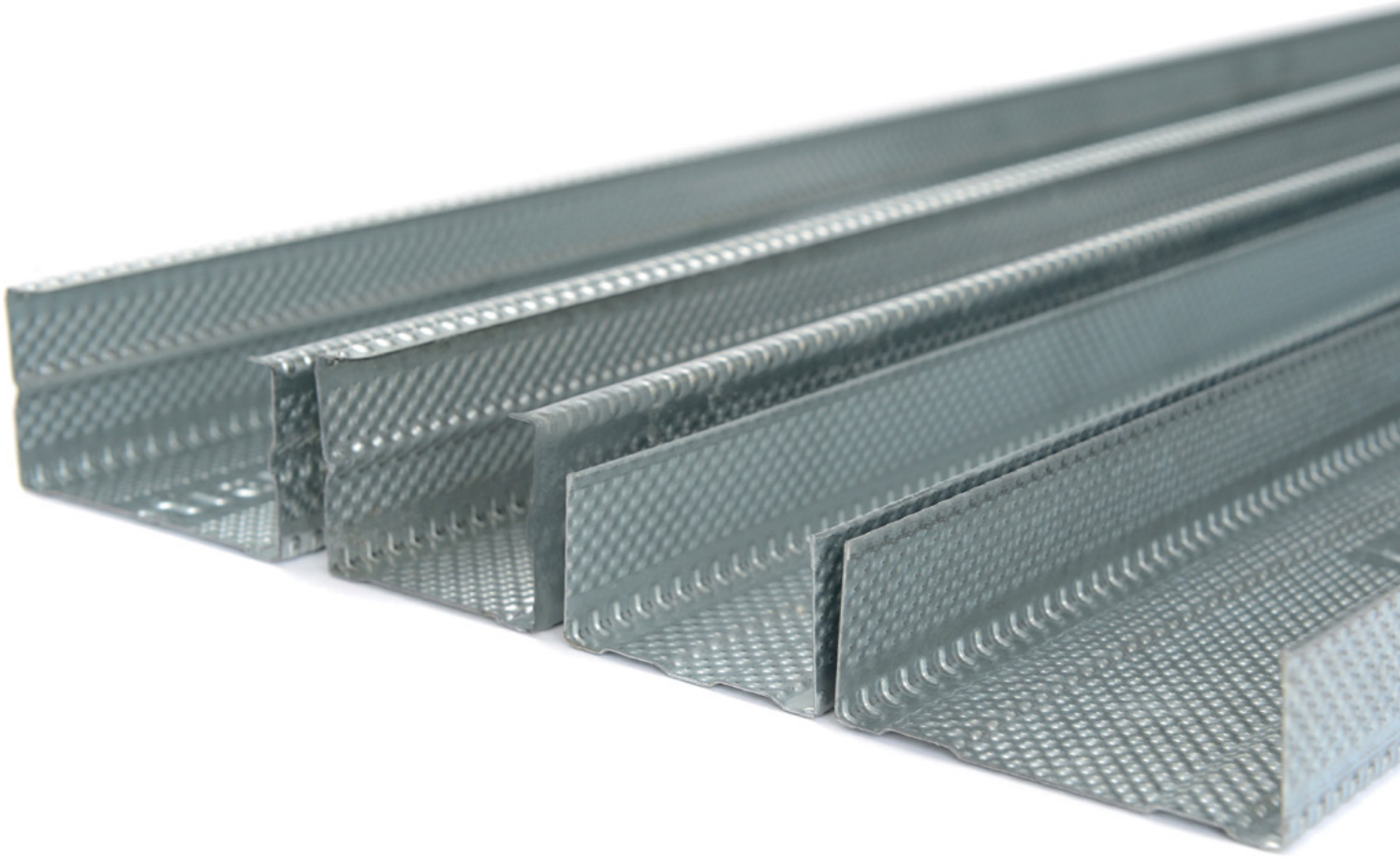
Gypframe profiles

Dimensional specifications



British Gypsum
SAINT-GOBAIN

Gypframe profiles

Dimensional specifications data sheet

Introduction

This data sheet contains the dimensional specification of the following Gypframe components – Gypframe Studs, Gypframe Channels, CasoLine MF, GypLyner, ShaftWall, GypFloor SILENT, GypWall RAPID dB Plus, Gypframe CurveLyner Channel, Gypframe Steel Angles and Gypframe Specialist Profiles.

