

2022

REALSTEEL CEILING PRODUCTS CATALOG

Q3 2022 |

Furring Channel System



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ENTERPRISES

Introduction

Ceiling Suspension Systems are considered an important substitution for ordinary ceiling which is widely used in deferent locations either indoor or outdoor. Through the last 30 years, Ceiling Systems have undergone a lot of improvements and developments, depending on the place of usage and the way of assembly.

Furring is a technique used to level out walls and ceilings with furring channels. A hat channel is a hat-shaped aluminum channel used to fur out a wall, masonry wall, or ceiling to provide a corrosion-resistant framing component. Hat channels and Z channels are often used by masons and builders to level uneven walls or ceiling. An added benefit of the aluminum channel is that they protect your interior and exterior framing applications from fire, moisture, and corrosion.

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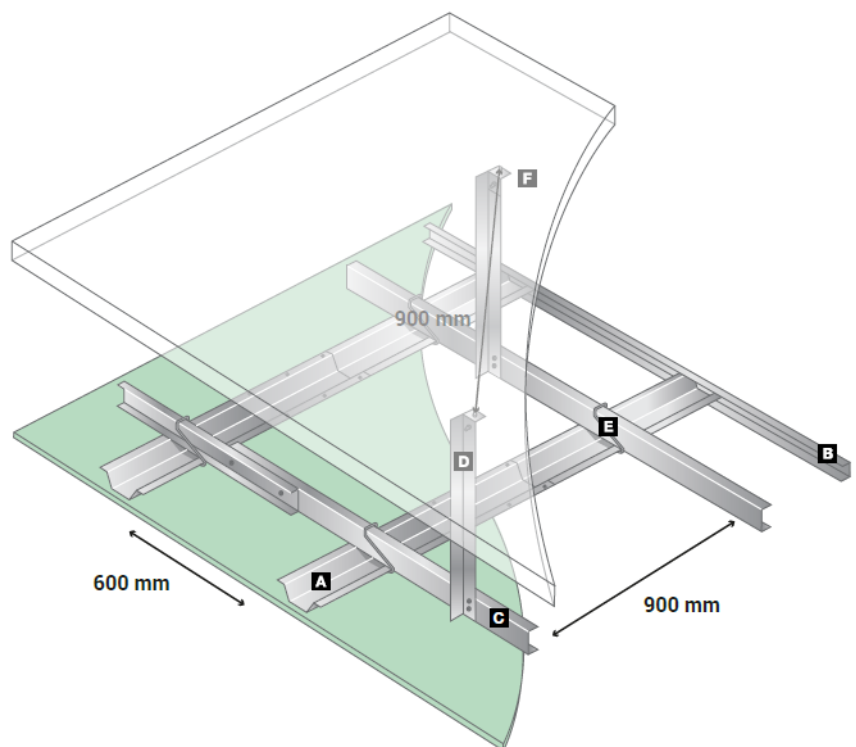
Furring Channel System

System Description

This System is a versatile hat-shaped metal channel, designed for “Furring” out any surface for final finish application. Furring channel is used in conjunction with cold rolled channel, suspended steel frame cladded with gypsum board sheets. This system is ideal for smooth areas that is needed without joints or for concealing services.

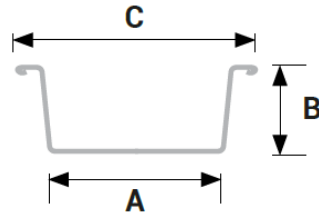
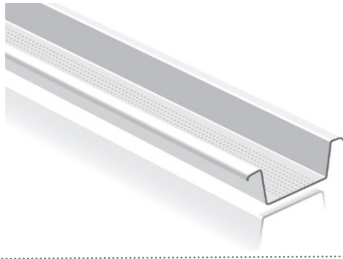
Our Ceiling system has a wide range of applications including both residential and commercial. It can be used to both upgrade and protect existing ceiling structures. Varying ceiling heights can be achieved to accommodate the varying ducting and services that are used in the market place today. Our ceiling system is compatible with all proprietary plasterboards.

