



# Gypframe Metal Profiles

## Technical Datasheet

# Gypframe Metal Profiles

## Product data sheet



### Introduction

This data sheet contains the dimensional specification of the following Gypframe components - Gypframe Studs, Gypframe Channels, Gypframe MF, GypLyner, ShaftWall, Gypframe Steel Angles and Gypframe Specialist Profiles.

#### Characteristics

Gypframe profiles are cold roll formed from DX51D + Z140 NA-C, utilising the patented UltraSteel™ process.

#### Cold Rolling and UltraSteel™

UltraSteel™ is a manufacturing process that alters the characteristics of plain steel, providing higher strength capacity at a lighter gauge. The process effectively hardens the steel by working it in strips with two mating rolls, which produce a dimpled surface and ribbing effect across the surface of the metal. During the process, the effective thickness of the material is increased to that of the original thickness plus that of the ribbing.

#### EXAMPLE:

Base gauge = 0.5mm : after UltraSteel™ process = 1.0mm

Once the UltraSteel™ process has been applied, the base material is then passed through a series of contoured rollers which progressively form the steel into the required profile. The number of rollers in the process will vary, depending on the complexity of the profile being rolled. Service entries or tabs are pierced, either at the beginning or end of this process. The formed profiles are then cut to exact length, packed and then bundled ready for delivery. UltraSteel™ is unique to Gyproc and the Gypframe product range. Along with an aesthetic difference, UltraSteel™ provides the following additional benefits over plain steel sections:

- Improved yield strength
- Improved load carrying capacity
- Improved screw retention and strip out strength
- Improved resistance to screw pull-out

#### Standards

Gypframe metal products are produced to the European manufacturing standard EN 14195: 2005.

All Gyproc system solutions listed in the WHITE BOOK are covered by The SpecSure®, system warranty designed to protect the integrity of Gyproc specifications and deliver reliable performance, unrivalled technical support and peace of mind for everyone involved in the construction team.

#### General

Information on the handling of Gyproc systems and Gypframe profiles can be found in the WHITE BOOK. For health and safety guidance, handling, storage information, please refer to the Health and Safety section. All literature is available to download from [www.gyproc.ae](http://www.gyproc.ae).

Gyproc Drywall Screws should be used for fixing Gyproc plasterboard to Gypframe metal. Screw length should be based on board thickness and reaching a minimum of 10mm penetration into a metal framing.

#### EXAMPLE:

2 x 15mm Gyproc Regular + stud gauge + 10mm = minimum 42mm Gyproc Drywall Screw

Gyproc Drywall Screws	Gyproc Jack-Point Screws
Gyproc Plasterboard to Gypframe Metal upto 0.79mm thick	Gyproc Plasterboard to Gypframe Metal 0.80mm thick or above
-	Gypframe 'I' Stud

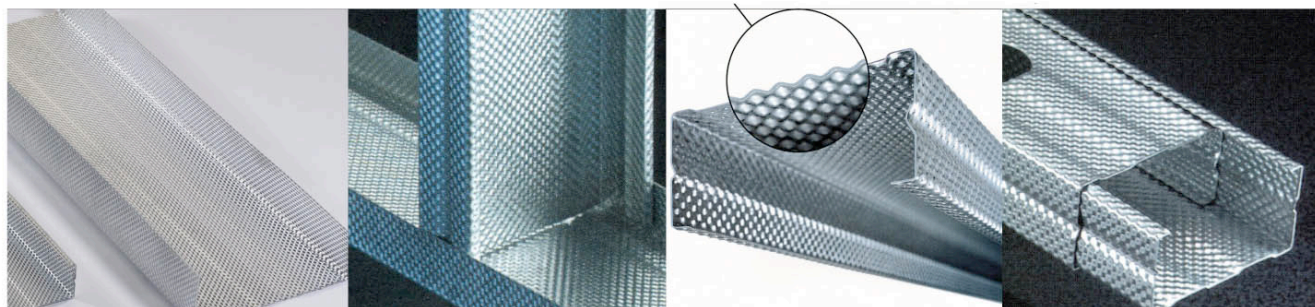
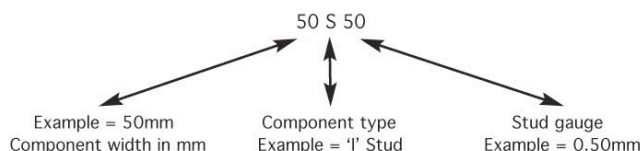
#### Fixing

