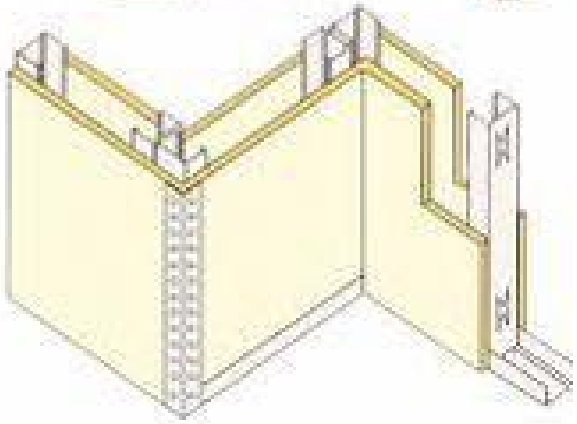
DANA DRYWALL SYSTEMS



ISO 9001:2015

Manufactured by:-

DANA STEEL PROCESSING INDUSTRY LLC
[A Division of DANA Group]

Dana Steel processing Industry LLC – Head office P.O Box 40743, Dubai, United Arab Emirates
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INTRODUCTION

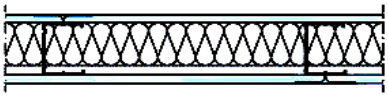
DANA STEEL PROCESSING INDUSTRY LLC was established as a part of **DANA GROUP** of Companies [www.danagroups.com] in the year 2001. It is a quality manufacturer of Quality Dry Wall Systems [*Profiles for Ceiling Suspensions and Partitions, Metal and Gypsum board Ceilings, Metal Stud Partitions, Metal Furring Channels, Wall Ties and Anchors, GI studs & tracks, Main Channels, Wall Angles & Spring Tees]* in the middle east. With Head quarters in Dubai & manufacturing facilities in Dubai & UAQ, it is a key player in the region, **DANA** is recognized with the high quality and professional services provided.

DANA METAL STUDS & TRACKS FOR PARTITIONS

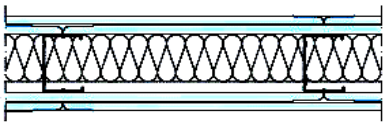
DANA Metal Studs and Tracks consist of steel studs and channels, also generically known as metal profiles. DANA Metal Studs and Tracks are manufactured in accordance with British i.e**., BS EN 14195:2005,BS EN 10162:2003, BS 5234-1:1992,BS 7364:1990,,German i.e.,. DIN 18182, and American i.e. ASTM C 645-08a standards**.

DANA Metal Stud Partitioning system consists of only three major components names Studs, Track and Gypsum Board. Low costs, Speed of erection, flexibility, minimum moisture and simplification of electrical installations makes DANA drywall partitioning systems a system of choice for all engineers, architects & contractors. The Drywall Studs are available in standard sizes and stock lengths and are manufactured of corrosion resistant galvanized steel. DANA Metal Studs and Tracks provide a compressive solution in the design phase of indoor wall partitions and wall linings where ease, speed and premium quality are of utmost importance.

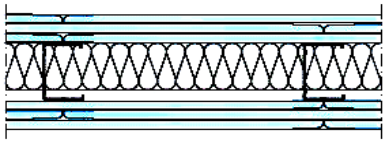
SSSL Metal Stud Partition



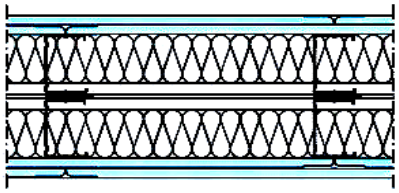
SSDL Metal Stud Partition



SSTL Metal Stud Partition



DSDL Metal Stud Partition



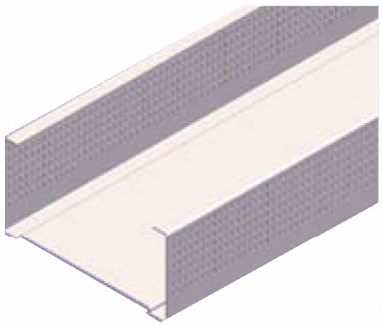
CONFIGURATIONS

- **SSSL Metal Stud Partition –Single Stud, Single Layered wall**
- **SSDL Metal Stud Partition –Single Stud, Double Layered wall**
- **SSTL Metal Stud Partition –Single Stud, Triple Layered wall**
- **DSDL Metal Stud Partition –Double Stud, Double Layered wall**