System Components	
A	Furring Channel
B	Wall Angle
C	Main Channel
D	Angle Section
E	Wire Clip
F	Angle Cleat



Furring Channel System

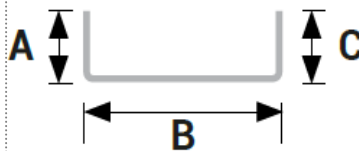
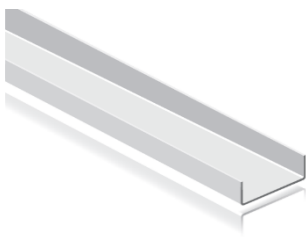
Furring Channel



Galvanized Steel: BS EN 10346:2009 (formerly BS EN 10142:1991)
Coating Type: Z90 & Z120 ASTM A653 /A653M
Thicknesses and custom lengths are available upon request.

Reference	Dimensions (mm)			Thickness (mm)	Length h (mm)	Dimensions (inch)			Thickness (Gauge)	Length (ft.)	Material
	A	B	C			A	B	C			
FC25GA	35	22	68	0.5	3048	1 3/8"	7/8"	2 11/16"	25	10'	Galvanized
FC25GB	32	22	68	0.5	3048	1 1/4"	7/8"	2 11/16"	25	10'	Galvanized
FC20GA	35	22	68	0.9	3048	1 3/8"	7/8"	2 11/16"	20	10'	Galvanized
FC20GB	32	22	68	0.5	3048	1 1/4"	7/8"	2 11/16"	20	10'	Galvanized

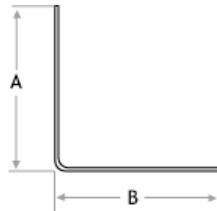
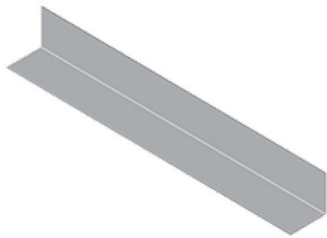
Main Channel



Galvanized Steel: BS EN 10346:2009 (formerly BS EN 10142:1991)
Coating Type: Z90 & Z120 ASTM A653 /A653M
Thicknesses and custom lengths are available upon request.

Reference	Dimensions (mm)			Thickness (mm)	Length (mm)	Dimensions (inch)			Thickness (Gauge)	Length (ft.)	Material
	A	B	C			A	B	C			
MC25G	12	38	12	0.5	3048	15/32"	1 1/2"	15/32"	25	10'	Galvanized
MC20G	12	38	12	0.9	3048	15/32"	1 1/2"	15/32"	20	10'	Galvanized
MC16G	12	38	12	1.32	3048	15/32"	1 1/2"	15/32"	16	10'	Galvanized

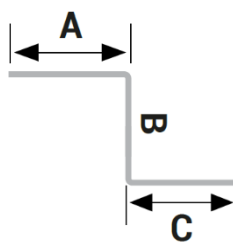
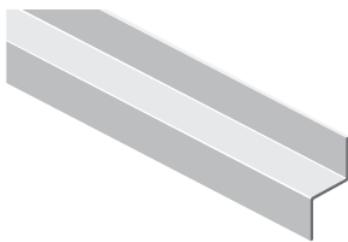
Wall Angle



Galvanized Steel: BS EN
10346:2009 (formerly BS EN
10142:1991)
Coating Type: Z90 & Z120 ASTM
A653 /A653M
Thicknesses and custom lengths
are available upon request.

