mm)
	A	B	
WA25	25	25	0.40-1

PREFORMED WIRE CLIP



REF.C 38

Galvanised mild steel wire
Packed 500 per box

ADJUSTABLE SPRING



REF.C 50

Spring tell 0.5mm thick
Packed 250 per box

CHANNEL BRACKET



REF.C 12

Galvanized mild steel
Packed 1,000 per box

SPECIAL WEIGHT & LENGTH TO ORDER TECHNICAL SPECIFICATIONS

Manufactured to : BS 2994 : 1976
: ASTM C 645-99
Galvanised Steel to : BS EN 10142:1991 of Fe P02G quality
coating type :Z275 (Hot-dip galvanised)
: ASTM A 366/A 366M-A 653/A 653M



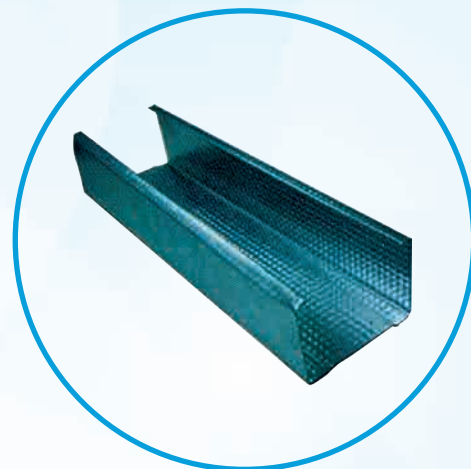
DRY-WALL PARTITIONING SYSTEM

DECOTECH METAL
PROFILE FACTORY

The Dry-wall Partitioning system is manufactured from corrosion resistant galvanised steel in standard sizes and stock lengths. Custom sizes and length are available on request. DECOTECH product line offer variety of gauges to economically meet your design requirements.

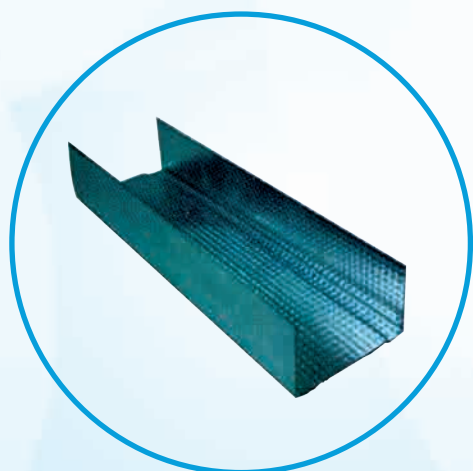
Studs

Ref.	Dimensions (mm)			Minimum Thickness (mm)	Minimum Thickness (mm)	Material
	A	B	C			
S50	50	36	34	0.4	1.5	GI
S65	65	36	34	0.4	1.5	GI
S70	70	36	34	0.4	1.5	GI
S75	75	36	34	0.4	1.5	GI
S90	90	36	34	0.4	1.5	GI
S98	98	36	34	0.4	1.5	GI
S140	140	36	34	0.4	1.5	GI
S150	150	36	34	0.4	1.5	GI



Track (Runners)

Ref.	Dimensions (mm)			Minimum Thickness (mm)	Minimum Thickness (mm)	Material
	A	B	C			
T52	52	30	28	0.4	1.5	GI
T67	67	30	28	0.4	1.5	GI
T72	72	30	28	0.4	1.5	GI
T77	77	30	28	0.4	1.5	GI
T92	92	30	28	0.4	1.5	GI
T100	100	30	28	0.4	1.5	GI
T142	142	30	28	0.4	1.5	GI
T152	152	30	28	0.4	1.5	GI

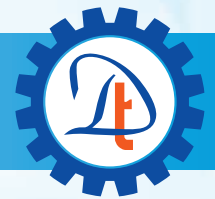


SPECIAL WEIGHT & LENGTH TO ORDER TECHNICAL SPECIFICATIONS

Manufactured to : BS 5234 : 1975 - Internal Non Load Bearing Partitioning.
: BS 2994 : 1976 - Cold Rolled Steel Sections.
: BS 7364 : 1990 - Galvanised Steel Studs & Channels.
: ASTM C 645 - 99- Standard Specification for Nonstructural Steel Framing Members.

Galvanised Steel to : BS BN 10142 : 1991 of Fe P02G quality coating type: Z275
: ASTM A 366/A 366M-A 653/A 653M

