

Gypframe[®] X Metal Profiles

Technical & Safety Datasheet



GYPFRAME® X METAL PROFILES

TECHNICAL DATASHEET



INTRODUCTION

This datasheet is designed to provide a range of technical & HSE data, including our manufacturing processes and standards, how to use Gypframe® X, complete product list with dimensional properties and health & safety precautions. For any further information please contact us on **800 GYPROC (497762)** or at **www.gyproc.ae**

Characteristics

Gypframe® X profiles are designed for use in GypWall™ X systems and are cold roll formed from DX51D + Z275, SS340 + Z275, SS50 + Z275 or S350GD + Z275.

Gypframe® X components comprise a range of cold-formed structural sections, bracing straps and brackets. They are assembled on-site in accordance with the design drawings. The components are used to form Steel Framing System (SFS) walls such as infill facades, curtain walls and high bay walls.

Protective Coating

All Gypframe® X metal components are available with standard zinc coating of Z275.

Standards

Gypframe® X metal products are produced to the following manufacturing standards :

EN 10346:2015 ASTM A653

All Gyproc® system solutions listed in the Middle East 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

For full information on the manual handling of Gyproc® systems please refer to the WHITE BOOK. For health and safety guidance, handling, storage information for our Gypframe® X profiles, please refer to the Health & Safety section of this data sheet. All literature is available to download from **www.gyproc.ae**

Recycled Content

Gypframe® X metal components are produced using steel manufactured by major world producers who use minimum 25% recycled ferrous scrap in producing the steel. Out of this 25% ferrous scrap:

- 75% is post-consumer recycled content
- 25% is pre-consumer recycled content

100% of Gypframe® X components are recyclable.

Fixing

For internal face of the system, Gyproc® Jack-Point Screws should be used for fixing Gyproc® plasterboard to Gypframe® X metal, with the exception of Gyproc Habito® plasterboard which should be fixed using Gyproc Habito® Jack-Point Screws. Screw length should be based on board thickness and reaching a minimum of 10mm penetration into the metal framing.

For external face of the system, Glasroc® X Screws should be used for fixing Glasroc® X boards to Gypframe® X metal components up to 2.3mm metal thickness.

Example for internal face

Gyproc® plasterboard	Gyproc® Jack-Point Screws size in mm				
1 x 12.5mm	25	35	42	55	75
1 x 15mm	25	35	42	55	75
2 x 12.5mm	25	35	42	55	75
2 x 15mm	25	35	42	55	75
3 x 12.5mm	25	35	42	55	75
3 x 15mm	25	35	42	55	75
4 x 12.5mm	25	35	42	55	75
4 x 15mm	25	35	42	55	75

Example for external face

Gyproc® plasterboard	Glasroc® X Screws size in mm	
1 x 12.5mm Glasroc® X board	25	42
Inner 15mm Gyproc® plasterboard + outer 12.5mm Glasroc® X board	25	42

Refer to Gyproc® Screws datasheet for additional information

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Understanding Gypframe® X

The naming of Gypframe® X metal profiles follows a relatively simple nomenclature where the first 2 or 3 digits of a code refer to the component width, the letters refer to the type of metal profile, and the last 2 digits, the gauge or metal thickness in mm. Several examples are listed in the table below. Further information including descriptions, weights and dimensions are on the following pages.

Gypframe® X component			Description
Width	Type	Gauge	
100	XS	12	Stud 100mm Stud with 1.2mm gauge
129	XC	15	Channel 129mm Channel with 1.5mm gauge
204	XDC	20	Deep Channel 204mm Deep Channel with 2mm gauge
50	XFC	30	Fixing Cleat 50mm Fixing Cleat with 3mm gauge
100	XFB	30	Fixing Bracket 100mm Fixing Bracket with 3mm gauge
38	LB	20	Lateral Bracing 38mm Lateral Bracing in 2.0mm gauge

Gypframe® X 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 5.