Selection Criteria	SSSL Metal Stud Partition	SSDL Stud Partition	SSTL Metal Stud Partition	DSDL MEtal Stud Partition
Fire Rating in Minutes (F)	30	30-120	120-180	30-120
Sound Insulation (dB)	41-44	50-53	51-55	59-60
Thermal Insulation (W/m²K)	0.40-0.66	0.38-0.61	0.36-0.57	0.27-0.37
Maximum Height (m)*	8	9	9.5	6.5
Partition Wall Thickness (mm)	75-117	100-142	125-167	155-239

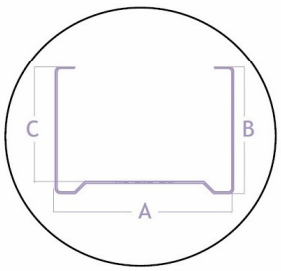
Stud

Reference	Dimensions mm A	B	C	Thickness mm	Length mm	Material
DS45	45	34	32	0.5 up to 1.5	3000	Galvanized
DS50	50	34	32	0.5 up to 1.5	3000	Galvanized
DS53	53	34	32	0.5 up to 1.5	3000	Galvanized
DS60	60	34	32	0.5 up to 1.5	3000	Galvanized
DS63	63	34	32	0.5 up to 1.5	3000	Galvanized
DS70	70	34	32	0.5 up to 1.5	3000	Galvanized
DS73	73	34	32	0.5 up to 1.5	3000	Galvanized
DS92	92	34	32	0.5 up to 1.5	3000	Galvanized
DS98	98	34	32	0.5 up to 1.5	3000	Galvanized
DS148	148	34	32	0.5 up to 1.5	3000	Galvanized



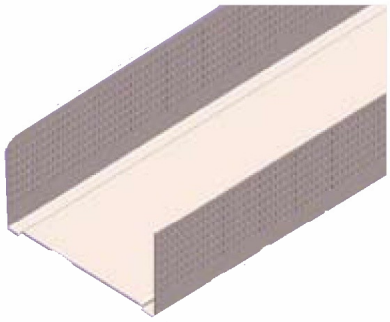
Salient Features of DANA STUDS :-

- Deep Dotted Flanges allow easy catching of Screws and faster screwing times.
- Web Cut-Out Slots[on request] For Easy MEP Cabling.
- Triple Indentation of Web enhances the rigidity of studs.
- 0.50-1.50mm thickness to meet the requirements of most demanding projects.
- High grade Hot Dipped Galvanized steel for high corrosion resistance.
- Custom made sizes of web & flange can also be made.



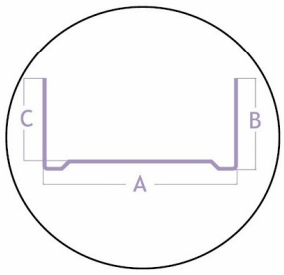
Track

Reference	Dimensions mm A	B	C	Thickness mm	Length mm	Material
DT47	47	25	23	0.5 up to 1.5	3000	Galvanized
DT52	52	25	23	0.5 up to 1.5	3000	Galvanized
DT55	55	25	23	0.5 up to 1.5	3000	Galvanized
DT62	62	25	23	0.5 up to 1.5	3000	Galvanized
DT65	65	25	23	0.5 up to 1.5	3000	Galvanized
DT72	72	25	23	0.5 up to 1.5	3000	Galvanized
DT75	75	25	23	0.5 up to 1.5	3000	Galvanized
DT94	94	25	23	0.5 up to 1.5	3000	Galvanized
DT100	100	25	23	0.5 up to 1.5	3000	Galvanized
DT150	150	25	23	0.5 up to 1.5	3000	Galvanized



Salient Features of DANA Tracks :-

- Deep Dotted Flanges allow easy catching of Screws and faster screwing times.
- Multifunctional design allows same channel to be used for ceilings & wall linings.
- Triple Indentation of Web enhances the rigidity of tracks.
- 0.50-1.50mm thickness to meet the requirements of most demanding projects.
- High grade Hot Dipped Galvanized steel for high corrosion resistance.
- Custom made sizes of web & flange can also be made.