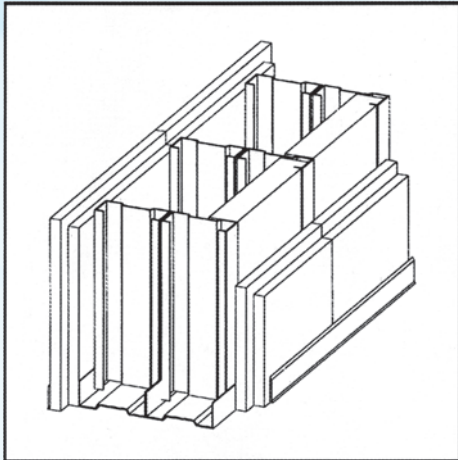
DRY-WALL PARTITIONING SYSTEM



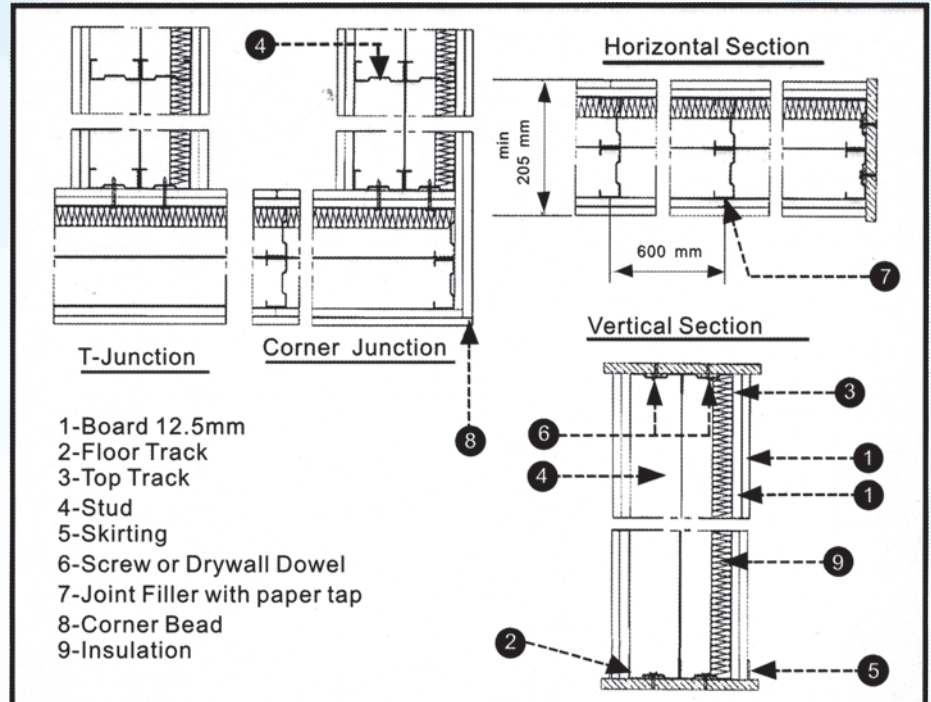
DECOTECH METAL
PROFILE FACTORY

CONSTRUCTION DETAILS

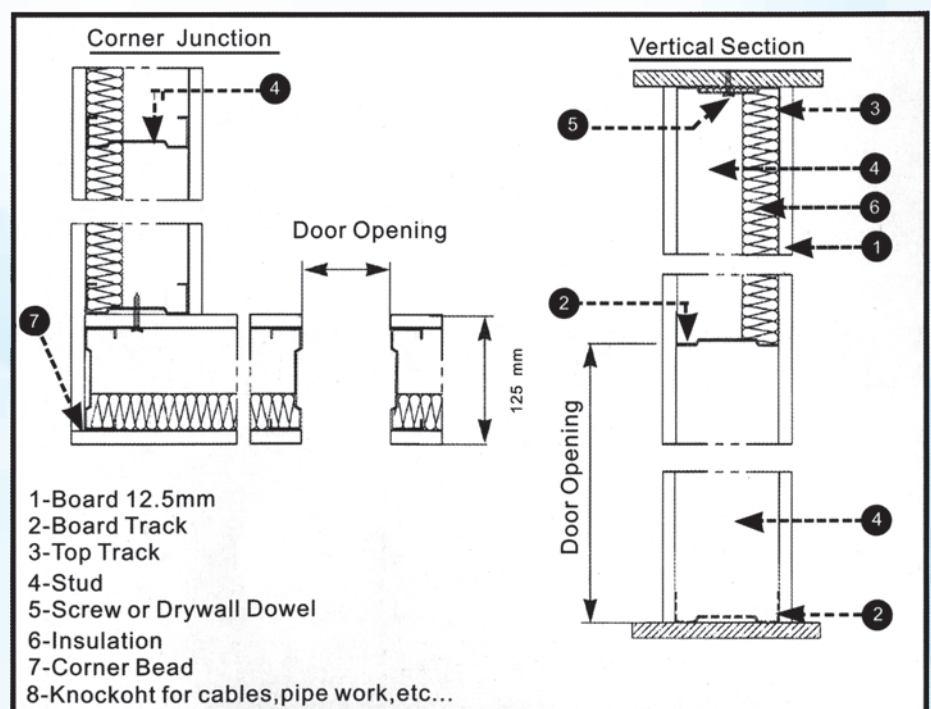
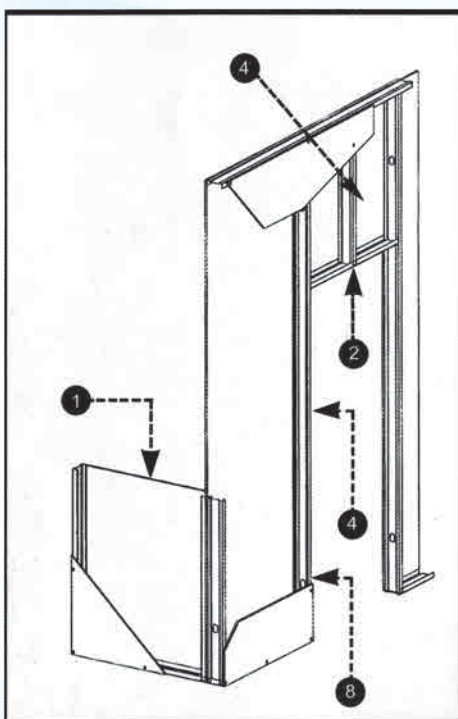
Double Stud Wall / Double Layer



Recommended Application		Max Height (mm)	Weight (kg/m ²)
Stud Track	50	4500	50.00
Stud Track	52		
Stud Track	75	6000	55.00
Stud Track	77		



Door Installation



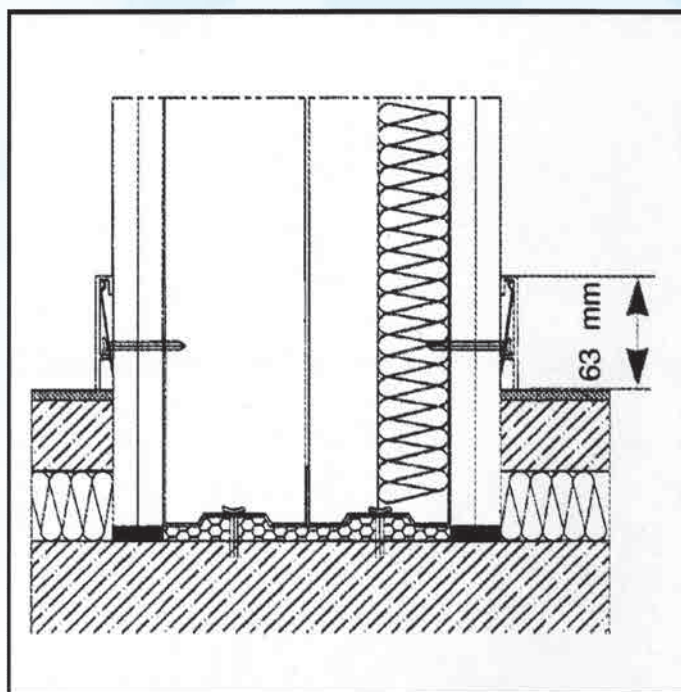
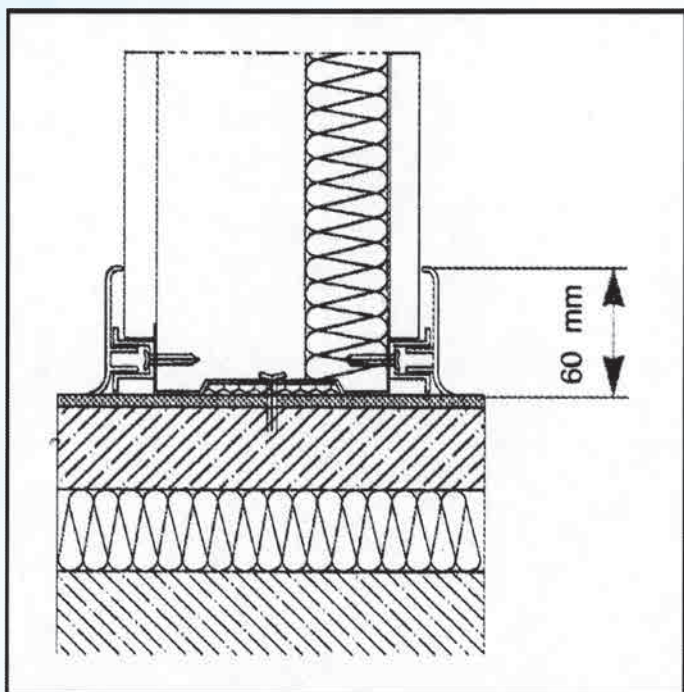


DECOTECH METAL
PROFILE FACTORY

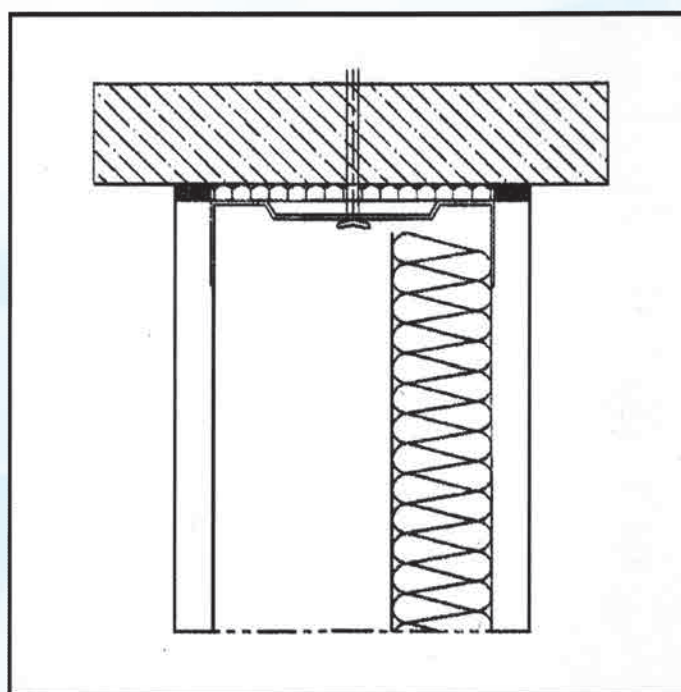
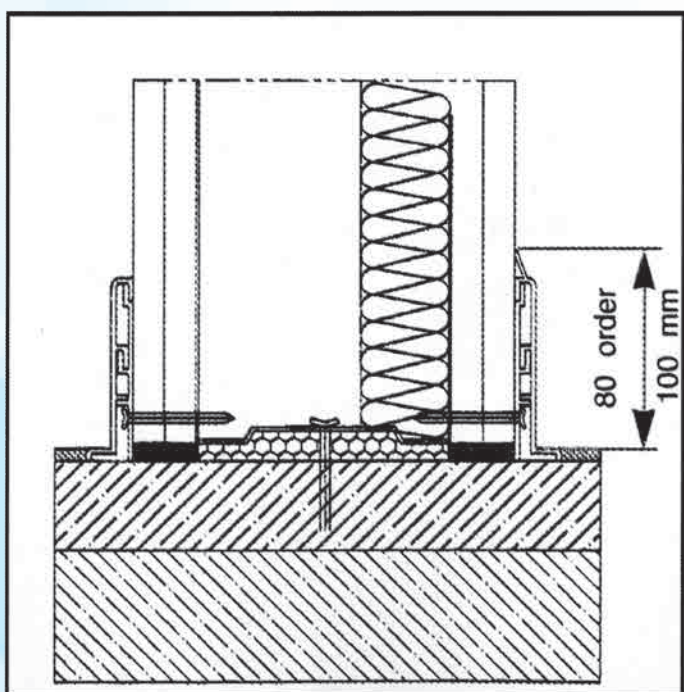
DRY-WALL PARTITIONING SYSTEM

