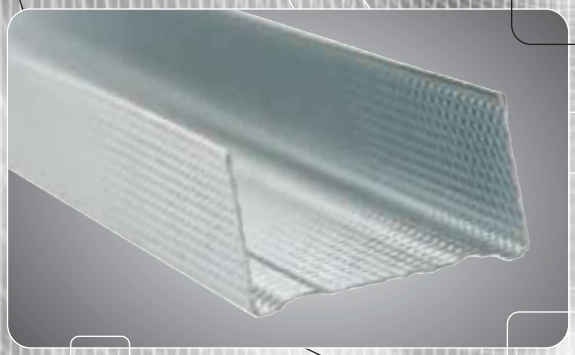


Gypframe profiles

Dimensional specifications

British Gypsum
SAINT-GOBAIN

Gypframe profiles

Dimensional specifications data sheet

Introduction

Characteristics

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: 2008* and are manufactured under a quality system independently audited and certified as conforming to *ISO 9001: 2008*. The *EN 14195: 2008* 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.

All British Gypsum system solutions listed in the **WHITE** BOOK and **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 **SITE** BOOK. For health and safety guidance, handling, storage information, please use the Gypframe Health and Safety datasheet. All literature is available to download from www.british-gypsum.com

Fixing

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

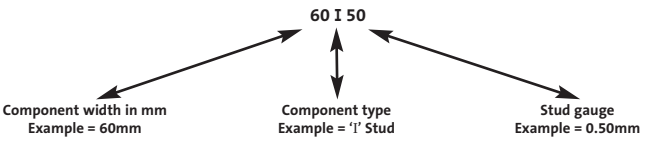
Wafer Head Drywall Screws	Wafer Head Jack-Point Screws
Metal-to-metal <0.8mm gauge	Metal-to-metal >0.8mm gauge
'I' Stud framing <0.6mm gauge	'I' Stud framing >0.6mm gauge

British Gypsum Drywall Screws, Jack-Point Screws or Rigidur Screws should be used for fixing plasterboard to Gypframe metal components. Screw length should be based on board thickness and reaching a minimum of 10mm penetration into the Gypframe metal stud. When fixing plasterboard to Gypframe RB1 Resilient Bar, ensure that the screw length used accommodates a minimum of 10mm penetration, without contact to the metal stud being made.

EXAMPLE:
2 x 15mm Gyproc WallBoard + stud gauge + 10mm = minimum 42mm British Gypsum Drywall Screw.

Drywall Screws	Jack-Point Screws
Metal-to-metal <0.8mm gauge	Metal-to-metal >0.8mm gauge
'I' Stud framing <0.6mm gauge	'I' Stud framing >0.6mm gauge

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).



[1] UltraSTEEL™ is a registered trade mark of Hadley Industries Overseas Holdings Limited.

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 7.

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
48 S 50	48	0.50	2400, 2700, 3000, 3600, Bespoke	0.46
60 S 50	60	0.50	3000, 3600, Bespoke	0.53
70 S 50	70	0.50	2400, 2700, 3000, 3600, 4200, Bespoke	0.54
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 patented profile absorbing sound as it passes through a wall. Gypframe AcouStuds can be used to upgrade the acoustic performance of 43mm, 70mm, 92mm 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	0.73
92 AS 50	92	0.50	3600, 4200, Bespoke	0.81
146 AS 50	146	0.50	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. 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
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 profiles

Dimensional specifications data sheet

Gypframe sections (continued)

Gypframe Folded Edge Standard, Deep Flange and Extra Deep Flange Floor & Ceiling channels

These products are used for retaining wall studs at floor and ceiling junctions. The Standard (FEC) channels incorporate folded edges to provide a safer working edge. Deep Flange (DC) and Extra Deep Flange (EDC) are available for partitions between 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 7.

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	0.48
72 FEC 50	72	0.50	3600, Bespoke	0.52
94 FEC 50	94	0.50	3600, Bespoke	0.61
148 FEC 50	148	0.50	3600, Bespoke	0.82
50 DC 60	50	0.60	3600, Bespoke	0.70
62 DC 60	62	0.60	3600, Bespoke	0.75
72 DC 60	72	0.60	3600, Bespoke	0.80
94 DC 60	94	0.60	3600, Bespoke	0.90
148 DC 60	148	0.60	3600, Bespoke	1.16
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 7.

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
72 EDCL 80	72	0.80	2000, Bespoke	1.35

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 8.