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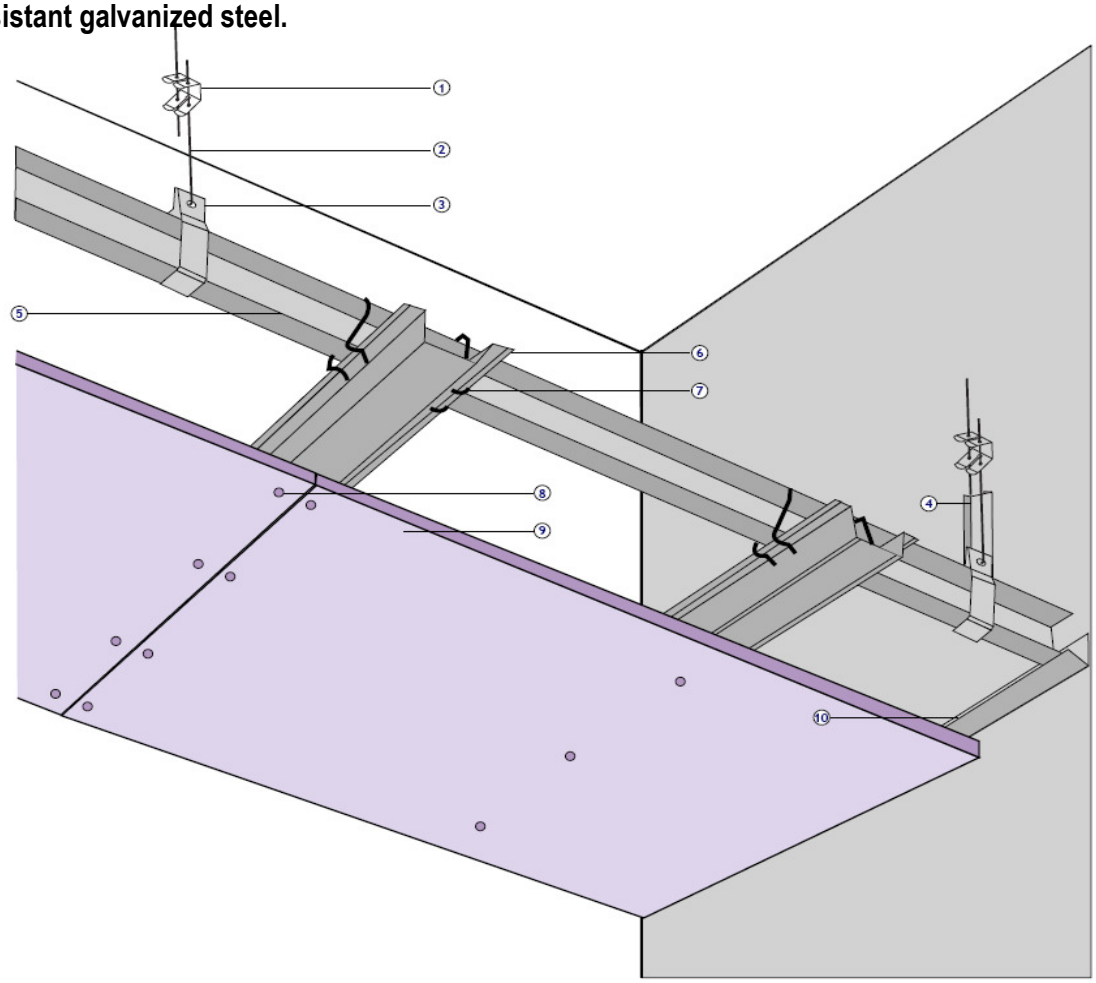
DANA METAL CHANNELS FOR CEILINGS

DANA Metal Channels for Ceilings consist of Main Channel, Furring Channel & Angle, and also generically known as metal ceiling profiles. DANA Metal Channels for Ceilings are manufactured in accordance with British i.e., BS EN 14195:2005,BS EN 10162:2003, BS 5234-1:1992,BS 7364:1990, ,German i.e.,. DIN 18182, and American i.e. ASTM C 645-08a standards.

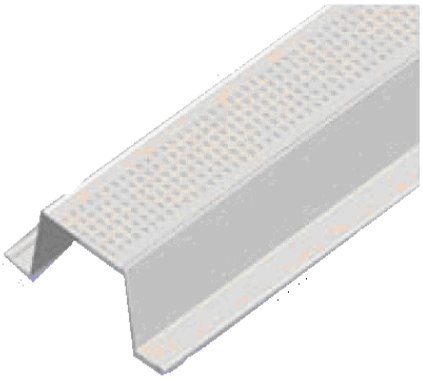
DANA Metal Ceiling system consists of only three major components names Studs, Track and Gypsum Board. DANA Ceiling Systems with DANA Main Channel, Furring Channel & Angle provide a compressive solution in the design phase of interior suspended ceilings where ease, speed and premium quality are of utmost importance.. DANA Metal Ceiling Profiles are available in standard sizes and stock lengths and are manufactured of corrosion resistant galvanized steel.