RECOMMENDED INSTALATION DETAILS

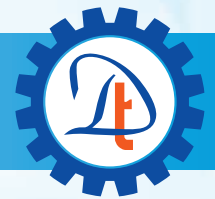
Floor



Floor / Seiling



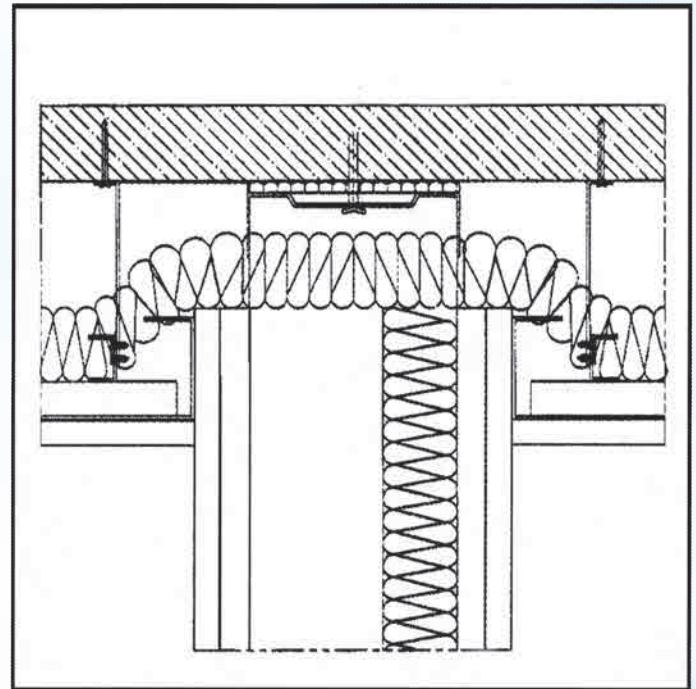
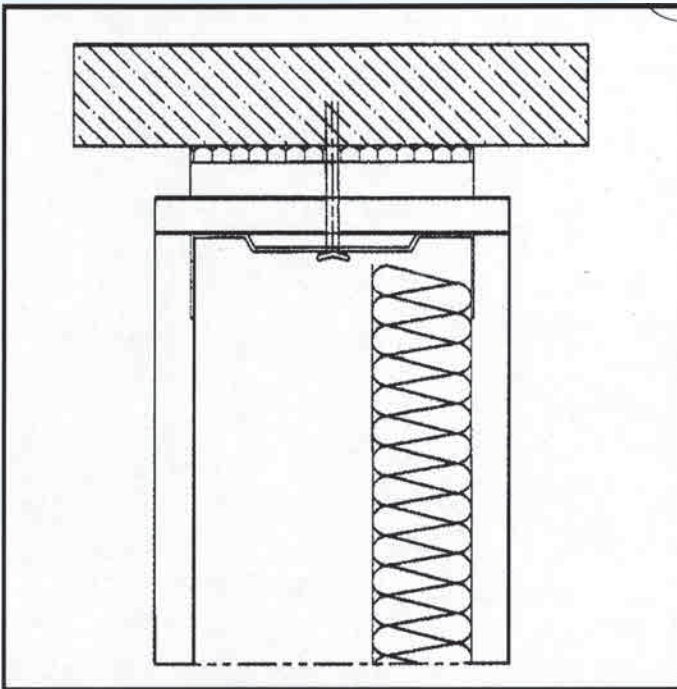
DRY-WALL PARTITIONING SYSTEM



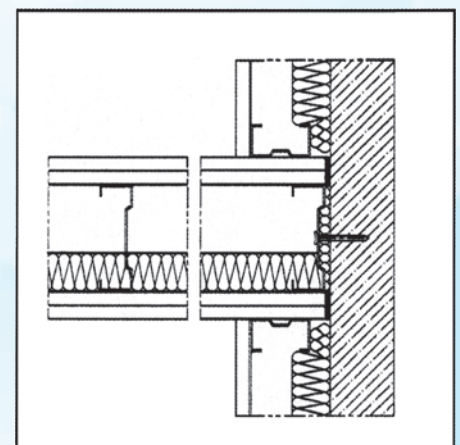
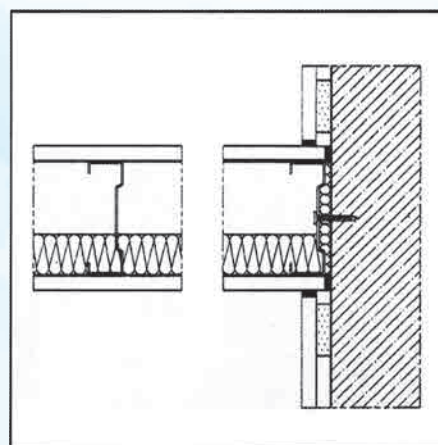
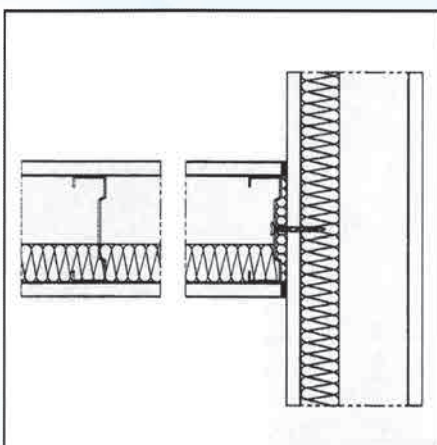
DECOTECH METAL
PROFILE FACTORY

RECOMMENDED INSTALATION DETAILS

Ceiling



Wall

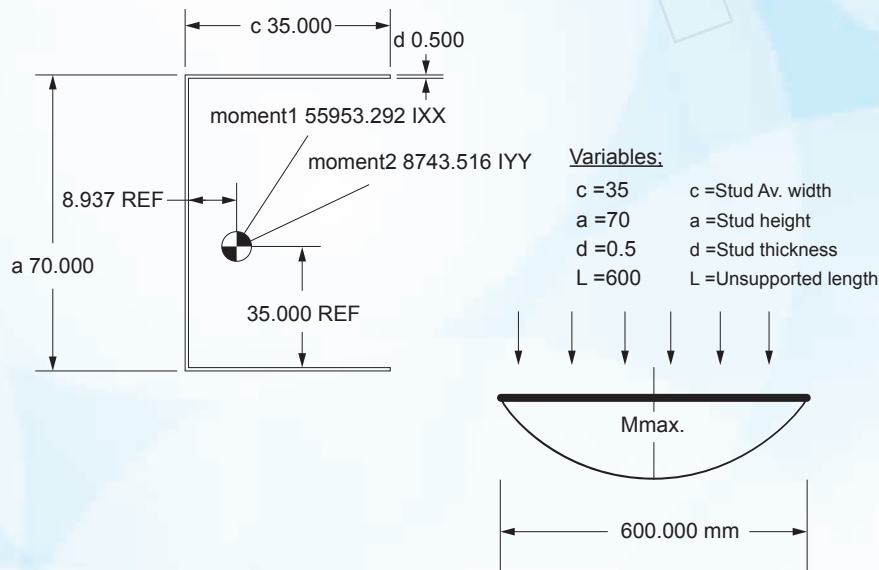




DECOTECH METAL
PROFILE FACTORY

LOAD CALCULATION

Deco (0.5mm) STUD FOR DRY LINED PARTITIONS Galv. $P_y=250.000 \text{ N/mm}^2$



Moment Capacity $M_c = (I_{yy}/y_x)P_y = (8743.516/35.000) \times 250.000 = 62453.686 \text{ Nmm}$