Product code	Width mm	Flange mm	Gauge thickness mm [#]	Linear metre weight kg
50 XS 10	50	50	1.0	1.280
75 XS 10	75	50	1.0	1.480
100 XS 10	100	60	1.0	1.890
125 XS 10	125	60	1.0	2.090
150 XS 10	150	60	1.0	2.280
175 XS 10	175	60	1.0	2.480
200 XS 10	200	60	1.0	2.670
250 XS 10	250	60	1.0	3.070
275 XS 10	275	60	1.0	3.260
300 XS 10	300	60	1.0	3.460

[#] Available in gauge from 1.0mm upto 3.0mm, except for 50 XS and 75 XS which are available from 1.0mm upto 1.5mm
Customized lengths based on project requirement

Gypframe® X Channels and Deep Channels

These products are used for retaining Gypframe® X studs at floor, using the bottom channel and at ceiling junctions, using the head channel. These two versions are differing on the flange size.

Gypframe® X Channels

They are used at floor level where shorter flange is suitable.



Product code	Width mm	Flange mm	Gauge thickness mm [#]	Linear metre weight kg
54 XC 12	54	40	1.2	1.230
79 XC 12	79	40	1.2	1.470
104 XC 12	104	40	1.2	1.700
129 XC 12	129	40	1.2	1.940
154 XC 12	154	40	1.2	2.170
179 XC 12	179	40	1.2	2.410
204 XC 12	204	40	1.2	2.640
254 XC 12	254	40	1.2	3.110
279 XC 12	279	40	1.2	3.350
304 XC 12	304	40	1.2	3.580

[#] Available in gauge from 1.0mm upto 3.0mm, except for 54 XC and 79 XC which are available from 1.0mm upto 1.5mm
Customized lengths based on project requirement

Gypframe® X Deep Channel

With a longer flange, Gypframe® X Deep Channels are fixed at head level, giving more space to allow head deflection. Profile drawings are on page 5.



Product code	Width mm	Flange mm	Gauge thickness mm [#]	Linear metre weight kg
54 XDC 12	54	50	1.2	1.420
79 XDC 12	79	50	1.2	1.660
104 XDC 12	104	70	1.2	2.270
129 XDC 12	129	70	1.2	2.500
154 XDC 12	154	70	1.2	2.740
179 XDC 12	179	70	1.2	2.970
204 XDC 12	204	70	1.2	3.210
254 XDC 12	254	70	1.2	3.670
279 XDC 12	279	70	1.2	3.910
304 XDC 12	304	70	1.2	4.140

[#] Available in gauge from 1.0mm upto 3.0mm, except for 54 XDC and 79 XDC which are available from 1.0mm upto 1.5mm
Customized lengths based on project requirement

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Gypframe® X Deep Channels - Slotted

Gypframe® Slotted Deep Channels are designed to use at the head of wall to protect the integrity of walls during building movements by absorbing vertical movement caused by expansion and contraction, without using any additional accessory. Profile drawings are on page 5.



Product code	Width mm	Flange mm	Gauge thickness mm [#]	Linear metre weight kg
104 XDC 12 - Slotted	104	70	1.2	2.070
129 XDC 12 - Slotted	129	70	1.2	2.300
154 XDC 12 - Slotted	154	70	1.2	2.540
179 XDC 12 - Slotted	179	70	1.2	2.770
204 XDC 12 - Slotted	204	70	1.2	3.000
254 XDC 12 - Slotted	254	70	1.2	3.470

Available in gauge from 1.0mm upto 3.0mm
Customized lengths based on project requirement

Gypframe® X Fixing Cleats

Fixing Cleats are used in case of an infill façade system to link Gypframe X studs to the soffit. Slotted, they are designed to accommodate deflection of the structural substrate.



Product description	Width mm	Gauge thickness mm	Weight per piece kg
50 XFC 30	50	3.0	0.140
75 XFC 30	75	3.0	0.170

Gypframe® X Fixing Brackets

Fixing Brackets are used in case of a curtain wall and cladding façade systems to link the frame to the structure slab edge and background. Slotted, they are designed to accommodate deflection of the structural substrate.