Gypframe profiles are cold roll formed from DX51D + Z140 NA-C, utilizing the patented UltraSTEEL™[1] 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 British Gypsum 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* and are manufactured under a quality system independently audited and certified as conforming to *ISO 9001: 2008*. The *EN 14195: 2005* standard does not cover component design or system performance.

Do not assume products manufactured to this standard can be substituted, as system performance will be changed.

NB UltraSTEEL™ is a registered trade mark of Hadley Industries Overseas Holdings Limited.

All British Gypsum system solutions listed in The White Book and The Site Book are covered by SpecSure®, a lifetime system warranty designed to protect the integrity of British Gypsum specifications and deliver reliable performance, unrivalled technical support and peace of mind for everyone involved in the construction team. The SpecSure® warranty is invalid if you change any component, as this will affect the system performance.

General

Information on the installation and handling of British Gypsum systems and Gypframe profiles can be found in the The Site Book. For health and safety guidance, handling, storage information, please use the Gypframe Safety Data Sheet.

All literature is available to download from british-gypsum.com

Fixing

Either British Gypsum Wafer Head Drywall Screws or British Gypsum Wafer Head Jack-Point Screws should be used to fit two sections of metal together - see table below:

British Gypsum Wafer Head Drywall Screws	British Gypsum Wafer Head Jack-Point Screws
Metal-to-metal up to 0.79mm thick	Metal-to-metal greater than 0.80mm thick
'I' Stud framing up to 0.50mm thick	'I' Studs greater than 0.50mm thick

Either British Gypsum Drywall Screws or British Gypsum Jack-Point Screws should be used for fixing plasterboard to metal. Screw length should be based on board thickness and reaching a minimum of 10mm penetration into a metal stud.

Example: 2 x 15mm Gyproc WallBoard + stud gauge + 10mm = minimum 40mm British Gypsum Drywall Screw

British Gypsum Drywall Screws	British Gypsum Jack-Point Screws
Board-to-metal up to 0.79mm thick	Board-to-metal greater than 0.80mm thick
'I' Stud framing up to 0.50mm thick	'I' Studs greater than 0.50mm thick

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).

Example:

60I50

- Component width in mm - Example = 60mm
- Component type - Example = 'I' Stud
- Stud gauge - Example = 0.50mm

Gypframe sections

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 on page 8).

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. Service 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
48 S 50	48	0.50	2400, 2700, 3000, 3600, Bespoke	0.52
60 S 50	60	0.50	3000, 3600, Bespoke	0.53
70 S 50	70	0.50	2400, 2700, 3000, 3600, 4200, Bespoke	0.60
70 S 60	70	0.60	3600, 4200, Bespoke	0.67
92 S 50	92	0.50	3600, 4200, Bespoke	0.64
92 S 60	92	0.60	4200, Bespoke	0.81
92 S 10	92	1.00	3600, 4200, Bespoke	1.28
146 S 50	146	0.50	3000, 3600, 4200, Bespoke	0.93

Gypframe AcouStuds

These unique shaped studs are used for increased acoustic performance, with the profile absorbing sound as it passes through a wall. Gypframe AcouStuds can be used to upgrade the acoustic performance of 43mm, 70mm and 146mm wall systems without using insulation. The Gypframe AcouStud design includes sight lines for both board alignment and added profile strength. Gypframe Acoustuds have wider flange widths than Gypframe 'C' Studs, providing increased board fixing area.

