Drywall Grid System Technical Guide Wall Systems

Armstrong® CEILING SOLUTIONS

DRYWALL GRID SYSTEM

Drywall Grid Systems

Features and Benefits

Armstrong Drywall Grid is fast and easy to install and an economical alternative to TCR and Furring Channel construction.

Applications

Armstrong Drywall Grid Systems offer flexible design solutions for:

- Flat and Curved Ceilings
- Bulkheads (Multiple Step and Curved)
- Transitions to Acoustical Ceilings
- Margins
- Perimeters
- Walls

Features

- **PeakForm**
  Patented profile increases strength and stability for improved performance during installation
- **Knurled Face**
  Positive screw penetration into tees
- **SuperLock / XL²**
  Main Bar and Cross Runner clips are engineered for a strong secure connection and fast accurate alignment confirmed with an audible click; easy to remove and relocate
- **ScrewStop**
  Reverse hem prevents screw spin off on Tee face
- **38mm Wide Face**
  Main Bars and Cross Runners – easy installation of screw fixed plasterboard sheets
- **Rotary stitched Double Thickness Web**
  For additional torsional strength and stability
- **Simple Integration of Mechanical Services**

Benefits

- Reduced installation time
- Reduced labour costs
- Reduced material costs and wastage
- Low 38mm profile across one plane
- Material off cuts can be used for bracing and as an alternative suspension method

Physical Data

- Material: Hot dipped galvanised steel
- Recycled Content: 25%
- Surface Finish: Z275 galvanised
- Main Bar / Cross Runner Interface: Joggled ends
- End Detail:
  - Main Bar: staked-on SuperLock clip
  - Cross Runner: staked-on XL² clip

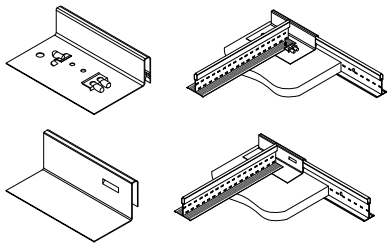
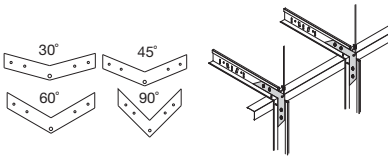
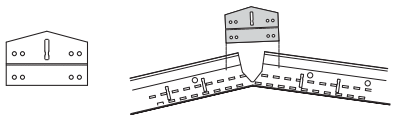
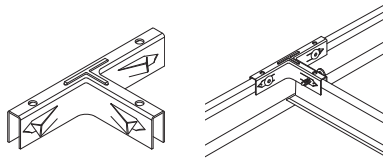
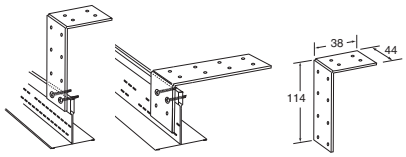
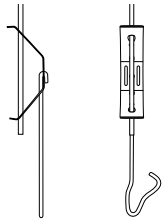
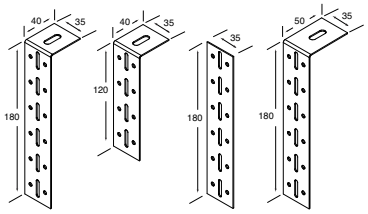
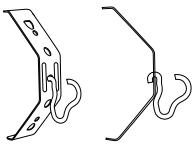
Code Compliance

Armstrong DGS is designed and manufactured to comply with the following standards:

AS/NZS 2785-2020: Suspended Ceilings – Design and Installation
AS/NZ 2589-2007: Gypsum linings – Application and finishing
AS/NZ 1397-2002: Steel sheet and strip – Hot-dipped zinc-coated or aluminium/zinc-coated
AS/NZ 4600-2005: Cold-formed steel structures
AS/NZ 1170-2002: Structural Design Actions

Grid Accessories

LEGEND: • Flat Ceilings, • Wall systems, • Curved Ceilings, • Quikstix Bulkheads, • ShortSpan