Reference	Dimensions (mm)		Thickness (mm)	Length (mm)	Dimensions (inch)		Thickness (Gauge)	Length (ft.)	Material
	A	B			A	B			
WA25GA	25	25	0.5	3048	31/32"	31/32"	25	10'	Galvanized
WA20GA	25	25	0.9	3048	31/32"	31/32"	20	10'	Galvanized
WA25GB	50.8	50.8	0.5	3048	2"	2"	25	10'	Galvanized
WA20GB	50.8	50.8	0.9	3048	2"	2"	20	10'	Galvanized
WA16GB	50.8	50.8	1.32	3048	2"	2"	16	10'	Galvanized

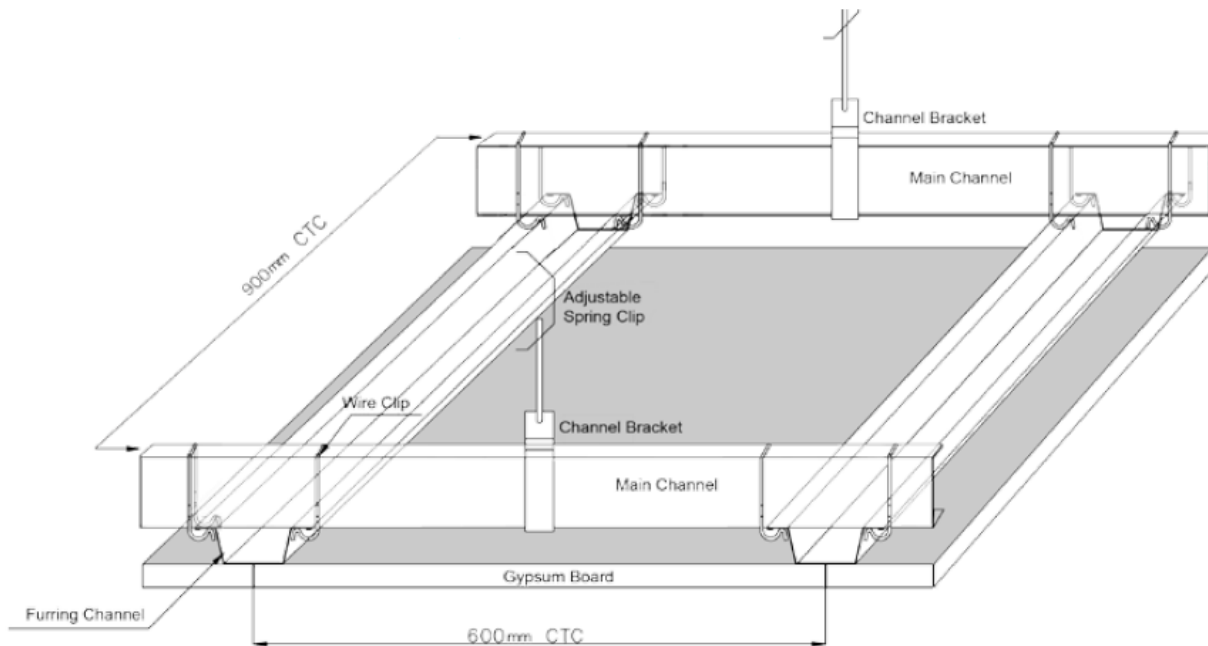
Z-Trim



Galvanized Steel: BS EN
10346:2009 (formerly BS EN
10142:1991)
Coating Type: Z90 & Z120 ASTM
A653 /A653M
Thicknesses and custom lengths
are available upon request.

Reference	Dimensions (mm)			Thickness (mm)	Length (mm)	Dimensions (inch)			Thickness (Gauge)	Length (ft.)	Material
	A	B	C			A	B	C			
ZT25G	20	19	19	0.5	3048				25	10'	Galvanized
ZT20G	25	20	20	0.9	3048				20	10'	Galvanized