Product description	Depth mm	Gauge mm	Available lengths mm	Linear metre weight kg
MF5 Ceiling Section	25	0.50	3600, Bespoke	0.47
MF6 Perimeter Channel	28	0.50	3600	0.31
MF7 Primary Support Channel	45	0.90	3600, Bespoke	0.50
MF7C Curved Support Channel	15	0.90	3600, Bespoke radius	0.50
MF8 Strap Hanger	25	0.60	25 metre coil	4.00 (per coil)

Gypframe sections (continued)

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 9.

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
GL1 Lining Channel	45	0.50	2400, 2700, 3000, 3600, Bespoke	0.42
GL8 Track	21	0.50	3600	0.28
MF10 Channel	50	0.55	2800	0.36

ShaftWall starter channels

This range of channels and compatible accessories is designed specifically for the high performance **ShaftWall** system. Profile drawings on page 7.

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
60 SC 55 Starter Channel	60	0.55	3600, Bespoke	0.47
62 JC 70 'J' Channel	62	0.70	3600, Bespoke	0.94
70 SC 70 Starter Channel	70	0.70	3600, 4200, Bespoke	0.69
92 SC 90 Starter Channel	92	0.90	5000, 6000, Bespoke	1.08
146 TSC 90 Tabbed Starter Channel	146	0.90	5000, 6000, Bespoke	1.42
G102 Retaining Channel	35	0.40	2400, Bespoke	0.21
G105 Retaining Channel	64	0.45	2400, Bespoke	0.42
G110 Retaining Channel	45	0.50	2400, Bespoke	0.33

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 9.

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

GypWall RAPID dB Plus studs and channels

These studs, channels and accessories are designed to be used together to form the **GypWall RAPID dB Plus** housing partition system. Profile drawings on pages 7 and 9.

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

Gypframe profiles

Dimensional specifications data sheet

Gypframe sections (continued)

Gypframe 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*[1]. Gypframe Service Support Plate: used for the installation of plywood within a partition cavity. Profile drawings on page 10.

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

[1] *BS 5234* defines light, medium and heavy weight fixtures.

Gypframe angles

Widely used in framed construction to provide support, fixing and additional strength to wall, ceiling and encasement framing. Profile drawings on page 10.

Product description	Width mm	Gauge mm	Available lengths mm	Linear metre weight kg
FEA1 Steel Angle	25 x 25	0.50	2900	0.21
GA2 Steel Angle	25 x 25	0.70	3200	0.28
GA3 Steel Angle	19 x 32	0.70	3200	0.34
GA4 Steel Angle	25 x 50	0.70	3660	0.52
GA5 Internal Fixing Angle	60 x 60	0.50	3600	0.53
GA6 Splayed Angle	85 x 85	0.50	2400, 3600	0.67

Gypframe 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 10.

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

Gypframe sound insulating bars

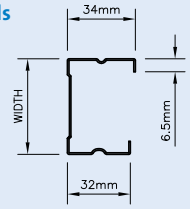
These specially engineered products are used to optimise acoustic performance in wall and ceiling systems (RB1) and in ceilings, where they are also used to eliminate nail popping (RB2). Profile drawings on page 9.

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

Gypframe profiles

Studs

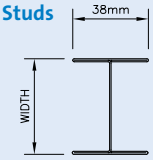
Gypframe 'C' Studs



'C' Studs

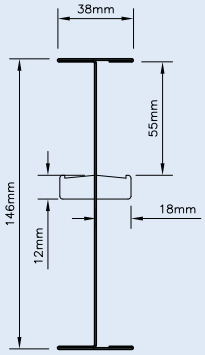
48 S 50 **60 S 50** **70 S 50**
70 S 60 **92 S 50** **92 S 60**
92 S 10 **146 S 50**

Gypframe 'I' Studs



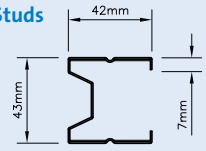
'I' Studs

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

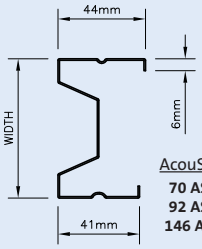


Tabbed 'I' Stud
146 TI 90

Gypframe AcouStuds

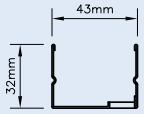


AcouStud
43 AS 50



AcouStuds
70 AS 50
92 AS 50
146 AS 50

Nogging Channel



GWR2 Nogging

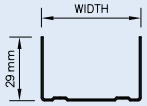
Gypframe metal components - understanding the codes

Note: 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.