From the Equation $M_{max}/M_c < 1$

$M_{max} = q \times l^2 / 8$

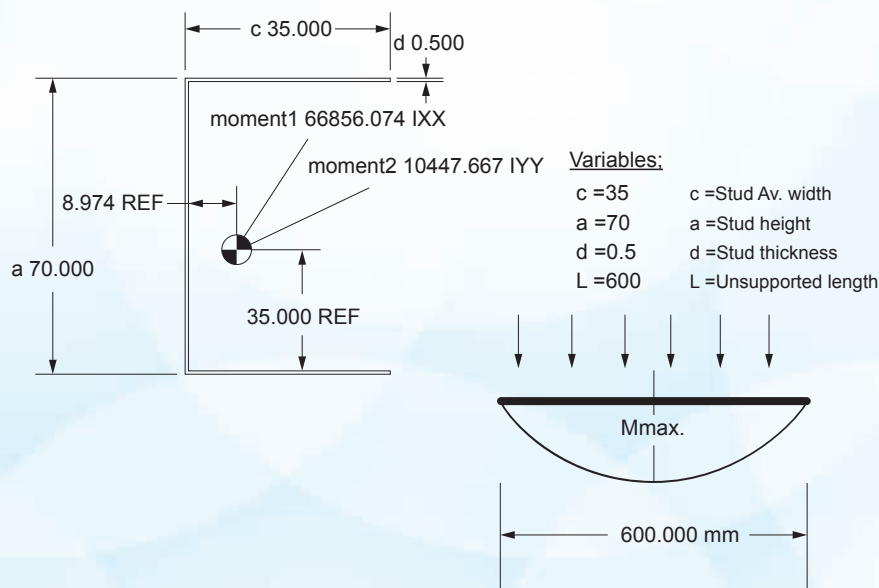
$Max = q \times 600.000^2 / 8$ {Where $M_{max} = M_c / 1.4 = 44609.776 \text{ Nmm}$ }

$q = 44609.776 \times 8 / 600.000^2$

$q = 0.991 \text{ N/mm} = 99.133 \text{ kg/m}$

$q_2 = 70.809 \text{ kg/m}$ (Max. Load with Safety factor: 1.4)

Deco (0.6mm) STUD FOR DRY LINED PARTITIONS Galv. $P_y=250.000 \text{ N/mm}^2$



Moment Capacity $M_c = (I_{yy}/y_x)P_y = (10447.667/35.000) \times 250.000 = 74626.193 \text{ Nmm}$

From the equation $M_{max}/M_c < 1$

$M_{max} = q \times l^2 / 8$

$Max = q \times 600.000^2 / 8$ {Where $M_{max} = M_c / 1.4 = 53304.423 \text{ Nmm}$ }

$q = 53304.423 \times 8 / 600.000^2$

$q = 1.185 \text{ N/mm} = 118.454 \text{ kg/m}$

$q_2 = 84.610 \text{ kg/m}$ (Max. Load with safety factor: 1.4)

TECHNICAL CHARACTERISTICS



LIGHT REFLECTANCE: LR= 70 - 90% (ASTM E 1477)

CORROSION RESISTANCE: Salt spray tested for 1000 hours corrosion protection (ASTM B 117-73)



ACOUSTIC PROPERTY: NRC = 0.7 - 0.9 (ASTM C423-01) CLASS C
[perforated tile with acoustic fleece]

FIRE RESISTANCE: Class A Product (ASTM E84)



ANTI-MICROBIAL: Hygienic coating can be provided upon request, having an excellent anti-bacterial properties (JIS Z 2801:200)

HUMIDITY RESISTANCE: HR= 95%



CLEANABILITY: Washable by applying any household mild detergent like soap or window cleaner on the ceiling • surface then wiping it with a clean soft cloth.

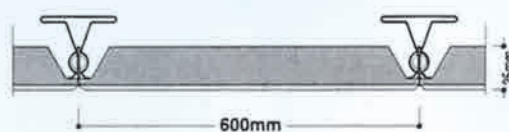
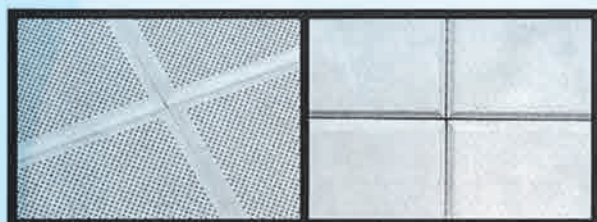
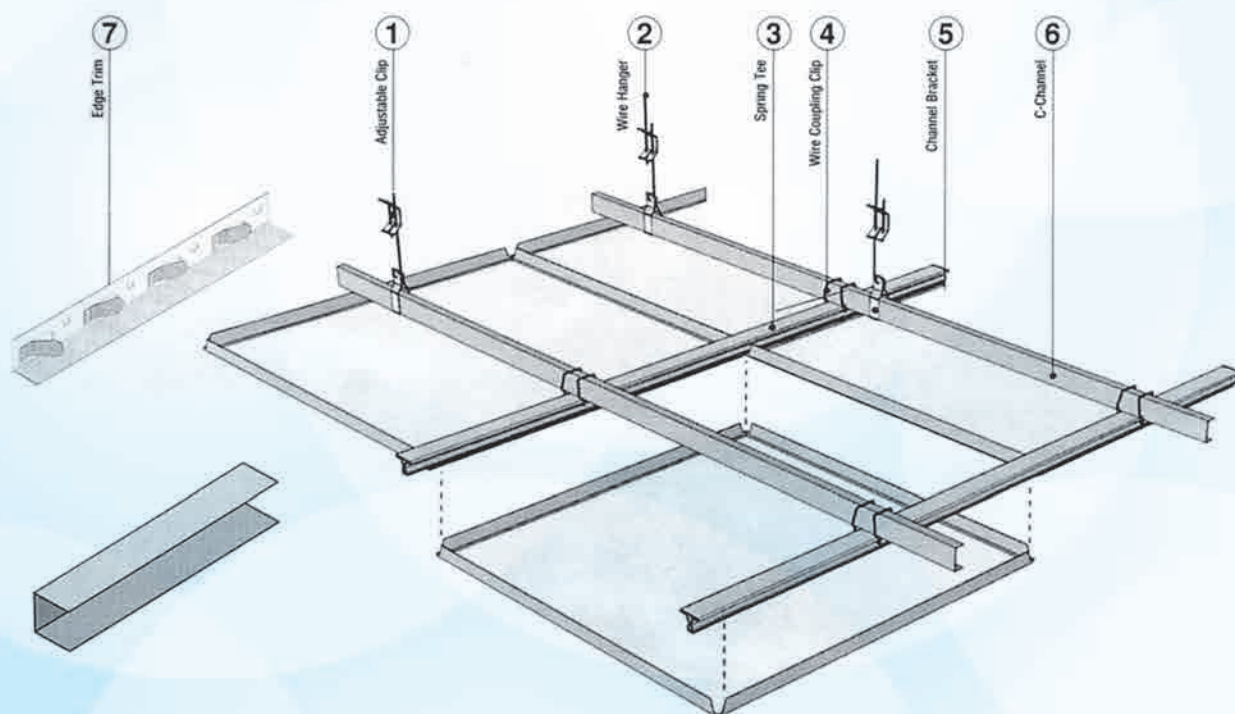
GREEN BUILDING MATERIAL: Fully recyclable and environmentally friendly.