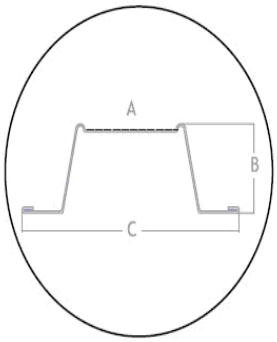


① Adjustable Clip
② Hanging Wire
③ Main Channel Bracket
④ Rigid Channel & Wangle
⑤ Main Channel
⑥ Furring Channel
⑦ Wire Clip
⑧ Dry Wall Screw
⑨ Gypsum Board
⑩ Wall Angle

Furring Channel

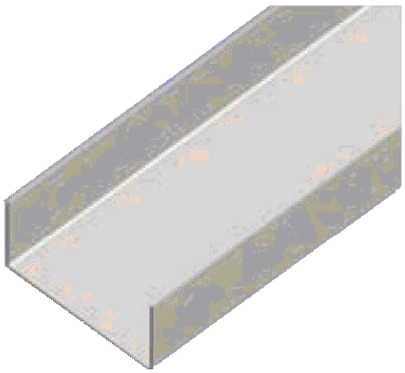
Reference	Dimensions mm A	B	C	Thickness mm	Length mm	Material
DFC 38	35	22	68	0.5 up to 1.2	3000	Galvanized
DFC 45	50	22	83	0.5 up to 1.2	3000	Galvanized

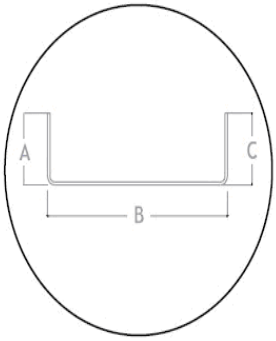




Main Channel

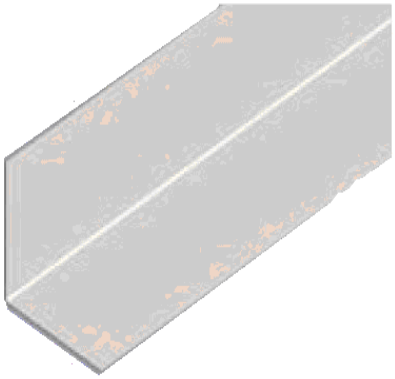
Reference	Dimensions mm A	B	C	Thickness mm	Length mm	Material
DC 38	12	38	12	0.5 up to 1.5	3000	Galvanized
DC 45	12	45	12	0.5 up to 1.5	3000	Galvanized
DC 50	12	50	12	0.5 up to 1.5	3000	Galvanized

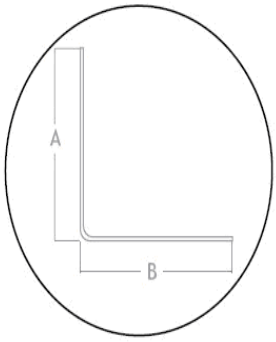




Wall Angle

Reference	Dimensions mm A	B	Thickness mm	Length mm	Material
DA 25	25	25	0.5 up to 1.5	3000	Galvanized
DA 30	30	30	0.5 up to 1.5	3000	Galvanized
DA 40	40	40	0.5 up to 1.5	3000	Galvanized