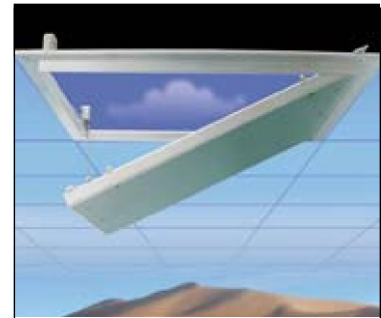
Furring System Installation Method



1. Level marking on wall for suspended ceiling levels using water level or laser method as datum on walls. (Same method to be used for checking false ceiling gypsum board at corners and mid span of support system when fixed).
2. Fix wall angle for suspended ceiling.
3. Mark out and commence fixing of grid suspension system using Furring Channels at 600mm centers and Main Channels at 1,200mm centers not more than 900 mm from perimeter wall for both Furring and Main Channels. Suspension system to be with hanging wire and adjustable clip at 1,200 mm centers fixed to the soffit using ceiling clip and cartridge.
4. Connecting Main Channel with Furring Channel using wire clip.
5. Installation of Main Channel and Furring Channel to be adjusted where required accommodating MEP services, light fittings, diffusers, etc...
6. Gypsum board 12.50mm thickness to be screwed to Furring System with approved dry wall screws.
7. Filling of board joint gaps with joint compound.
8. Fixing of joint fiber tape on board joints and finishing with joint compound made ready to receive decoration.
9. Cut apertures for lights, plenum boxes, etc... Cut holes of HVAC balancing and re-fix.
10. Construct archway structure in angle system to required profile.

Access Panels

- The Classic Panel provides protected openings in ceilings and walls for access to building engineering services. The Access Panel frame is finished in powder coated white and can be over painted to blend with the surrounding surface. The Classic Panel is a high-quality robust solution suitable for everyday use with all the discrete advantages the client demands of an access panel. Each panel is made to suit the individual tile and combination of tiles being used. This ensures no unsightly tile cuts or visible frames to disrupt the overall tiled finish. The design utilizes a continuous piano hinge that limits door sag to a minimum, thus avoiding chipped tiles caused by the door dropping as it is opened. The Access Panel frame consists of powder coated aluminum frame with Regular, Fire Resistant or Moisture Resistant Gypsum Board with a thickness ranging from 12mm up to 15mm.
- Access Panels Most Popular Sizes:



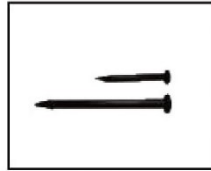
200 mm x 200 mm	600 mm x 600 mm
300 mm x 300 mm	700 mm x 700 mm
400 mm x 400 mm	800 mm x 800 mm
450 mm x 450 mm	900 mm x 900 mm
500 mm x 500 mm	1000 mm x 1000 mm

7 7/8 inch x 7 7/8 inch	23 5/8 inch x 23 5/8 inch
11 13/16 inch x 11 13/16 inch	27 9/16 inch x 27 9/16 inch
15 3/4 inch x 15 3/4 inch	31 1/2 inch x 31 1/2 inch
17 23/32 inch x 17 23/32 inch	35 7/16 in x 35 7/16 inch
19 11/16 inch x 19 11/16 inch	39 3/8 inch x 39 3/8 inch

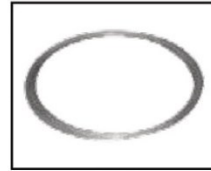
Recommended Accessories for Installation