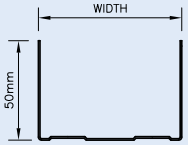
Examples: **60 S 50** refers to **60**mm wide, C shaped **Stud** with a metal thickness of 0.**50**mm. **70 I 70** refers to **70**mm wide, **I** shaped stud with a metal thickness of 0.**70**mm.

Channels

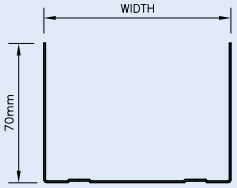
Gypframe Folded Edge Standard, Deep Flange and Extra Deep Flange



Folded Edge Standard 'C' Channel
50 FEC 50 **62 FEC 50** **72 FEC 50**
94 FEC 50 **148 FEC 50**

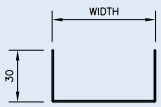


Deep Flange 'DC' Channel
50 DC 60 **62 DC 60** **94 DC 60**
72 DC 60 **148 DC 60**

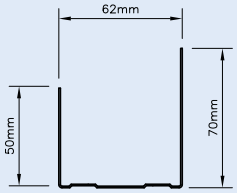


Extra Deep Flange 'EDC' Channel
50 EDC 70 **72 EDC 80**
94 EDC 70 **148 EDC 80**

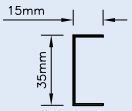
ShaftWall Channels



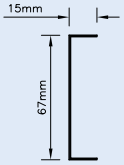
Starter Channels
60 SC 55 **70 SC 70** **92 SC 90**



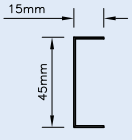
Head 'J' Channel
50/70mm deep flanges
62 JC 70



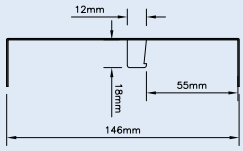
Retaining Channel
60mm & 146mm
'I' studs - ShaftWall
G102



Retaining Channel
92mm 'I' studs
- ShaftWall
G105

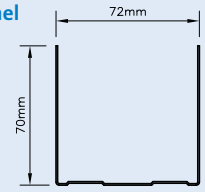


Retaining Channel
70mm 'I' studs
- ShaftWall
G110



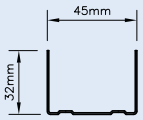
Tabbed Starter Channel
146 TSC 90

Gypframe CurveLyner Channel



CurveLyner Channel
72 EDCL 80

GypWall RAPID dB Plus Channel



GWR3 Floor & Ceiling Channel
45 C 50

Gypframe metal components - understanding the codes

Note: 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.

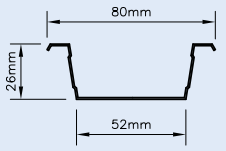
Examples: **50 FEC 50** refers to **50**mm wide **Folded Edge** Standard **Channel** with a metal thickness of 0.**50**mm. **72 EDC 80** refers to **72**mm wide **Extra Deep** Flange **Channel** with a metal thickness of 0.**80**mm.

Gypframe profiles

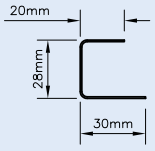
Dimensional specifications data sheet

Gypframe profiles (continued)

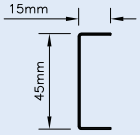
CasoLine MF ceiling sections & accessories



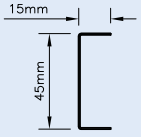
Ceiling Section (0.50mm)
MF5



Perimeter Channel (0.50mm)
MF6

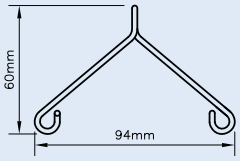


Primary Support Channel (0.90mm)
MF7

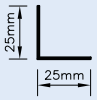


Curved Support Channel (0.90mm)
MF7C

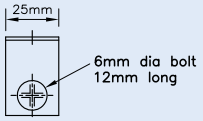
Strap Hanger (0.50mm)
MF8



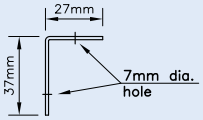
Connecting Clip
MF9



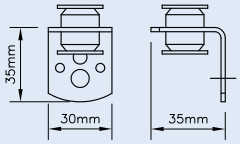
Steel Angle (0.50mm)
FEA1



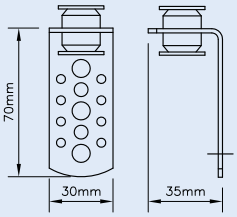
Nut & Bolt
MF11



Soffit Cleat (1.6mm)
MF12



Acoustic Hanger (1.5mm)
GAH1

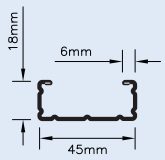


Acoustic Hanger (1.5mm)
GAH2

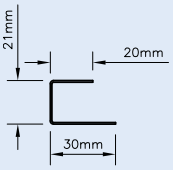
NB Bracketed figures indicate gauge.