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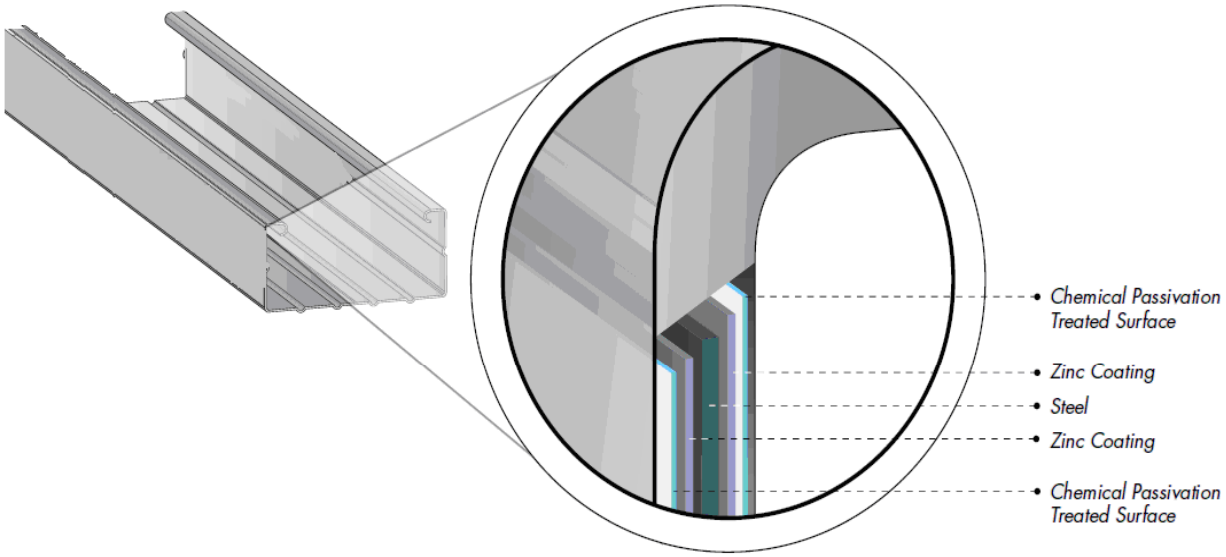
Metal Profiles Raw Material Specification

Steel	**Yield Strength**	:	295 Mpa
	Tensile Strength	:	345Mpa
	Elongation in 80mm	:	25%
	Hardness (HRB)	:	64

Steel Character



Protection	**Method**	:	Hot Dip Galvanization
	Quality	:	98% Zinc (Zn)
	Coating Classification	:	Z140/180/220/275
	Coating Thickness	:	140/180/220/275 gr /m² both sides 10μ m single side
	Coating Finish	:	Normal Spangle (N)
	Surface Quality	:	As-coated surface (A)
	Surface Treatment	:	Chemical Passivation (CA)

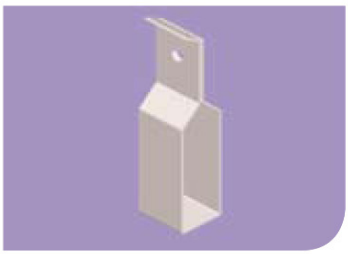
*Z140 is the standard coating thickness for Dana Drywall Systems profiles. Higher coating thicknesses are available upon request. Contact Dana Drywall Systems sales team for availability and delivery times.

DANA DRYWALL ACCESSORIES

AC-50 Adjustable spring clips.

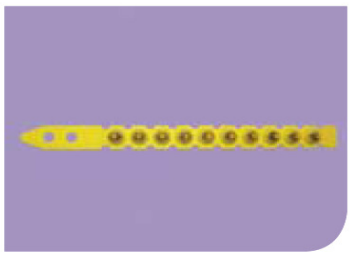
AC-51 Hanging wires for all ceiling systems.

AC-52 Adjustable spring clips for strip systems.



AC-53 Main channel bracket.

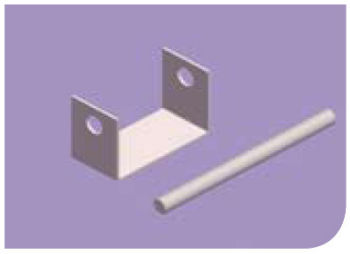
AC-54 Preformed galvanized mild steel wire clip.



AC-55 Cartridge

AC-56 Ceiling clip nail

AC-57 Hold down clip.



AC-58 C-clamp channel & C-38 Threaded rod with M6 nuts.

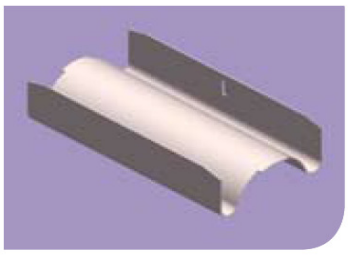
AC-59 Carrier connector galvanized steel for linear strip system

AC-60 Hanger lower part

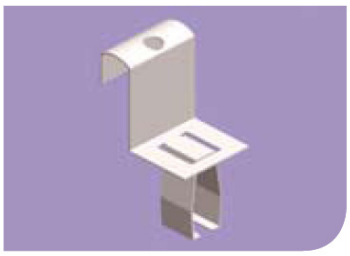
AC-61 Hanger upper part

AC-65 Hanger pin

AC-62 Fixing bracket.