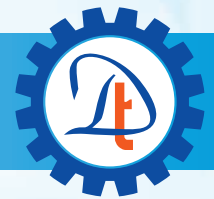


DECOTECH METAL
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DECOTECH CLIP IN TILE SYSTEM



MATERIAL SPECIFICATION CLIP-IN TILE CEILING



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PROFILE FACTORY

DECOTECH metal ceiling tiles can be produced in aluminium and steel in different thickness upon request as well as high mirror tiles chrome or gold colour.

600 X 600mm CLIP-IN TILE

Tiles are made of aluminium, 0.60mm, 0.70mm thick, or 0.5mm thick galvanised mild steel with electro-static factory applied powder coated polyester paint finish.

ADJUSTABLE CLIP (1)

To adjust the ceiling level.
Made of tempered steel.

WIRE HANGER (2)

4mm galvanised wire.

SPRING TEE (3)

To support the panels. Length 3m. Made of 0.5mm galvanised steel.

WIRE COUPLING CLIP (4)

Galvanised tempered wires to tight the C-channel to the spring tee.

CHANNEL BRACKET (5)

To hold the C-channel.
Made of galvanised steel.

C-CHANNEL (6)

38mm X 3000mm length.
Made of 0.6mm galvanised steel.

EDGE TRIM (7)

Profile L shape with tab or U shape profile.

DIMENSIONS

Clip-In 5mm Bevel Edge.
"Tile-options"

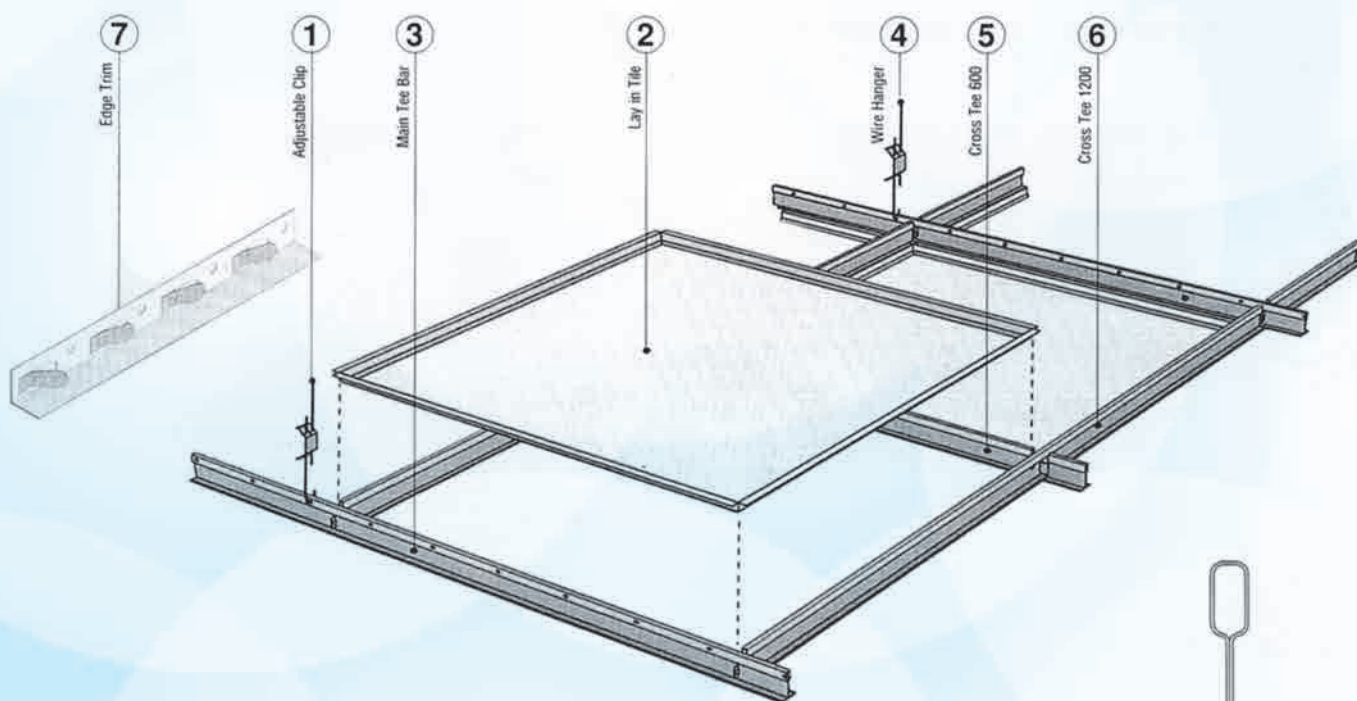
Module in mm Gauge:	Steel	Alu	Alu
600 X 600	0.5	0.6	0.7
300 X 300	0.5	0.6	0.7





DECOTECH METAL
PROFILE FACTORY

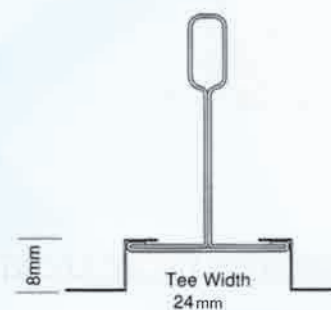
DECOTECH LAY-IN TILE SYSTEM



DIMENSIONS

Lay-In Tiles 24/8 : 24mm Grid
8mm Reveal

Module in mm	Gauge: steel	Alu	Alu
600 X 600	0.5	0.6	0.7



DECOTECH LAY-IN TILE SYSTEM



DECOTECH METAL
PROFILE FACTORY

UPWARD ACCESSIBILITY

Because each tile has flanges that simply rest on the T-Grid profiles, the access to the plenum is achieved by lifting the tile up into the area above the ceiling.

ACOUSTIC PERFORMANCE

In order to improve interior sound control, the Deco Tile and Plank programme can be perforated in a range of standard patterns with open areas between 16% and 60%. These patterns are framed with a plain border of 10 mm in order to assure maximum flatness and product stability. As a standard feature, perforated tiles can be supplied with a sound absorbing non-woven tissue glued into the tile for enhanced acoustical performance.

SOUND ABSORPTION

CURVE 1

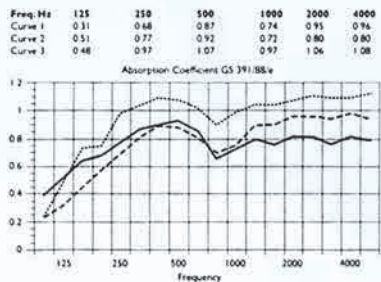
2.5 mm Ø perforated tiles, 20mm thick mineral wool pad with a density of approx. 20 kg/m, plenum depth 200mm.

CURVE 2

2.5 mm Ø perforated tiles, non-woven acoustic felt, plenum depth 200 mm.

CURVE 3

1.5 mm Ø perforated tiles, 40 mm thick mineral wool pad with a density of approx. 20kg/m, plenum depth 200mm.



All curves tested according to DIN 52215, BS 3638 and ISO 354.

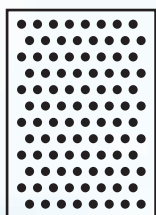
TYPICALS SOUND ATTENUATION

Normalised Level Difference						
Frequency (Hz)	125	250	500	1000	2000	3150
Microperforated Tile + Acoustipanel	19.5	26.6	32.5	39.3	48.2	48.9dB
Microperforated Tile + Mineral Wool 100 kg/m ³ (40 mm thick)	15.9	21.4	28.7	39.3	56.2	62.5dB
Microperforated Tile + Acoustipanel + Backing Plate	25.0	31.8	36.7	44.8	50.8	52.8dB

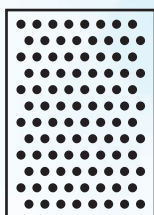
SHORT SYSTEM DESCRIPTION

Decotech Lay-in tiles are designed to be installed in conventional T-Grid systems with a T-Bar sizes off 15 mm, 24mm. By pushing the tile up-wards, all types provide easy access to the plenum without the use of special tools. The exposed T-Grid of Decotech Lay-in tiles emphasises the modular design pattern.