Application	Item Number	Product Description	Pcs / Bucket	Legend
		**Transition Clips with Locking Tabs** facilitate transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS tees		
	BPDW10LT	**For 10mm Plasterboard**	125	•
	BPDW13LT	**For 13mm Plasterboard**	125	•
	BPDW16LT	**For 16mm Plasterboard**	125	•
	ALDW13	**Suits 45/50 Top Hat for 13mm Plasterboard**	100	•
	BPDW30C BPDW45C BPDW60C BPDW90C	30, 45, 60 and 90 degree **Drywall Angle Clips** are used to create positive and secure angles for drywall and ceiling installations on either Main Bars or Cross Runners	250 250 250 250	• • • •
	BPRC2	**Radius Clip** is used to secure the Main Bar at the desired angle in curved ceiling applications. Includes a rout for Cross Runners installation	205	•
	BPGC3W	**3 Way Bite Clip** connects Intersecting Cross Runners at any point along a Main Bar or other Cross Runners	250	• • •
	BPQSUTC*	**Up Tight Clip** is used for Direct fix applications *Non stock item – lead time required	150	• • • •
	SCDGS	**Rod Hanging Clip** is the standard height adjustable suspension clip connecting from 2.5mm or 5mm rod to the DGS Main Bar	100	• • •
	DWDFC DWDFC120 DWDFFC180 DWDFC18050	**Direct Fix Clip** – 180mm L Shape **Direct Fix Clip** – 120mm L Shape **Direct Fix Clip** – 180mm Flat Extension **Direct Fix Clip** – 180mm L Shape with 50mm Head	100 100 100 100	• • • • • • • • • • • • • • •
	DGSSCS	**DGS Suspension Clip Small** is the standard height adjustable suspension clip connecting from 2.5mm or 5mm rod to the DGS Main Bar	100	• • •
	DGSSCTR	**DGS Threaded Rod Clip** is a suspension clip for 6mm Threaded Rod	100	• • •

Wall Systems

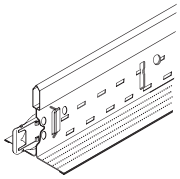
Armstrong DGS Wall Systems is a fast and easy solution for framing slim wall profiles and an economical alternative to Furring Channel battening.

Features

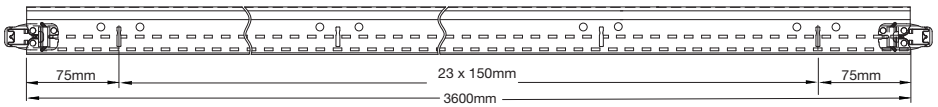
- Enables simple framing with fixing points at a maximum span of 1200mm centres.
- Easily self levels saving material and time.
- Enhances quality of finish and speed of construction by virtue of Wall Mouldings at the perimeter.

Components

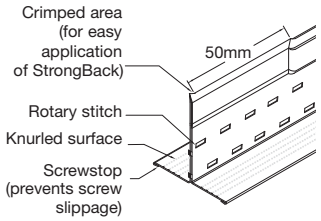
Main Bar: PeakForm 38 with Knurled Face and SuperLock Clip (bulb-to-bulb connection)



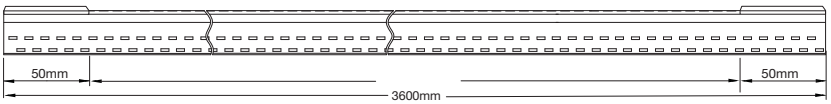
Item Number	Dimensions length (mm)	height (mm).	face (mm)	Rout Spacing mm	Content / Bundle / Weight pcs	lm	kg
BP 794033	3600	38	38	150cc	12	43.2	24



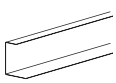
ShortSpan Tee with Knurled Face

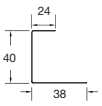


Item Number	Dimensions length (mm)	height (mm).	face (mm)	Rout Spacing mm	Content / Bundle / Weight pcs	lm	kg
BP 79S36	3600	38	38	–	12	43.2	20