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
43 AS 50	43	0.50	2395, 2695, Bespoke	0.58
70 AS 50	70	0.50	2400, 2700, 3000, 3600, 4200, Bespoke	0.75
92 AS 50	92	0.50	3600, 4200, Bespoke	0.75
146 AS 50	146	0.50	2700, 3000, 3600, Bespoke	1.03

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, GypLyner IWL, GypWall QUIET IWL and other GypWall systems where board fixing strength is paramount. Service 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
48 I 50	48	0.50	2700, 3000, Bespoke	0.70
60 I 50	60	0.50	2700, 3600, Bespoke	0.74
60 I 70	60	0.70	3600, 4200, Bespoke	0.97
70 I 50	70	0.50	3600, 4200, Bespoke	0.83
70 I 70	70	0.70	3600, 4200, Bespoke	1.19
92 I 90	92	0.90	3600, 5000, 6000, Bespoke	1.61
146 I 80	146	0.80	5000, 6000, Bespoke	1.74
146 TI 90	146	0.90	5000, 6000, Bespoke	0.94

Gypframe sections (continued)

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 (FEC) 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 on page 8).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
50 FEC 50	50	0.50	3600, Bespoke	0.44
62 FEC 50	62	0.50	3600, Bespoke	0.56
72 FEC 50	72	0.50	3600, Bespoke	0.53
94 FEC 50	94	0.50	3600, Bespoke	0.61
148 FEC 50	148	0.50	3600, Bespoke	1.83
50 DC 60	50	0.60	3600, Bespoke	1.70
62 DC 60	62	0.60	3600, Bespoke	1.75
72 DC 60	72	0.60	3600, Bespoke	0.80
94 DC 60	94	0.60	3600, Bespoke	1.17
148 DC 60	148	0.60	3600, Bespoke	1.36
50 EDC 70	50	0.70	3600, Bespoke	1.06
72 EDC 80	72	0.80	3600, Bespoke	1.31
94 EDC 70	94	0.70	3600, Bespoke	1.28
148 EDC 80	148	0.80	3600, Bespoke	1.75

Gypframe CurveLyner Channel

A patented version of Gypframe Extra Deep Flange Floor & Ceiling Channel with an innovative design to simplify the construction of curved walls to a minimum radius of 600mm (▶ Profile drawings on page 8).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
72 EDCL 80	72	0.80	2025, Bespoke	1.35

GypLyner 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 on page 10).

Product description	Width mm	Gauge mm	Available lengths mm / Box quantity	Linear metre weight kg
Gypframe GL1 Lining Channel	45	0.50	2400, 2700, 3000, 3600, Bespoke	0.42
Gypframe GL8 Track	21	0.50	3600	0.28
Gypframe MF10 Channel	50	0.55	2800	0.36
Gypframe GL2 Bracket	29	-	195 (100 per box)	7 (per box)
Gypframe GL3 Channel Connector	43	-	50 per box	1 (per box)
Gypframe GL5 Timber Connector	44	-	70 (200 per box)	2 (per box)
Gypframe GL6 Timber Connector	44	-	170 (100 per box)	2 (per box)
Gypframe GL9 Bracket	29	-	295 (100 per box)	5 (per box)
Gypframe GL10 GypLyner Steel Framing Clips	43	-	100 per box	3 (per box)
Gypframe GL11 GypLyner Anchors	-	-	100 per box	1 (per box)
Gypframe GL12 GypLyner Bracket	29	-	395 (100 per box)	8 (per box)

Gypframe sections (continued)