For fixing Gypframe metal to metal use Gyproc Wafer Head/Jack Point Wafer Head Screws.

Gyproc Wafer Head Screws	Gyproc Wafer Head Jack-Point Screws
Gypframe sections up to 0.80mm thick	Gypframe sections 0.80mm thick or above
-	Gypframe 'I' Stud

#### Understanding Gypframe

The first 2 or 3 digits of a component code refer to the component width, the letters refer to the component type and the last two digits indicate metal thickness or gauge in mm (see example below).



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### Gypframe Studs

Used as the vertical support in wall framing, these products are available in a range of widths, lengths and gauge depending on requirements for strength, height, impact resistance and sound insulation. Profile drawings are on page 3.

### Gypframe 'C' Studs

The Gypframe 'C' Stud design includes sight lines down the legs of the stud to ease board alignment and increase profile strength. Structural apertures are also spaced along the spine of the Gypframe 'C' Stud, providing easy routing of services through a partition.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
50 S 50	50	0.50	3000	0.457
63 S 50	63	0.50	3000	0.498
70 S 50	70	0.50	3000	0.524
73 S 50	73	0.50	3000	0.542
100 S 50	100	0.50	3000	0.634
150 S 50	150	0.50	3000	0.822

### Gypframe 'I' Studs

These studs are the strongest available in the Gypframe range. They allow for increased partition height, without increasing partition width, and provide improved impact resistance. Commonly used in ShaftWall, GypLynner IWL, GypWall QUIET IWL and other GypWall systems where board fixing strength is paramount. Structural apertures are also spaced along the spine of the Gypframe 'I' Stud, providing easy routing of services through a partition.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
70 I 70	70	0.70	3000	1.077
100 I 80	100	0.80	3000	1.414
150 I 90	150	0.90	3000	1.733

### Gypframe Standard, Deep Flange and Extra Deep Flange Floor & Ceiling Channels

These products are used for retaining wall studs at floor and ceiling junctions. Although Standard (C) channels are the most commonly used, Deep Flange (DC) and Extra Deep Flange (EDC) versions are available for partitions over 4200mm high and 8000mm high respectively, or in situations where deflection head details, improved impact resistance and easier skirting fixing are required. Profile drawings are on page 3.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
52 C 50	52	0.50	3000	0.365
65 C 50	65	0.50	3000	0.413
72 C 50	72	0.50	3000	0.439
75 C 50	75	0.50	3000	0.450
102 C 50	102	0.50	3000	0.550
152 C 50	152	0.50	3000	0.734

\* - Bespoke lengths available on request.

### Gypframe MF ceiling channels and accessories

These channels and associated accessories are designed for providing seamless suspended ceilings that can be either flat or curved. Profile drawings are on page 3.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
MF5 Ceiling Section	22	0.50	3000	0.367
MF7 Primary Support Channel	38	0.50	3000	0.218

### GypLynner channels and accessories

This range of channels and accessories is designed for the ease of installing plasterboard linings on masonry walls, concrete soffits, timber joists, and the encasement of steel columns and beams. Profile drawings are on page 3.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
GL1 Lining Channel	38	0.50	3000	0.263

### ShaftWall starter channels

This range of channels and compatible accessories is designed especially for the high performance ShaftWall system. Profile drawings are on page 3.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
70 SC 70	70	0.70	3000	0.687
102 SC 80	102	0.80	3000	0.952
152 SC 90	152	0.90	3000	1.290
RC70	34.75	0.50	3000	0.247
RC100	78	0.50	3000	0.392
RC150	51	0.50	3000	0.283

NB: N/A = Not Applicable

### Gypframe Steel Angles

Widely used in framed construction to provide support, fixing and additional strength to wall, ceiling and encasement framing. Profile drawings are on page 3.