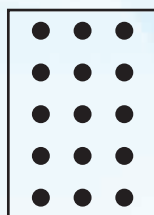
STANDARD PERFORATION



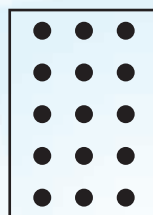
Ø 1.5 mm



Ø 1.8 mm



Ø 2.5 mm



Ø 3 mm

MATERIALS SPECIFICATIONS

- BASE MATERIAL

Decotech Lay-in tiles are available in electrolytic-galvanized steel, phosphatised and chemically treated in accordance with high industrial standards (DIN 154 I / BS 1449, part I : 1938/TAIM standards). Zinc coating is double sided and 2.5 microns.

Aluminium Al 1100 H44 (according to DIN 1783) or stainless steel alternatives are also possible, when required.

- COATING

The tough and durable polyester coated finish in a minimal thickness of 20 microns, is electrostatically applied ensuring uniform coating thickness, absolute adhesion, maximum resistance to abrasion.

- COLOUR RANGE

The standard colour is white. Any other RAL, BS, NCS colour is available on request.

- TOLERANCES

As a member of the Technical Association of Industrial Metal Ceiling Manufacturers (TAIM), Decotech complies with tolerance criteria as specified in chapter 4 of the TAIM Quality standards for metal.

- FIRE BEHAVIOUR

Suspended Decotech metal ceilings are classified incombustible, CLASS A product and will therefore not contribute to possible fires.

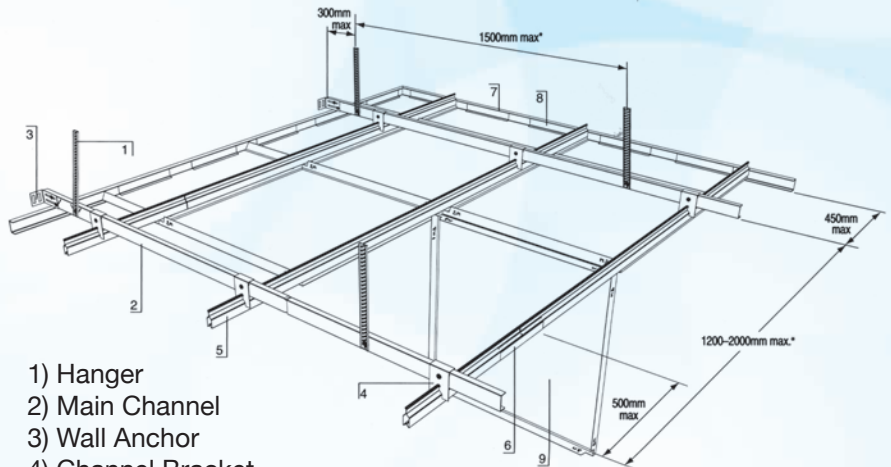
When ceilings however need to protect the structural integrity of a building, Decotech ceilings offer a wide range of practical solutions with regards to fire resistance and fire stability. Further information is available on request.



DECOTECH HINGE DOWN SYSTEM

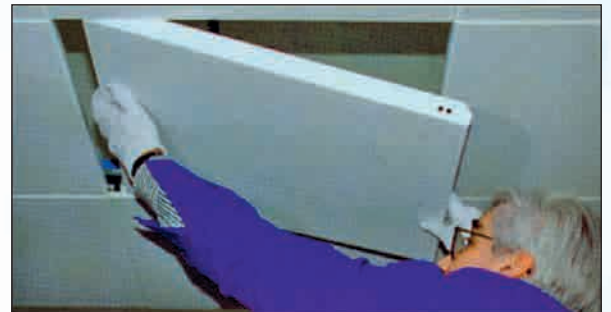
DECOTECH METAL
PROFILE FACTORY

DECOTECH Hinge Down System can be used in the areas where frequent access to the ceiling void is needed. The range of highly versatile clip-in metal ceiling tile offer hinge down access through out as standard.



- 1) Hanger
- 2) Main Channel
- 3) Wall Anchor
- 4) Channel Bracket
- 5) Decotech Omega Bar
- 6) Bar Joint
- 7) EdgeTrim
- 8) Hinge Down Line
- 9) Hinge Down Tile

Section Drawing

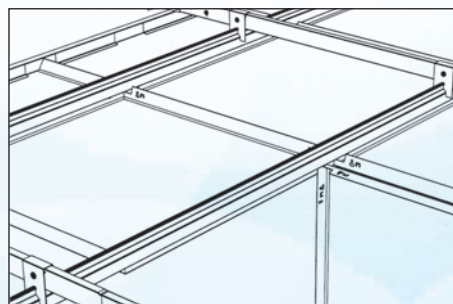


Hinge and Slide Facility



DECOTECH Hinge Down System allows every full tile to pivot and slide along the grid system. The hinge and slide feature facilitates easy access to large areas of the ceiling void for maintenance; tiles are retained within the ceiling grid avoiding damage and eliminating the need for storage.

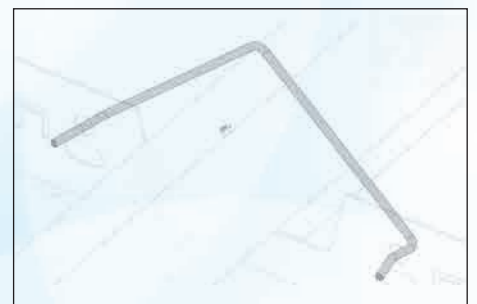
Wide-Spanning Omega Bar



The DECOTECH Omega Bar has a maximum spanning ability of 2000mm. The wide spanning bar requires 25% less primary channels, top fixings and brackets, saving installation time and materials.

Suspension centres should be reduced when using high performing dB panels due to the additional weight or where loads are applied to the system.

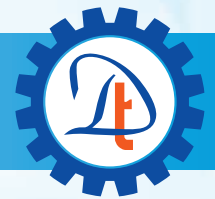
Security Considerations



In areas where it is necessary to restrict access to the ceiling void, We offers a security clips that holds the tiles into the supporting grid. This is ideal for airports and other security driven environments, including schools and lavatories.

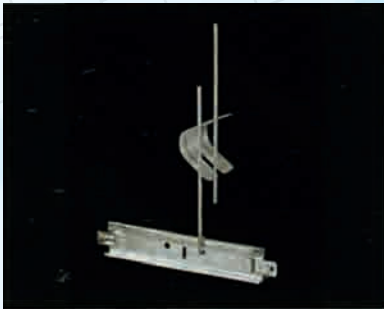
Tiles without security clips can be removed from the ceiling plane by means of an easy access tool.