Gypframe profiles (continued)

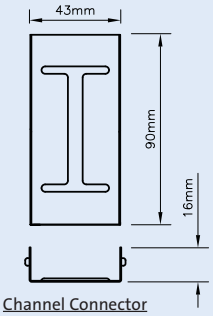
GypLyner and GypFloor SILENT sections



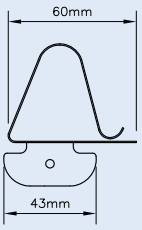
Channel
(0.50mm)
GL1



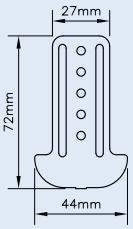
Track
(0.50mm)
GL8



Channel Connector
(0.50mm)
GL3

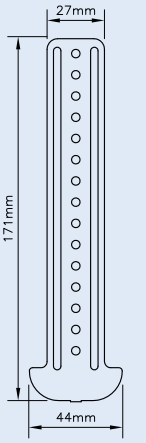


Framing Clip
GL10

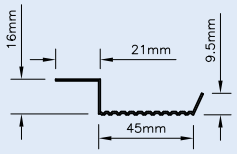


GL5 Timber Connector

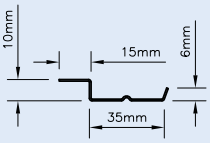
Timber Connector
GL5



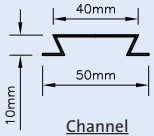
Timber Connector
GL5



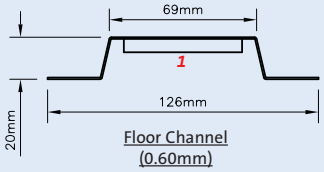
Resilient Bar
(0.45mm)
RB1



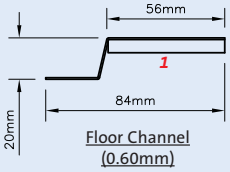
SureFix Bar
(0.50mm)
RB2



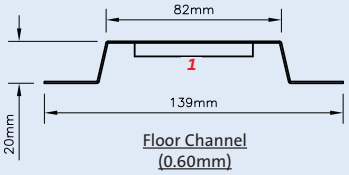
Channel
(0.55mm)
MF10



Floor Channel
(0.60mm)
SIF1



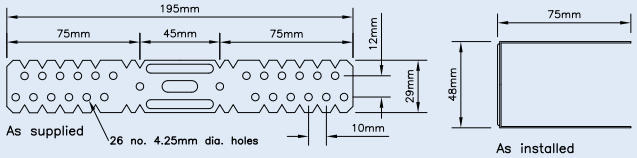
Floor Channel
(0.60mm)
SIF2



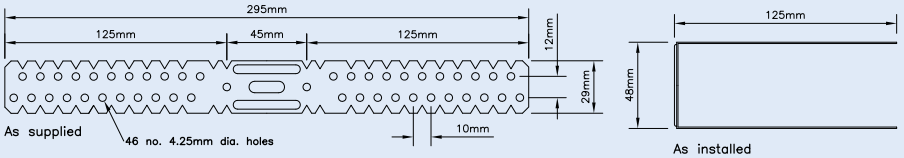
Floor Channel
(0.60mm)
SIF4

1 55mm x 6.25mm Neoprene Acoustic Isolator.