Product description	Width mm	Gauge mm	Available lengths mm*	Linear metre weight kg
GA1 Steel Angle	25 x 25	0.50	3000	0.177

# Gypframe Metal Profiles

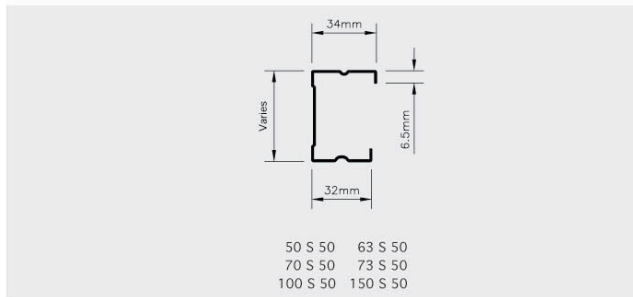
## Product data sheet



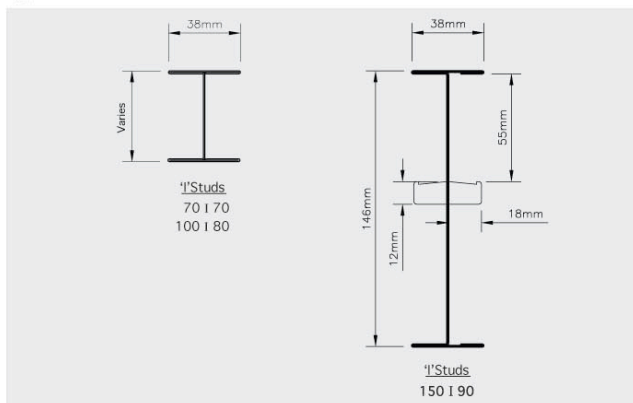
### Gypframe Profiles

#### Studs

##### Gypframe 'C' Studs

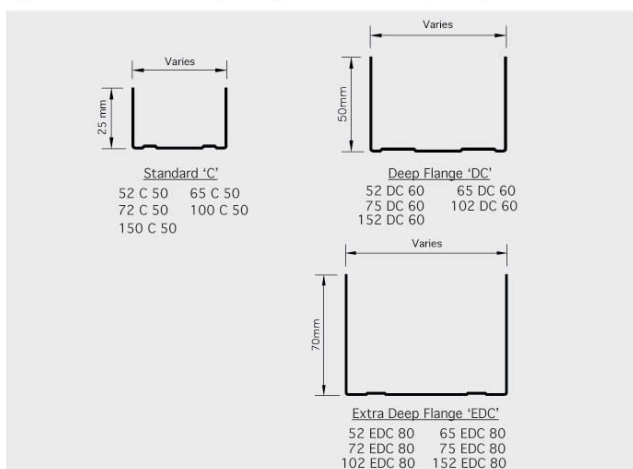


##### Gypframe 'I' Studs



#### Channels

##### Gypframe Standard, Deep Flange and Extra Deep Flange



#### Gypframe metal components - understanding the codes

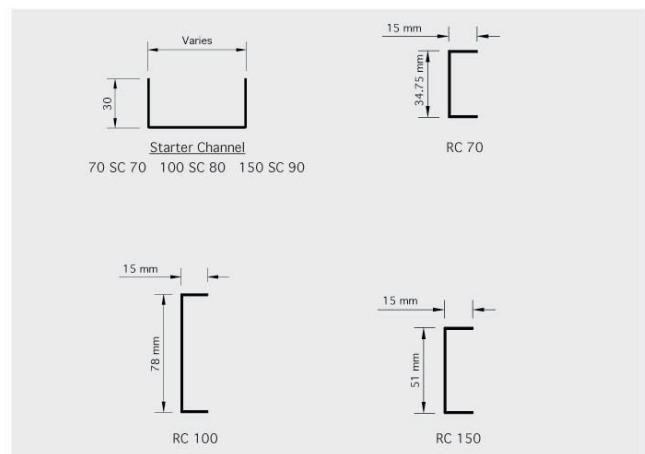
NB: the first two or three digits of each code refer to the component width, the letters refer to the component type and the last two numbers indicate metal thickness in mm.

Examples:

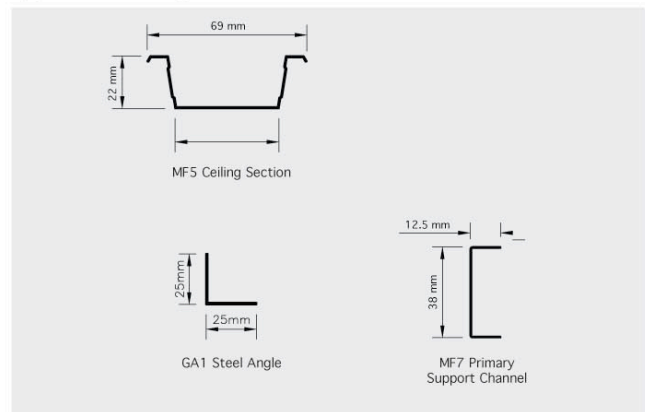
50 S 50 refers to 50mm wide, C shaped Stud with a metal thickness of 0.50mm.

70 I 70 refers to 70mm wide, I shaped stud with a metal thickness of 0.70mm.

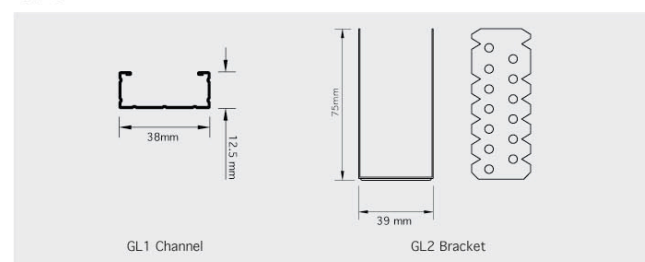
#### ShaftWall Channels



#### Gypframe MF ceiling sections



#### GypLyner sections



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### Health & Safety

#### 1. Identification of the substances / preparation and company

Gypframe metal sections

Supplier Saint Gobain Gyproc Emirates Industries L.L.C  
ICAD1, Mussafah  
Abu Dhabi  
United Arab Emirates  
P.O. Bx 38983  
Free Phone: 800 GYPROC (497762)

Recommended uses: In conjunction with Gyproc plasterboards to form internal walls and ceiling systems, linings and encasements.

#### 2. Composition / information on ingredients

General composition: Mild steel sections coated by zinc electrolytic process or hot dip galvanised process. The sections may have a protective film of a roll forming hydrocarbon lubricant or a residue of cutting fluid.

#### 3. Hazards identification

THE MOST IMPORTANT HAZARDS ARE:

These products are **not** classified as dangerous according to CHIP. CHIP is the law that applies to suppliers of dangerous chemicals. Its purpose is to protect people and the environment from the effects of those chemicals by requiring suppliers to provide information about the dangers and to package them safely.

There is a risk of cuts and abrasions from sharp edges and ends when handling metal sections and in use where they have been fitted to floors or walls and are exposed, prior to fixing plasterboard.

There is also a risk when cutting the banding due to the release of tension and the potential movement of material. Repeated contact with sheet metal coatings may cause skin irritation. During flame cutting, grinding or drilling, irritant fumes or dust may be produced which can cause metal fume fever.