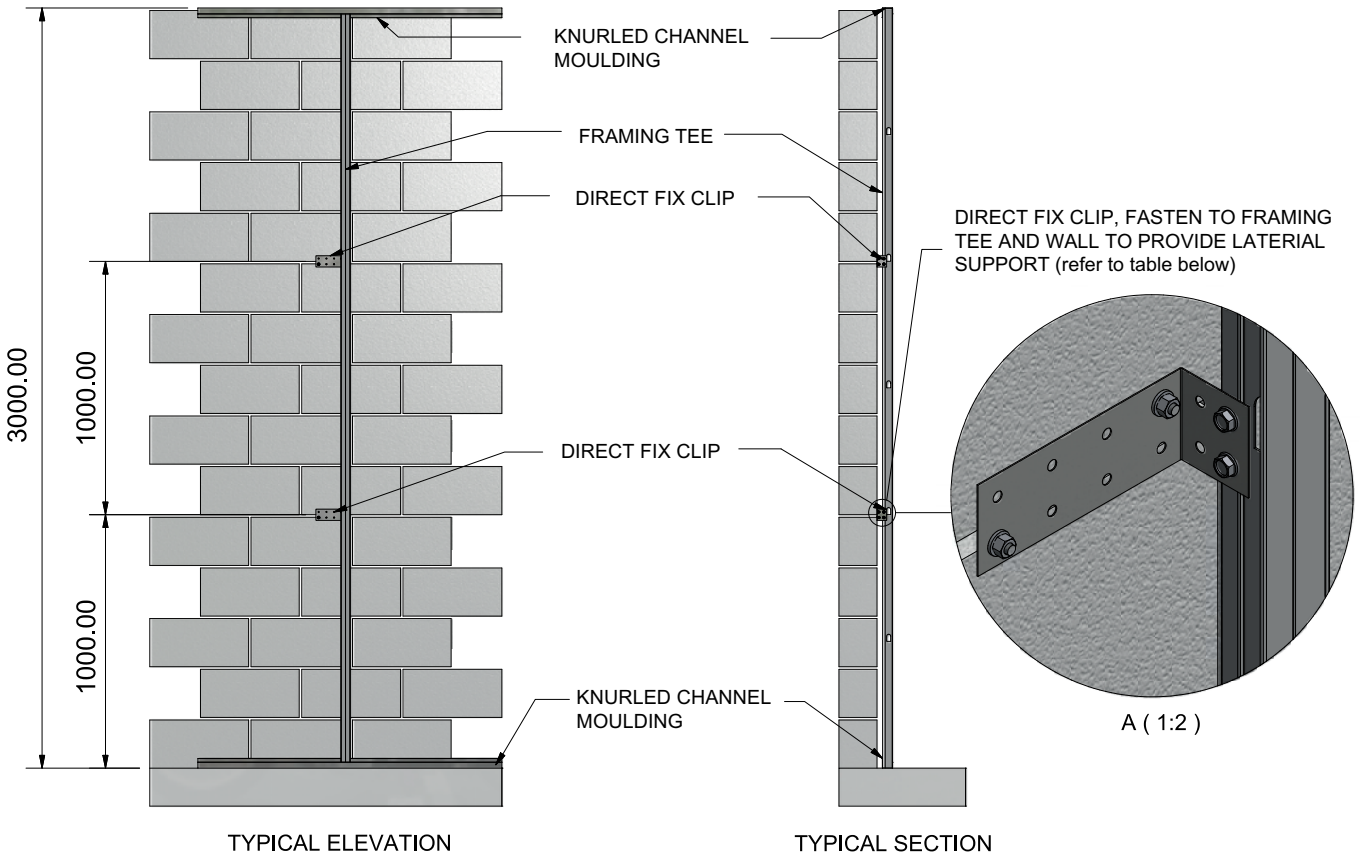
Perimeter Trim





Item Number	Dimensions length (mm)	height (mm).	face (mm)	Rout Spacing mm	Content / Bundle / Weight pcs	lm	kg
Knurled Channel Moulding (hemmed with Knurled lower leg)							
BP KCM 36	3600	40	38	–	12	43.2	15.6

Wall Systems



Wall System Clip Spacings

Main Bar Length	Maximum Anchor Spacing
2400mm	1200mm centres
2700mm	900mm centres
3000mm	1000mm centres
3600mm	1200mm centres

Design based on items below

BP794033	3600mm Main Bar
BP79S36	3600mm Shortspan

Installation Guide

The Armstrong Wall System is unique as the primary component is a 38mm Flat Face Tee which can be installed very quickly without requiring any adjustable clips to level your wall.

Step 1. Locate and fix the Channel Moulding top and bottom.

Step 2. Cut the Short Span 38mm Flat Face Main Bars to length and install at required centres (to suit your building board); screw fixing to Chanel Mouldings. This method will aid the wall system leveling.

Step 3. Screw brackets to both the structure (as per Design table), and to the ShortSpan Main Bars.

Locating Insulation

The DGS Wall System allows insulation to be installed easily, and the “Tee Bar” profile holds the insulation in place.

Archtectural Specifications

Flat Plasterboard Ceilings: Suspended Grid shall be Armstrong Drywall Grid System, comprising of Main Bars and Cross Runners, including Wall Mouldings and Transition Trims, as per manufacturer's instructions.

Curved Plasterboard Ceilings: Suspended Grid shall be Armstrong Drywall Grid System, comprising of Main Bars (facetted) and Cross Runners, including Wall Mouldings and Transition Trims, as per manufacturer's instructions.

Corridors or Plasterboard Margins: Suspended Grid shall be Armstrong DGS ShortSpan, comprising of ShortSpan Tees and StrongBack Support sections (where required), including Wall Mouldings and Transition Trims as per manufacturer's instructions.

Bulkhead / Soffit: Suspended Grid structure shall be Armstrong DGS QuickStix, comprising of QuickStix Tees and Cross Runners, including Wall Mouldings and Transition Trims, as per manufacturer's instructions.

Wall Battening: Wall framing shall be Armstrong Drywall Grid System, comprising of ShortSpan, or Main Bar, including Knurled Channel mouldings, as per manufacturer's instructions.

Contact your Armstrong Office for additional project specification details.

For Seismic Design support please contact your local Armstrong Ceilings office.

Contact us

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