ShaftWall starter channels and accessories

This range of channels and compatible accessories is designed especially for the high performance ShaftWall system (▶ Profile drawings on pages 8 and 9).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe 60 SC 55 Starter Channel	60	0.55	3600, Bespoke	0.47
Gypframe 70 SC 70 Starter Channel	70	0.70	3600, 4200, Bespoke	0.69
Gypframe 92 SC 90 Starter Channel	92	0.90	5000, 6000, Bespoke	1.08
Gypframe 62 JC 70 'J' Channel	62	0.70	3600, Bespoke	0.94
Gypframe 146 TSC 90 Tabbed Starter Channel	146	0.90	5000, 6000, Bespoke	1.42
Gypframe G102 Retaining Channel	35	0.40	2400, Bespoke	0.21
Gypframe G105 Retaining Channel	64	0.45	2400, Bespoke	0.42
Gypframe G110 Retaining Channel	45	0.50	2400, Bespoke	0.33
Gypframe G108 Retaining Clips	48	-	100 per box	4 (per box)
Gypframe G109 Retaining Clips	102	-	100 per box	8 (per box)

CasoLine 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 on page 9).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe MF5 Ceiling Section	25	0.50	3600, Bespoke	0.47
Gypframe MF6 Perimeter Channel	28	0.50	3600	0.31
Gypframe MF7 Primary Support Channel	45	0.90	3600, Bespoke	0.50
Gypframe MF7C Curved Support Channel	15	0.90	3600, Bespoke	0.50
Gypframe MF8 Strap Hanger	25	0.60	25 metre coil	4.00 (per coil)
Gypframe FEA1 Steel Angle	25 x 25	0.50	2900	0.21
Gypframe MF9 Connecting Clip	94	2.65	200 per box	2 (per box)
Gypframe MF11 Nut and Bolt	25	6 x 12	200 per box	2 (per box)
Gypframe MF12 Soffit Cleat	27	1.60	100 per box	2 (per box)
Gypframe GAH1 Acoustic Hanger	30	-	35 (100 per box)	5 (per box)
Gypframe GAH2 Acoustic Hanger	30	-	70 (100 per box)	6 (per box)

GypFloor SILENT floor channels

Providing support for the GypFloor SILENT acoustic floor system, these channels come with an integral neoprene acoustic isolator (▶ Profile drawings on page 10).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe SIF1 Floor Channel	126	0.60	2000, Bespoke	1.00
Gypframe SIF2 Floor Channel	84	0.60	2000, Bespoke	0.70
Gypframe SIF4 Floor Channel	139	0.60	2000, Bespoke	1.20

Gypframe sections (continued)

GypWall RAPID dB Plus channels

Channels designed for use in conjunction with Gypframe Acoustuds to form the GypWall RAPID dB Plus housing partition system.
(▶ Profile drawings on page 8).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe GWR2 Nogging Channel	43	0.45	896	0.56
Gypframe GWR3 Floor & Ceiling Channel	45	0.50	2400	0.42

Fixing channels

Used for a variety of applications including cross bracing on twin frame wall systems and fixing of medium to heavy weight fittings.
Gypframe 99 FC 50 Fixing Channel: used for bracing twin frame wall systems and medium weight fixtures to *BS 5234*.
Gypframe Service Support Plate used for the installation of plywood within a partition cavity (▶ Profile drawings on page 11).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe 99 FC 50	90	0.50	2400	0.71
Gypframe Service Support Plate	106	0.60	130	0.10 (per plate)

Gypframe angles and specialist accessories

Widely used in framed construction to provide support, fixing and additional strength to wall, ceiling and encasement framing
(▶ Profile drawings on page 11).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe FEA1 Steel Angle	25 x 25	0.50	2900	0.21
Gypframe GA2 Steel Angle	25 x 25	0.70	3200	0.28
Gypframe GA3 Steel Angle	19 x 32	0.70	3200	0.34
Gypframe GA4 Steel Angle	25 x 50	0.70	3660	0.52
Gypframe GA5 Internal Fixing Angle	60 x 60	0.50	3600	0.53
Gypframe GA6 Splayed Angle	85 x 85	0.50	2400, 3600	0.67
Gypframe GAB3 Acoustic Brace	-	-	459 (25 per box)	8 (per box)
Gypframe G106 Skirting Plate	13	0.60	100 (100 per box)	0.33
Gypframe Security Sheet	1070	0.70	3000	20 (per sheet)
Gypframe SC1 Spacer Clip	-	-	100 per box	1 (per box)
Gypframe SC2 Spacer Clip	-	-	100 per box	3 (per box)