Adjustable Spring Clip



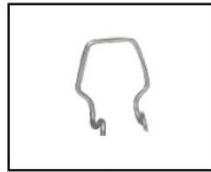
Steel Nails



Hanging Wires



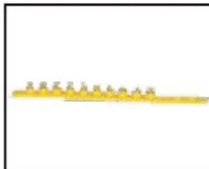
Main Channel Bracket



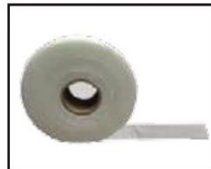
Wire Clip



Ceiling Clip Nail



Ceiling Cartridge



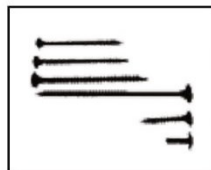
Fiber Tape



Gypsum Boards



Gypsum Compound Ready Mix



Screws



Rawlplug



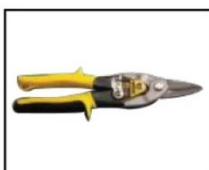
C-Clamp Channel



Fixing Bracket



Measure Tape



Steel Cutter



Hand Planer



Chalk Liner



Utility Knife



Drilling Machine

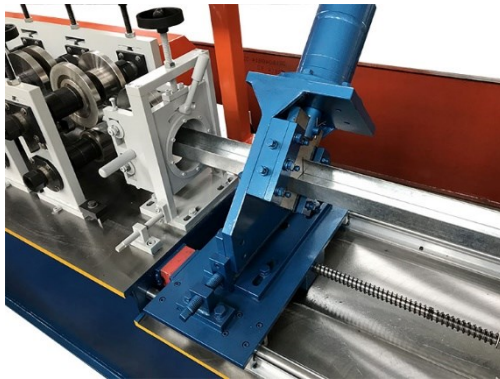


Ceiling Gun

Delivery / More about RealSteel

All products are sold in accordance with RealSteel standard terms and conditions.

Special Orders



RealSteel has the ability to deliver special lengths and sizes upon projects and client's requirements to keep your orders on schedule.

Marketing



RealSteel has a large network of freight carriers that allow us to provide exceptional customer service. RealSteel strives to ship all shipments within stipulated delivery time.

Packaging



RealSteel uses quality packaging materials to ensure that our products arrive to you in good condition.

Materials Safety and Datasheet

Materials

All sections are manufactured from high quality zinc coated steel, which is light and easy to handle and fasten, has corrosion protection and is immune from biological attack in all its forms. Where severe corrosive conditions prevail, such as acids and salt sprays, extra precautions will be required to ensure the life of the product.

Packaging handling and storage

All framing sections are supplied in strapped bundles of varying weight and length. It is always desirable to leave the strapping in place until they are required as loose elements can be susceptible to damage. Bundles should be kept dry by storing under cover or covering with plastic sheeting as moisture can damage the coatings leading to reduced life and unsightly appearance.

Safety

Care should be taken when handling steel components as sharp edges can cause harm. Protective gloves should be worn by all workmen. Persons who suffer from allergies & sensitive skin conditions should handle metal products with caution or seek an opinion from the medical professional. Hands should be washed after handling steel components for personal hygiene. If cutting is required all operators should wear protective goggles, gloves and hearing protection, when using grinders, cutting wheels etc.



Technical Specifications:

Raw Materials Standards:

Aluminum

BS EN 573-3:2009, BS EN 485-2:2008
ASTM B209M

Galvanized Steel

BS EN 10346:2009 (formerly BS EN 10142:1991)
Coating Type: Z120, Z180 & Z275
ASTM A653/A653M

Stainless Steel

BS EN 10088-2:2005 (formerly BS 1449:Part 2:1983)
ASTM A240/A240M

Preformed Wire Clip

Galvanized Steel Wire to BS EN 10244-2:2009
ASTM A641/A641M

Hanging Wire

Galvanized Steel Wire to BS EN 10244-2:2009
ASTM A641/A641M

Adjustable Spring Clip

Carbon Steel Strip to BS EN 10132-4:2000
Zinc Plated to BS EN ISO 2081:2008
Phosphated to BS 7371-9:1996

Main Channel Bracket / Channel Clamp / Spring Tee Hanger / Spring Tee Connector / Ceiling Rail Connector / Main Tee L- Shape Connector & other G.I. Accessories

Galvanized Steel Strip to BS EN 10346:2009,
ASTM A653/A653M

Drywall Partitioning Systems & Dryline Ceiling Systems

BS EN 10162:2003, BS 5234-1:1992,
BS 7364:1990, BS EN 14195:2005 ASTM C645

Ceiling Suspension Systems (Tee Grid System)

ASTM C635-97

Hot Dip Galvanizing After Fabrication (HDGAF)

BS EN ISO 1461:1999 (formerly BS 729)
ASTM A123/A123M

Powder Coating

BS 6497:1984

Load Calculation:

ASTM C645 - 5.1 Standards



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