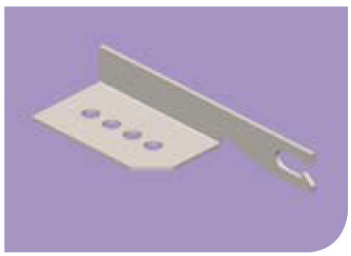
AC-63 Connector



AC-64 Rail connector

AC-66 Spring tee fixing clip (Hanger), galvanized steel concealed clip-in system.

AC-67 Spring tee connector 11cm Length, 0.6 galvanized steel concealed clip-in system.



AC-68 Main tee bracket A

AC-69 Main tee bracket B

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Hanging rods with level adjustment clips

Suspended with cleats fixed to the structure or in the case of steel structure. can be looped over the members.

Advantages

Inexpensive and effective
Can be used to suspend almost any propietary ceiling system, as well as pain ceilings.
Readily bent into hooks or loops to suit upper and lower fixing
Uses any common fixings to the structure.
Works with varying ceiling heights and sloping structures.
Can be installed rapidly by non-expert labour.
Adapts easily to avoid ceiling ibstructions
Allows fine leveling of the ceiling, and future adjustment.

Hanging rods with adjustment clips

Wedge Clip

Wedge Clip holds down the gypsum board or any ceiling tiles to prevent from movement and serves as lock together with the edge trim.

Wedge Clip

Main Channel Bracket

There are two sizes for the Main Channel Bracket, MC 38 and MC 45 with the height of 38mm and 45mm and the thickness is from 0.70mm up to 1.5mm. It holds the main bracket especially in the furring ceiling systems.

Main Channel Bracket

Rigid suspension systems

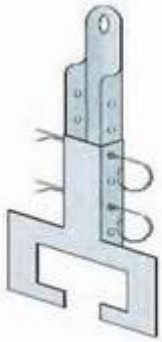
Suspended on straps from cleats fixed to the structure.

Advantages

Relatively rigid and resistant to uplift from are movement.
Has built-in adjustment facility for leveling the ceiling.
Can support elatively heavy ceiling fittings.

Disadvantages

Each rigid system is part of the particular propietary ceiling system to which it relates and installers have to learn the characteristics of each system. The fittings must be ordered with the ceiling system and spare quantities are not generally useful for other jobs. Adjustment is limited by the spacing of holes, and fine adjustment is not possible.



Rigid suspension systems

Spring Tee Fixing Clip

Spring tee fixing clip commonly called as hanger is a galvanized steel used for concealed clip in system.

Spring Tee Fixing Clip

Adjustable spring clips attached together with the hanging wire for an easy adjustment on fixing suspended and concealed ceiling system.

Adjustable Spring Clips

Raw Material Standards

O Aluminum	BS EN 573-3:2009, BS EN 485-2:2008 ASTM B 209 M in Alloy Grade 3005 & 3105
O Galvanized Steel	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z120, Z180 & Z275 ASTM A 653/A653M
O Stainless Steel	BS EN 10088-2:2005(which was direct equivalent to formerly BS 1449:Part 2:1983, in Mirror FINISH) ASTM A240/A240M in Mirror FINISH
O Preformed Wire Clip	Galvanized Steel Wire to BS EN 10244-2:2009 ASTM A 641/A641 M
O Hanging Wire	Galvanized Steel Wire to BS EN 10244-2:2009 ASTM A641/A641 M
O Adjustable Spring Clip	Carbon Steel Strip to BS EN 10132-4:2000 Zinc Plated to BS EN ISO 2081:2008, ASTM B 633 Phosphated to BS 7371-9:1996
O Main Channel Bracket	Galvanized Steel Strip to BS EN 10346:2009, ASTM A653/A653 M

Manufacturing Standards

O DryWall Partitioning System & Dryline Ceiling System	BS EN 10162:2003, BS 5234-1:1992, BS 7364:1990, BS EN 14195:2005 ASTM C 645
O Ceiling Suspension System(T-Grid System)	ASTM C 635-97
O Hot dipped Galvanizing (After fabrication) to	BS EN ISO 1461:1999 (formerly BS 729) ASTM A123/A123 M , A 153/A153 M
O Powder Coating to	BS 6497:1984