Product description	Depth mm	Gauge thickness mm	Weight per piece kg
50 XFB 30	50	3.0	0.330
75 XFB 30	75	3.0	0.390
100 XFB 30	100	3.0	0.450
150 XFB 30	150	3.0	0.560
200 XFB 30	200	3.0	0.680
250 XFB 30	250	3.0	0.800
275 XFB 30	275	3.0	0.860
300 XFB 30	300	3.0	0.910

Gypframe® X Lateral Bracings

Based on structural calculations, Lateral Bracings are sometimes required to provide additional strength to the system. They can also be used in replacement of Sliding Clips to allow head deflection by fixing the studs into them.



Product description	Width mm	Gauge thickness* mm	Linear metre weight kg
38 LB 12	38	1.2	0.360
100 LB 12	100	1.2	0.940

* Also available in gauge 1.5mm and 2mm

APPLICATION & INSTALLATION

General

It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipment, etc. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

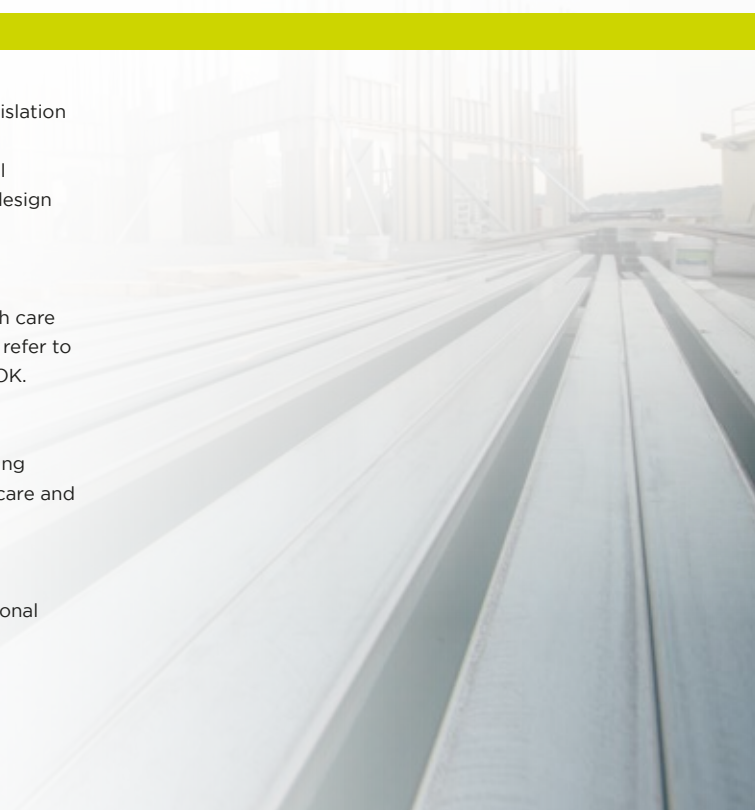
Handling

Manual offloading of this product should be carried out with care to avoid unnecessary strain. For further information, please refer to the Manual Handling section of the Middle East WHITE BOOK.

Cutting

This product may be cut using an angle grinder. When cutting metal sections, power and hand tools should be used with care and in accordance with the manufacturers' recommendations.

Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used.



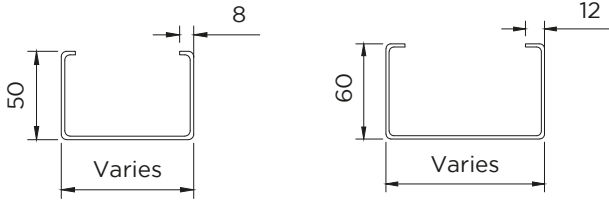
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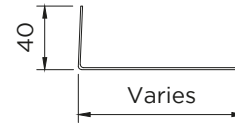
Gypframe® X Studs