T24 TEE GRID SUSPENSION SYSTEM



DECOTECH METAL
PROFILE FACTORY

ILLUSTRATION OF INSTALLATION

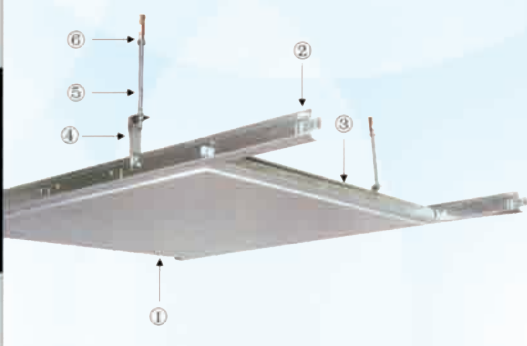
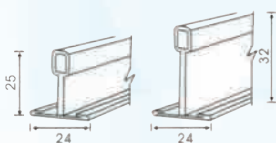


- 1) Main grid
- 2) Cross grid

- 3) Hanger for T-grid
- 4) Lay in panel / Gypsum board / Mineral board



- 1) Lay in panel
- 2) Main T-grid
- 3) Cross T-grid
- 4) Hanger A
- 5) Hanger bar



- 1) Lay in panel
- 2) Main T-grid
- 3) Cross T-grid
- 4) Hanger B
- 5) Bolt
- 6) Expansion screw

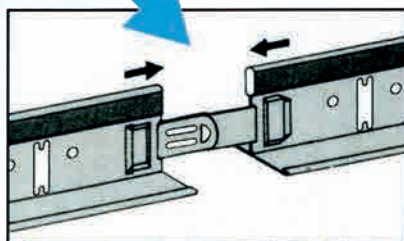
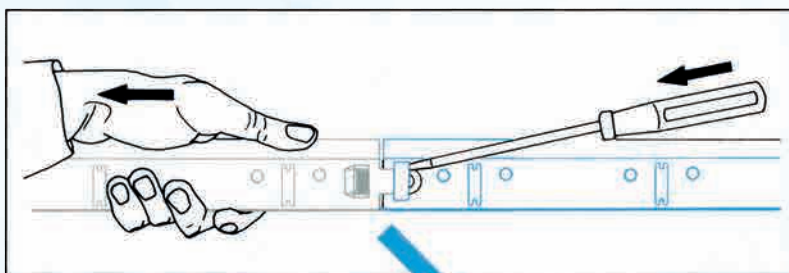


DECOTECH METAL
PROFILE FACTORY

DECOTECH SUSPENSION GRIDS

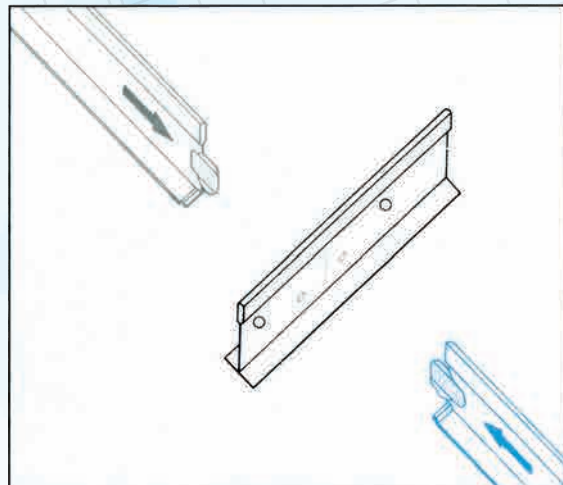
PRODUCTS DESCRIPTION

Our ceiling suspension grids are double web cold-rolled sections, manufactured from hot-dipped galvanized steel, conforms to ASTM 653A. The tee section is with pre-painted capped. It is given to ensure that the system is manufactured to a very high quality level. All our grids has a 24mm table and the main runner is slotted for cross tees at 150mm centers, to give maximum flexibility in the ceiling lay out.



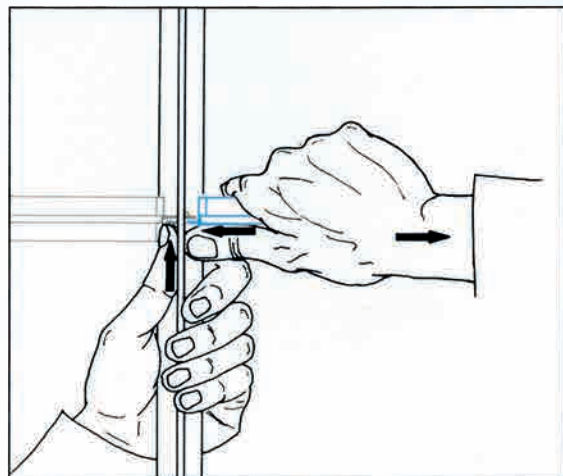
Main Tee Disassembly

The disassembly must be done by a screwdriver with a slim tip.



Assembly

Each tee grids must be fitted always in the left position (Grey color) of the slot. Hear the sound " Click " !

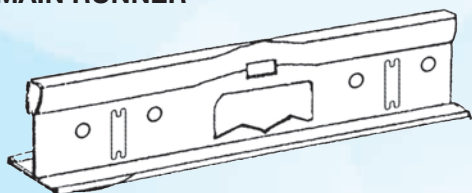


Disassembly

Need no tools!

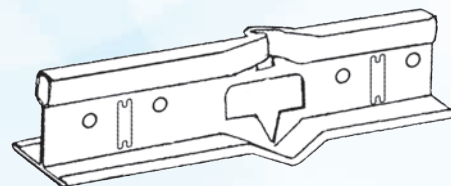
Push, through the left thumb. Then the tee's edge and simultaneously we pull the tee with our right palm.

FIRE EXPANSION JOINT WITHIN EACH LENGTH OF MAIN RUNNER



Before Fire

EFFECT AFTER EXPOSURE TO FIRE CONDITIONS



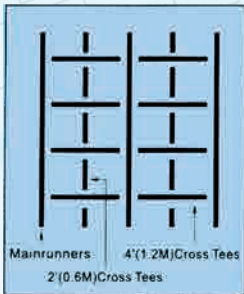
After Fire

DECOTECH SUSPENSION GRIDS

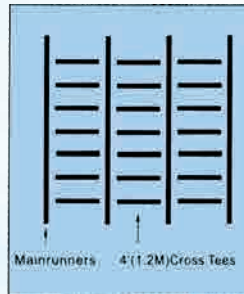


DECOTECH METAL
PROFILE FACTORY

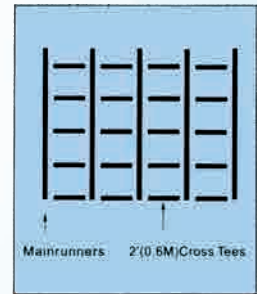
Types of combination



Mainrunners, Span: (1200 mm)



Mainrunners, Span: (1200 mm)



Mainrunners, Span: (600 mm)

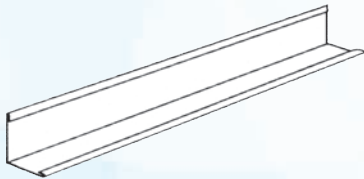
1200 x 600mm SIZES

DECOTECH ceiling suspension grids comprises main runners installed at not more than 1200mm centers, securely fixed by pre-straightened suspension wire. The wire shall not more than 150mm from the main runner splices, or expansion joints, and the maximum distance from the wire to the perimeter of the ceiling shall not exceed 450mm and otherwise at 1200mm centers.

Also, the main runners splices are to be staggered and not less than 450mm from the perimeter. Spanning between main tees are 1200mm cross tees at 600mm centers.

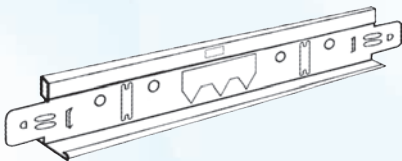
600 x 600mm SIZES

- Economical System for residential and commercial application
- Hot Clipped Galvanized Steel System
- Cross Tees with overlapped ends to resist twisting and for better aesthetics
- Load testing on the main Tees 17.90 kg/m tested according to ASTM C635
- Fire-rated Main Tees at no extra cost



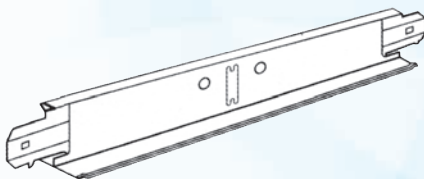
Wall Angle 3.0M

Model No.	Meas size	L	TK (mm)	W (mm)	H (mm)	Pcs/carton
DT-WA 3000	Metric	3.0M	0.40	24	24	40



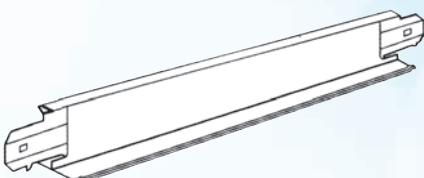
Main Tee 3.6M

Model No.	Meas size	L	TK (mm)	W (mm)	H (mm)	Pcs/carton
DT-MT 3600	Metric	3.6M	0.30	24	32	30