#### 4. First aid measures

Eye contact Seek medical attention and treatment.  
Skin contact Wash thoroughly with soap and water.  
Ingestion Seek medical attention and treatment.  
Inhalation If irritation persists, remove person to fresh air  
General Get medical attention if any symptoms persist.

#### 5. Fire fighting measures

The products do not pose a fire hazard. However, the protective coating/lubricant, packaging banding or sponge rubber elements may be combustible and emit hazardous fumes.

Suitable extinguishing media – foam, carbon dioxide, dry powder.

#### 6. Accidental release measures

Product discarded in an unaltered form is classified as a non-hazardous waste.

#### 7. Handling and storage

**Mechanical handling** – The dimensions of the pallet vary depending upon the product size. To avoid potentially overloading a lift truck, it is important that any effect on load centres is considered. The nominal weight of each palletised load is given on the delivery note.

**Manual handling** – Metal sections are supplied in a variety of lengths and widths and the weight of different sections varies. Do not use the banding or straps for lifting. Carefully consider the manual handling risks before lifting sections of metal. Appropriate cut-resistant PPE should be used when handling metal sections.

**Storage** – Store on pallets supplied and in dry conditions. To maintain stability, place pallets on firm level ground and ensure that stacks are both level and vertical. Stack height should not exceed twice the width of the pack. Banding should only be removed at ground level.

**Use** – Caution: as with all cut metal products, there is risk from sharp corners or edges. Appropriate cut-resistant PPE should be used when handling metal sections. Avoid prolonged and repeated contact with skin and wear protective clothing when handling metal sections (see Section 8).

When the banding is cut it may spring back as tension is released and the pack of material may become unstable. Appropriate PPE (including eye protection to BS EN 166) should be worn.

Metal sections which have been fixed to the floor or side wall, ready for plasterboard fixing, may have exposed sharp edges and care should be taken to protect persons from unintentional contact. Exposure to potentially sharp edges should be minimised.

Metal sections are not designed to support body weight; fixers must work from an independent support system.

#### 8. Exposure control / personal protection

Respiratory Use in a well ventilated area. Wear approved respiratory equipment when flame cutting or grinding.  
Skin Wear cut resistant gloves, suitable overalls and footwear when handling sections.  
Eye If there is a risk of material entering the eye, wear eye protection to BS EN 166.

#### 9. Physical and chemical properties

Appearance Metal sections in various lengths, thickness and formation.  
Odour Paraffin/oil (protective coating).

#### 10. Stability and reactivity

Stable under normal conditions but when subjected to high temperatures fumes are produced.

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### 11. Toxicology information

Inhalation	Dry grinding or machining may produce dust of the same composition as the coating and base metal. Flame cutting may produce fumes containing oxides of zinc and iron, and also breakdown products of protective coating. Potential effects health include metal fume fever, a condition similar to influenza.
Skin contact	Prolonged and repeated contact may cause irritation.
Eye contact	None in normal use.
Ingestion	Not applicable.

### 12. Ecological information

Stable product with no known adverse environmental effects.

### 13. Disposal consideration

Dispose at an authorised metal recycling facility in accordance with local waste management licensing regulations.

### 14. Transport information

Not classified as hazardous for transportation.

### 15. Regulatory information

Not classified under the CHIP regulations.

### 16. Other information

#### Note to User:

This Product Data Sheet does not constitute a workplace risk assessment for COSHH.

There are a number of situations where the approach to manual handling of Gyproc products should be considered. For further guidance, please refer to the Manual Handling Section of the WHITE BOOK, or contact Gyproc technical department.

Gyproc reserves the right to revise product specifications without notice. The information in this document was correct to the best of our knowledge at the time of publication. It is the user's responsibility to ensure that it remains current prior to use. The information in this document is for guidance only and should not be read in isolation. Users should read and familiarize themselves with all the information contained in this document and ensure that they are fully conversant with the products and systems being used, before subsequent specification or installation.

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Date of previous version: First Edition  
Literature code 0018 – DS – 006