50mm and 75mm

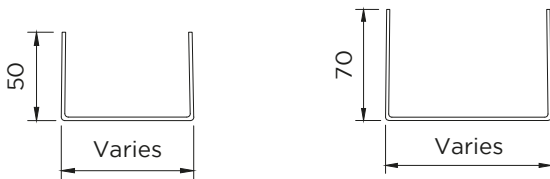
From 100mm to 300mm

Gypframe® X Channels



From 54mm to 304mm

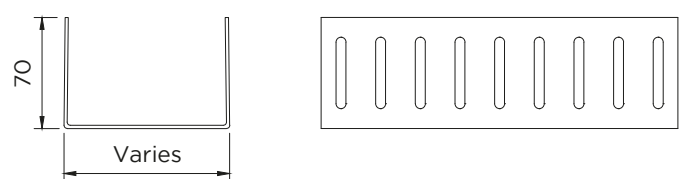
Gypframe® X Deep Channels



54mm and 79mm

From 104mm to 304mm

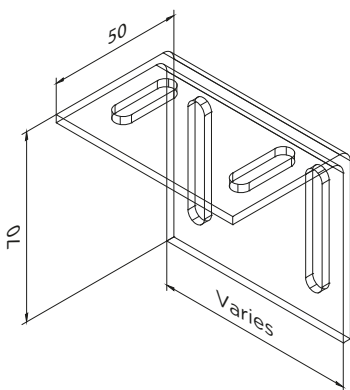
Gypframe® X Deep Channels - Slotted



From 104mm to 254mm

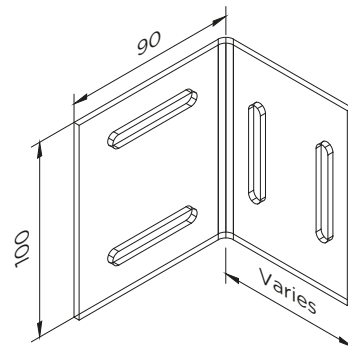
Side View

Gypframe® X Fixing Cleat



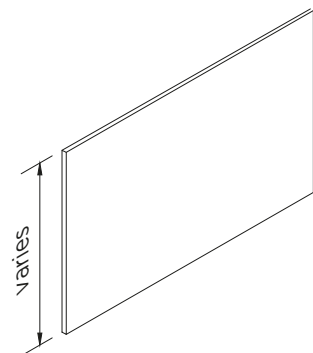
50mm and 75mm

Gypframe® X Fixing Bracket



From 50mm to 300mm

Gypframe® X Lateral Bracing



38mm and 100mm

HEALTH & SAFETY

1. Identification of the substances/preparation and company

Gypframe® X metal sections

Supplier Saint-Gobain Gyproc Emirates Industries L.L.C
 ICAD 1, Mussafah
 Abu Dhabi
 United Arab Emirates
 P.O. Box 38983
 Free Phone: 800 GYPROC (497762)
 E-Mail: gyproc-me@saint-gobain.com

Recommended uses: In conjunction with Gyproc plasterboards to form facade and high bay wall systems.

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 CLP. CLP 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 power cutting, grinding or drilling, irritant fumes or dust may be produced which can cause metal fume fever.

4. First aid measures

Eye contact P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical advice/attention.

Skin contact P264 - Wash hands thoroughly after handling.

Ingestion Not applicable.

Inhalation Not applicable.

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 P284 - Use only in well-ventilated areas. Wear eye / face protection. Face masks to EN 149 FFP2.

Skin P303 - Wear suitable protective clothing.

Eye P305 / P313 - Wear eye / face protection.
 Eye protection to BS EN 166.

9. Physical and chemical properties

Appearance Metal sections in various lengths, thicknesses 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. Recycling

Gypframe® X Metal components contain recycled content and can contribute to LEED NC v2.2 Credit MRc4: Recycled Content.

14. Disposal consideration

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

15. Transport information

Not classified as hazardous for transportation.

16. Regulatory information

Not classified under the CHIP regulations.

17. 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 Gyproc Middle East WHITE BOOK, or contact Gyproc technical department.



SpecSure is a unique 'off the shelf' warranty to end users that confirms Gyproc proprietary systems will perform to the parameters published in our current literature from the day they are installed.

SpecSure - a warranty for the future performance of your system.



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Second Edition (2.2)
Literature Code: 0302-DS-003

January 2022