Cross Tee 1.2M

Model No.	Meas size	L	TK (mm)	W (mm)	H (mm)	Pcs/carton
DT-CT 1200	Metric	1.2M	0.30	24	25	60



Cross Tee 0.6M

Model No.	Meas size	L	TK (mm)	W (mm)	H (mm)	Pcs/carton
DT-CT 600	Metric	0.6M	0.30	24	25	60

DECOTECH ceiling suspension grids will support the distributed load without the mid-span deflection exceeding 1/360 span, in accordance to ASTM C635



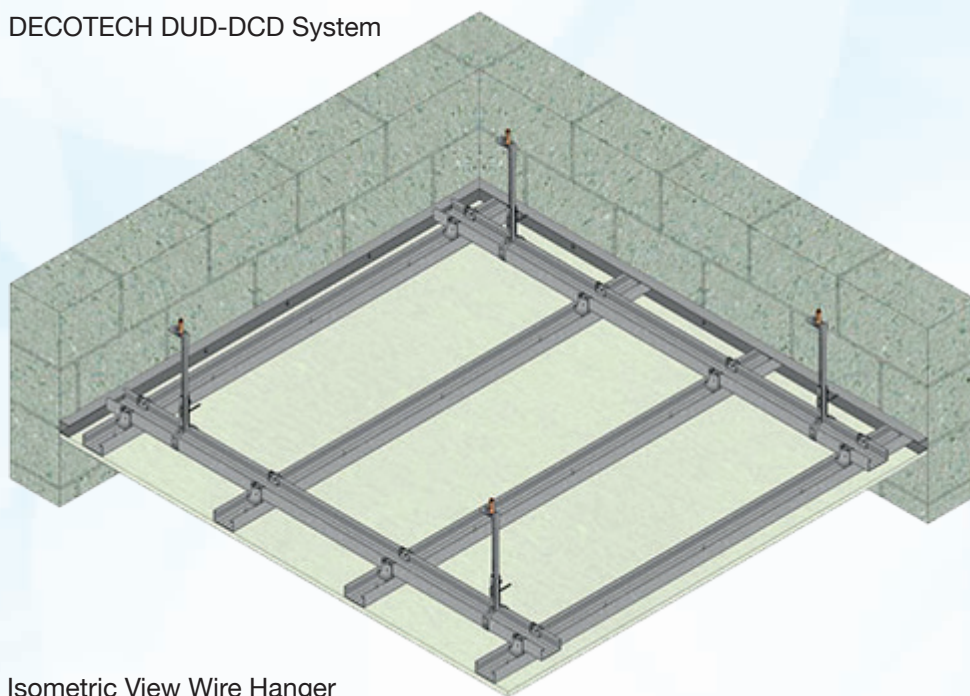
DECOTECH METAL
PROFILE FACTORY

DECOTECH DUD-DCD Suspended Ceiling System

The DECOTECH DUD-DCD Suspended Ceiling System with metal grid consists of Decotech DCD and Decotech DUD channels.

DCD channels are attached to the ceiling slab with hooked wires and rapid hangers or with Heavy Hangers. DCD channels are attached to channels with Clips. The DUD channel is installed flush on the existing bearing system of the building with anchoring screws. This facilitates the proper alignments and installation of all base and bearing studs and channels. Gypsum Boards are installed on metal grids with screw attachment, starting at one end and gradually advancing towards the other.

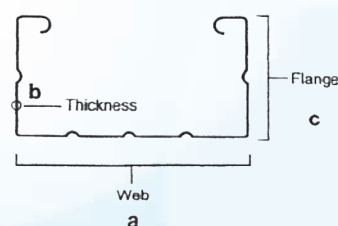
DECOTECH DUD-DCD System



Isometric View Wire Hanger



DCD Channel Section



DECOTECH DCD Channels are galvanized lightweight steel sections to be used as primary/main and secondary/furring channels for Ceiling Systems. Their increased web width allows faster and easier installation and smoother joints. All DCD Channels comply with EN14195.

Features

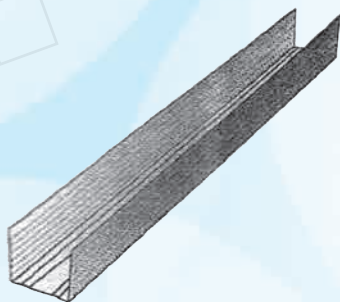
- Sturdy 0.6 mm sections with full set of compatible accessories
- Only one type of channel for main and furring functions
- Increased web width for faster/easier installation and smoother joints

Stud Type	Channel Web (a) (mm)	Channel thickness (b) (mm)	Channel Flange (c) (mm)	Channel Length (mm)	Weight (kg/m)	Zinc Coating Class (g/m ²)
Decotech DCD Channel	60	0.6	27	3000	0.584	Z90-Z275

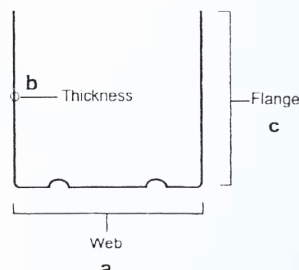
DECOTECH DUD-DCD Suspended Ceiling System



DECOTECH METAL
PROFILE FACTORY



DUD Channel Section



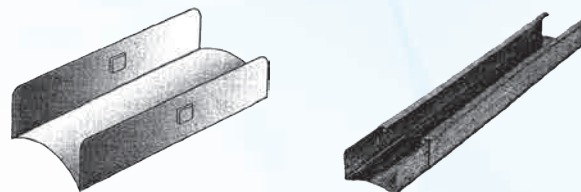
DECOTECH DUD Channels are galvanized lightweight steel sections to be used as perimeter channels for Ceiling and Wall Lining Systems. All DUD Channels comply with EN 144195.

Stud Type	Channel Web (a) (mm)	Channel thickness (b) (mm)	Channel Flange (c) (mm)	Channel Length (mm)	Weight (kg/m)	Zinc Coating Class (g/m ²)
Decotech DUD Channel	28	0.6	27	3000	0.360	Z90-Z275

Accessories

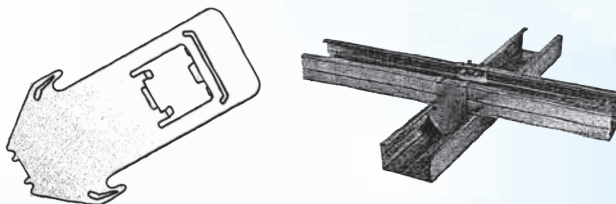
Multiconnector

Galvanized connector piece used for extending DECOTECH DCD Channels in cases of long spanned ceilings.



Clips

Galvanized clips to connect the main/primary DCD channels to the lower/furring DCD channels.



Steel Wire

- Galvanized 4.0 mm thick used as suspender
- Attached to basic ceiling with the help of steel ceiling dowels
- Load bearing Capacity = 25 kg



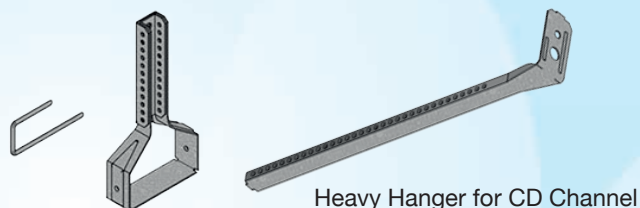
Rapid Hanger

- Accessories to be used with hanger wires
 - Hanger wire is attached to the clips of rapid hanger
 - Connected to Upper DCD channels
- System recommended for ceiling heights up to 1500 mm



Heavy Hangers

- Heavy Hanger Top attached to structural soffit and main DCD Channel as suspender
 - Load bearing capacity: 40 kg
 - Spacing of Suspender: 950 mm
- System recommended for ceiling heights up to 5000 mm









DECOTECH METAL PROFILE FACTORY

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