Gypframe sections (continued)

Board jointing components

A range of products used to support horizontal plasterboard joints where a wall is more than one board high and within deflection heads (▶ Profile drawings on page 11).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe GFS1 Fixing Strap	70	0.50	2400	0.29
Gypframe GFT1 Fixing 'T'	50	0.55	2400	0.29

Sound insulating bars

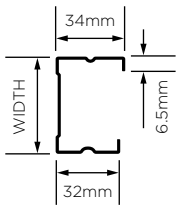
These specially engineered products are used to optimise acoustic performance in wall and ceiling systems (Gypframe RB1 Resilient Bar) and in ceilings, where they are also used to eliminate nail popping (Gypframe RB2 SureFix Bar).
(▶ Profile drawings on page 10).

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
Gypframe RB1 Resilient Bar	16	0.45	3000	0.33
Gypframe RB2 SureFix Bar	10	0.50	3000	0.23

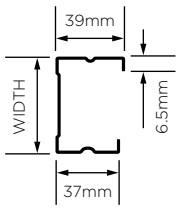
Gypframe profiles

Studs

Gypframe 'C' Studs

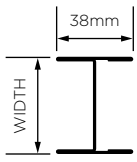


60 S 50, 70 S 60, 92 S 50, 92 S 60, 92 S 10, 146 S 50

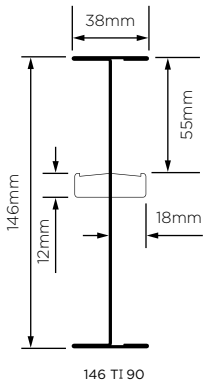


48 S 50, 70 S 50,

Gypframe 'I' Studs

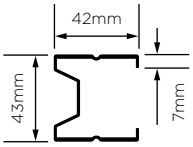


48 I 50, 60 I 50, 60 I 70, 70 I 50, 70 I 70, 92 I 90, 146 I 80

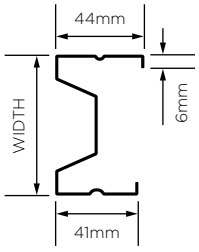


146 TI 90

Gypframe AcouStuds

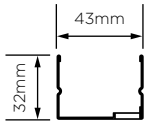


43 AS 50



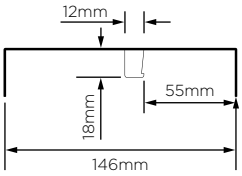
70 AS 50, 92 AS 50, 146 AS 50

Gypframe GWR2 Nogging Channel

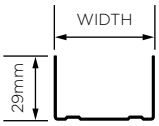


Channels

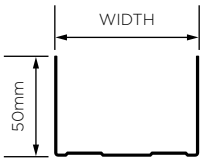
Gypframe Standard, Deep Flange and Extra Deep Flange Floor and Ceiling Channel



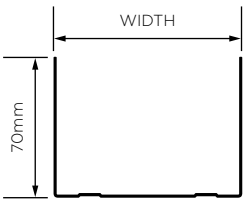
Tabbed Starter Channel
(146 TSC 90)



Folded Edge Standard 'FEC'
(50 FEC 50, 62 FEC 50, 72 FEC 50, 94 FEC 50, 148 FEC 50)

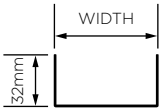


Deep Flange 'DC'
(50 DC 60, 62 DC 60, 72 DC 60, 148 DC 60, 94 DC 60)

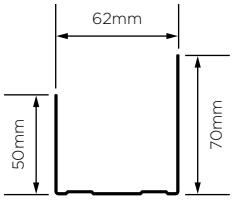


Extra Deep Flange 'EDC'
(50 EDC 70, 72 EDC 80, 94 EDC 60, 148 EDC 80)