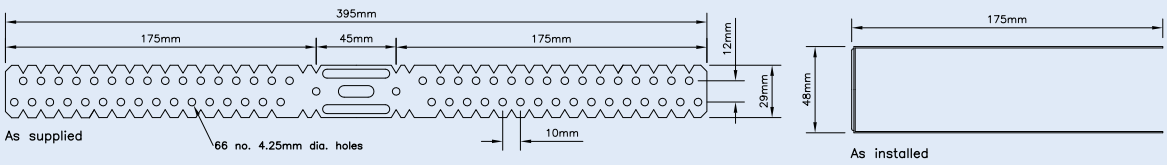
Bracket
(1.00mm)
GL2



Bracket
(1.00mm)
GL9



Bracket
(1.00mm)
GL12



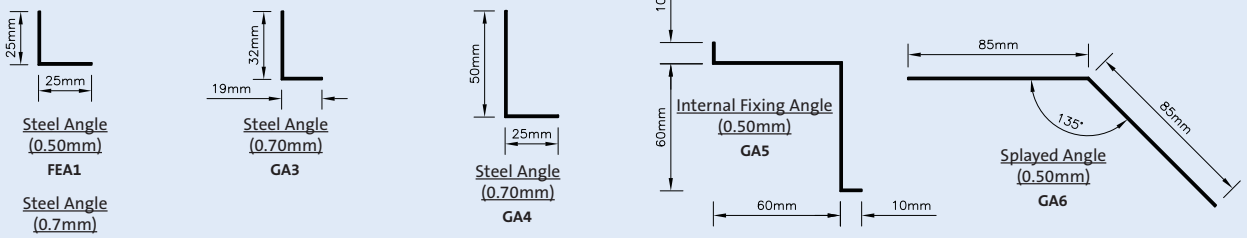
NB Bracketed figures indicate gauge.

Gypframe profiles

Dimensional specifications data sheet

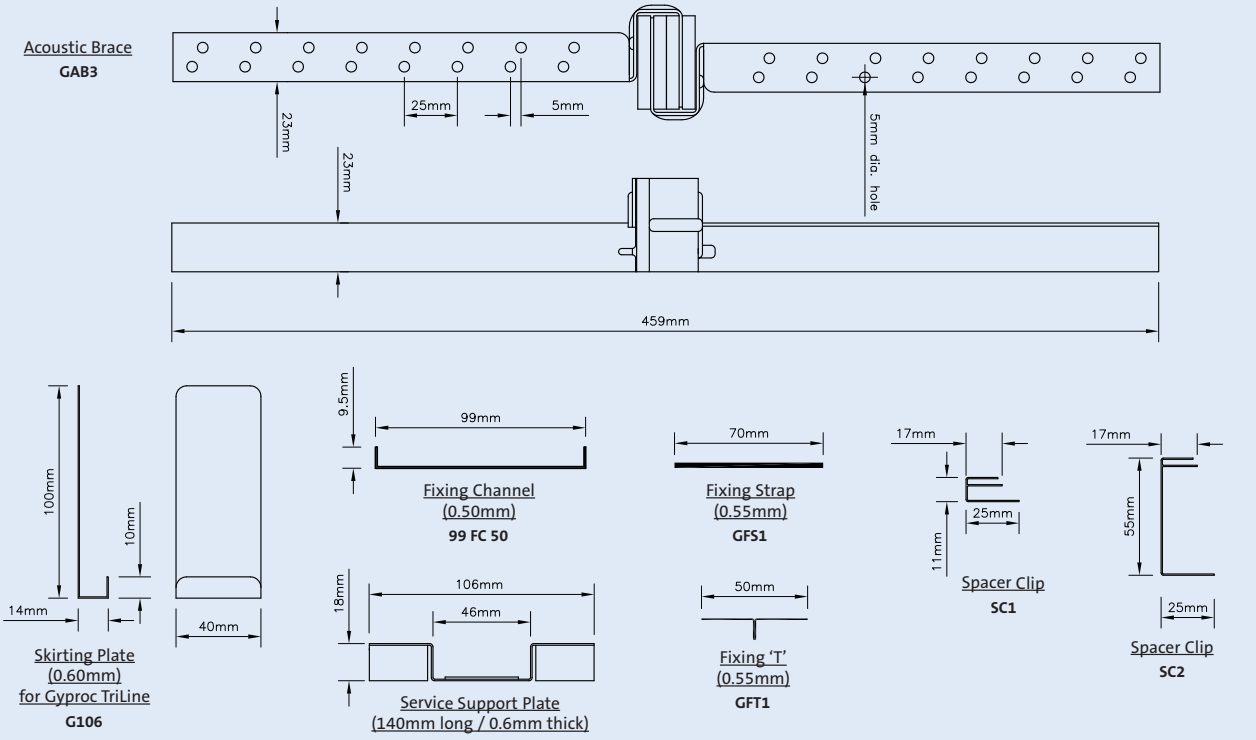
Gypframe profiles (continued)

Steel Angles



NB Bracketed figures indicate gauge.

Miscellaneous sections



NB Bracketed figures indicate gauge.

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