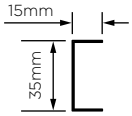
ShaftWall Channels



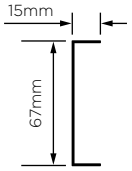
Starter Channel
(60 SC 55, 70 SC 70, 92 SC 90)



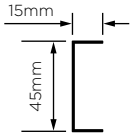
Head 'J'
(50/70mm deep flanges 62 JC 70)



G102 Retaining Channel
(60mm and 146mm 'I' studs - **ShaftWall**)

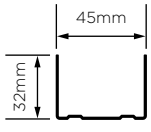


G105 Retaining Channel
(92mm 'I' studs - **ShaftWall**)



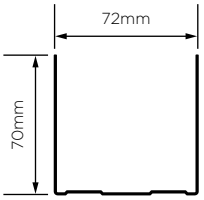
G110 Retaining Channel
(70mm 'I' studs - **ShaftWall**)

GypWall RAPID **dB** Plus Channels



Gypframe GWR3 Floor & Ceiling Channel
(45 C 50)

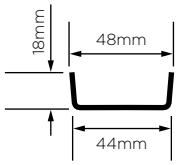
Gypframe 72 EDCL 80 CurveLyner Channel



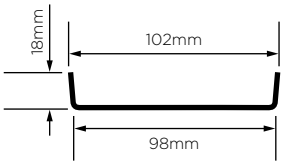
Gypframe profiles (continued)

Channels (continued)

Gypframe G108 Retaining Clip

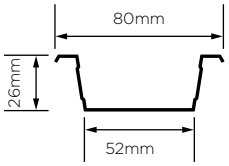


Gypframe G109 Retaining Clip



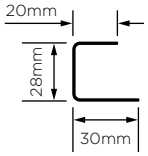
CasoLine MF Ceiling Sections

Gypframe MF5 Ceiling Section



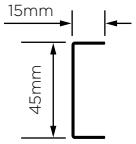
(0.50mm)

Gypframe MF6 Perimeter Channel Section



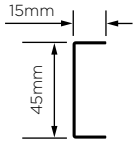
(0.50mm)

Gypframe MF7 Primary Support Channel



(0.90mm)

Gypframe MF7C Curved Support Channel

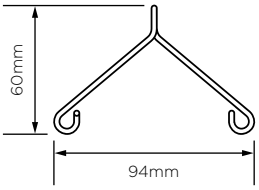


(0.90mm)

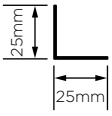
Gypframe MF8 Strap Hanger

(0.50mm)

Gypframe MF9 Connecting Clip

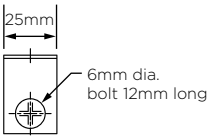


Gypframe FEA1 Steel Angle

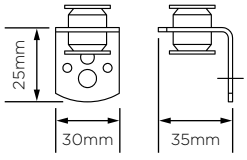


(0.5mm)

Gypframe MF11 Nut & Bolt

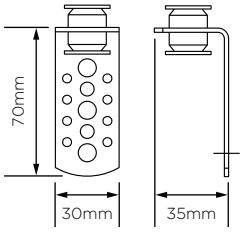


Gypframe GAH1 Acoustic Hanger



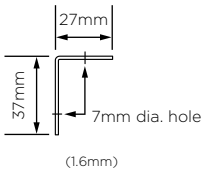
(1.5mm)

Gypframe GAH2 Acoustic Hanger



(1.5mm)

Gypframe MF12 Soffit Cleat

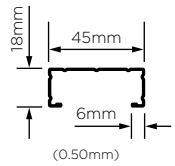


(1.6mm)

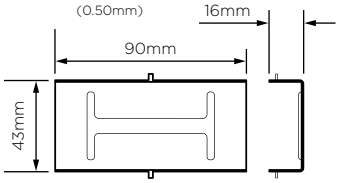
NB Bracketed figures indicate gauge.

GypLyner and GypFloor SILENT sections

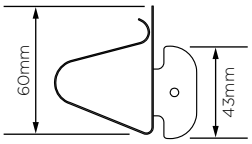
Gypframe GL1 Channel



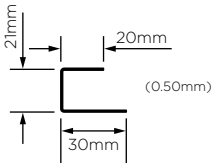
Gypframe GL3 Channel Connector



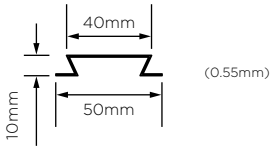
Gypframe GL10 Steel Framing Clip



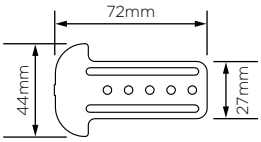
Gypframe GL8 Track



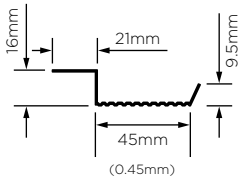
Gypframe MF10 Channel



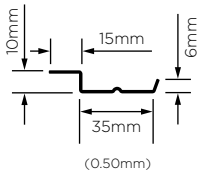
Gypframe GL5 Timber Connector



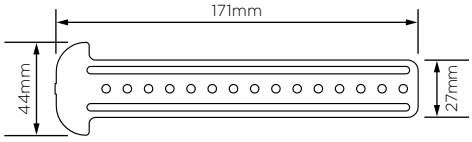
Gypframe RB1 Resilient Bar



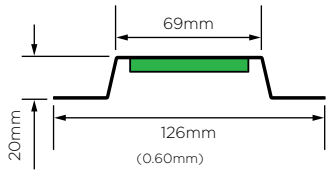
Gypframe RB2 SureFix Bar



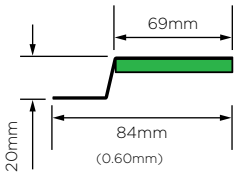
Gypframe GL6 Timber Connector



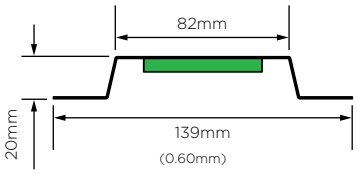
Gypframe SIF1 Floor Channel



Gypframe SIF2 Floor Channel

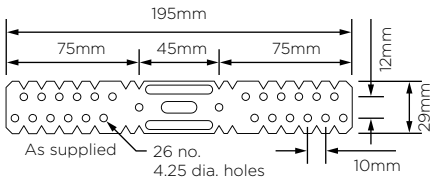


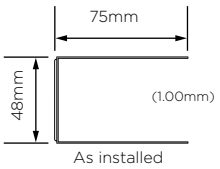
Gypframe SIF4 Floor Channel



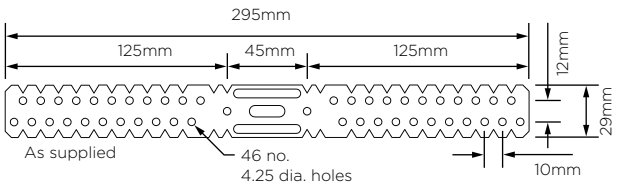
55mm x 6.25mm Neoprene Acoustic Isolator

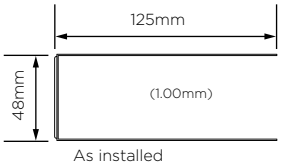
Gypframe GL2 Bracket



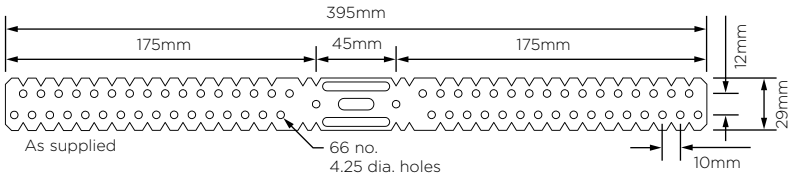


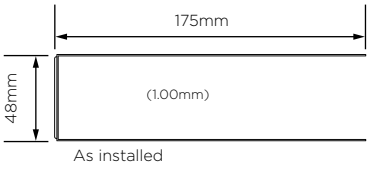
Gypframe GL9 Bracket





Gypframe GL12 Bracket



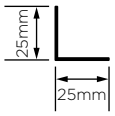


NB Bracketed figures indicate gauge.

Gypframe profiles (continued)

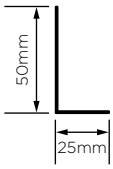
Steel angles

Gypframe FEA1 / GA2 Steel Angle



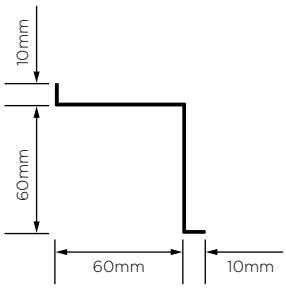
(0.5 / 0.7mm)

Gypframe GA4 Steel Angle



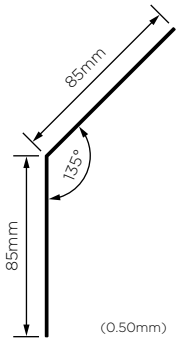
(0.7mm)

Gypframe GA5 Internal Fixing Angle



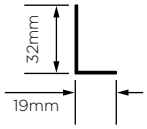
(0.50mm)

Gypframe GA6 Splayed Angle



(0.50mm)

Gypframe GA3 Steel Angle

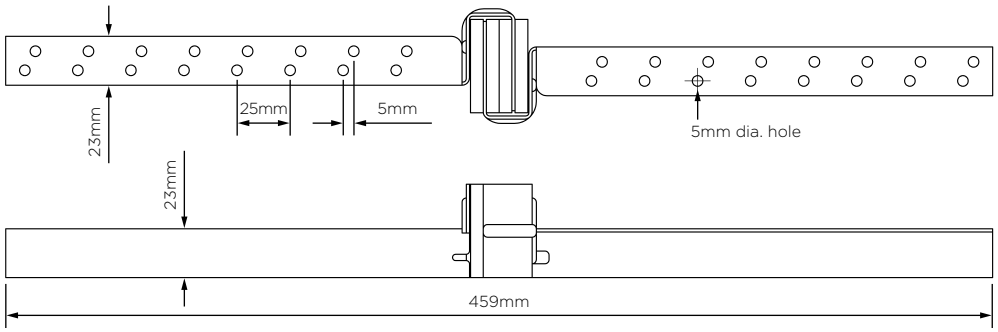


(0.7mm)

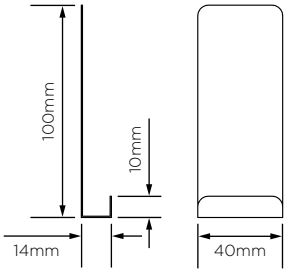
NB Bracketed figures indicate gauge.

Miscellaneous sections

Gypframe GAB3 Acoustic Brace

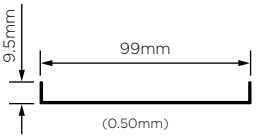


Gypframe G106 Skirting Plate



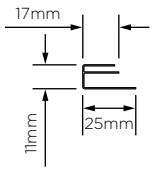
(0.60mm)

Gypframe 99 FC 50 Fixing Channel

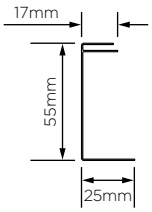


(0.50mm)

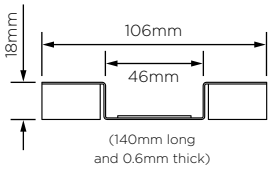
Gypframe SC1 Spacer Clip



Gypframe SC2 Spacer Clip

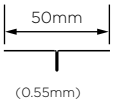


Gypframe Service Support Plate



(140mm long and 0.6mm thick)

Gypframe GTF1 Fixing T



(0.55mm)

Gypframe GFS1 Fixing Strap

NB Bracketed figures indicate gauge.

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