Armstrong DGS – ShortSpan is a fast and easy solution for framing short spans and an economical alternative to TCR and Furring Channel constructions.

**Features**

- ShortSpan enables framing without suspension hangers to a maximum span of 1600mm, saving material and time.
- ShortSpan Tees engage to the Armstrong Locking Angles Trims at the perimeter without the need to screw fix.
- Longer spans can be simply achieved using the StrongBack Support at 1600mm centres.

**Components**

### ShortSpan Tee with Knurled Face

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Dimensions</th>
<th>Rout Spacing</th>
<th>Content / Bundle / Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP 79S36</td>
<td>3600 38 38</td>
<td>–</td>
<td>12 43.2 20</td>
</tr>
</tbody>
</table>

### Perimeter Trims / Transition Trim

#### Perimeter Trim: Knurled Channel Moulding (hemmed with Knurled lower leg)

BP KCM 36 3600 40 38 – 12 43.2 15.6

#### Perimeter Trim: Locking Angle Trim (hemmed with Knurled faces)

BP LAT36 3600 32 32 75 in / 150 o.c. 20 72 26

#### Perimeter Trim: Angle Trim (hemmed with Knurled faces)

BP KAM36 3600 32 32 – 20 72 26

- Shadowline reveal with Knurled Face for PB fixing and Pre-painted Global White finish
  - ALPTPERFTH3600 3600 38 45.5 – 20 72 24
  - Plasterboard Transition Set Bead With 6mm Revel – Satin White

### StrongBack Support

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Dimensions</th>
<th>Rout Spacing</th>
<th>Content / Bundle / Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP 79SB36</td>
<td>3600 50 –</td>
<td>75 in / 150 o.c.</td>
<td>12 43 20</td>
</tr>
</tbody>
</table>
**Locking Angle Trim**

- A faster and more accurate solution for securing grid to wall angle
- Pre-engineered locking tabs punched 150mm on center:
  - Locking tabs prevent lateral and upward movement
  - Eliminate screws, pop rivets, or crimpers needed to attach tees to moulding
- Knurled surface on both flanges
- **ScrewStop** – Reverse hem prevents screw spinoff and provides safer handling
- Alignment crimp at locking tabs for fast, easy alignment

**Installation Notes**

1. ShortSpan tees must be cut within 3mm of the vertical leg of the Locking Angle Trim
2. **Must** screw LAT 36 and KAM 36 to wall structure at module spacing of 450 or 600mm centres
3. Insert right hand flange of tee into pocket “A” first and allow left flange to clear pocket “B” and rest on angle moulding. Slide tee to the left to engage in pocket “B” (audible click)
ShortSpan Framing and Locking Angle Moulding make drywall framing faster and easier

Corridor framing using traditional steel studs

**Fixture Installation**

- **Pan Head Screw Required When Tee Does Not Line Up with Locking Tab**
- **Tee Positioned to Allow Opening for Light Fixture**
- **Light Fixture**
- **Tee Locked into LAT 36**
- **Adjust Placement of Tee to Accept Opening of Light Fixture (Cut and Screw)**

**ShortSpan Board Loadings – Maximum Weight m²**

<table>
<thead>
<tr>
<th>Span (mm)</th>
<th>Spacing</th>
<th>Load kgs/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200mm</td>
<td>450mm</td>
<td>2 x 16mm Plasterboard</td>
</tr>
<tr>
<td>600mm</td>
<td>2 x 13mm Plasterboard</td>
<td></td>
</tr>
<tr>
<td>1500mm</td>
<td>450mm</td>
<td>2 x 13mm Plasterboard</td>
</tr>
<tr>
<td>600mm</td>
<td>1 x 13mm Plasterboard</td>
<td></td>
</tr>
<tr>
<td>1600mm</td>
<td>450mm</td>
<td>2 x 10mm Plasterboard</td>
</tr>
<tr>
<td>600mm</td>
<td>1 x 13mm Plasterboard</td>
<td></td>
</tr>
</tbody>
</table>

*Spans Greater Than 1600mm Strong Back To Be Installed Mid Span

- **1800mm** 450mm 3 x 16mm Plasterboard
- **600mm** 2 x 13mm Plasterboard
- **2100mm** 450mm 2 x 16mm Plasterboard
- **600mm** 2 x 13mm Plasterboard

**Design Loads Based On Items Below**

BP79S36 SHORTSPAN
BP79SB36 STRONGBACK

<table>
<thead>
<tr>
<th>Load kgs/m²</th>
<th>10mm Plasterboard: 6.8kgs m²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13mm Plasterboard: 8.6kgs m²</td>
</tr>
<tr>
<td></td>
<td>16mm Plasterboard: 10.5kgs m²</td>
</tr>
<tr>
<td></td>
<td>10mm Ceiling Board: 7.2kgs m²</td>
</tr>
</tbody>
</table>
StrongBack

- Easier, pre-engineered solution to support spans over 1600mm
- Knockouts 150mm on center eliminates measuring, screwing, and splicing
- Allows vertical supports at 1200mm on centre
- Reduces lateral movement
- Resists upward movement if used with vertical tee post or stud
- Easier to level system compared to traditional framing

Method to Install StrongBack

1. Flattened bulb allows StrongBack to slide over bulb
2. Slide StrongBack into place — no bending of tab required
<table>
<thead>
<tr>
<th>Item Number</th>
<th>Product Description</th>
<th>Pcs / Bucket</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPDW10LT</td>
<td>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. For 10mm Plasterboard.</td>
<td>125</td>
<td>●</td>
</tr>
<tr>
<td>BPDW13LT</td>
<td>For 13mm Plasterboard</td>
<td>125</td>
<td>●</td>
</tr>
<tr>
<td>BPDW16LT</td>
<td>For 16mm Plasterboard</td>
<td>125</td>
<td>●</td>
</tr>
<tr>
<td>ALDW13</td>
<td>Suits 45/50 Top Hat for 13mm Plasterboard</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>BPDW30C</td>
<td>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.</td>
<td>250</td>
<td>●</td>
</tr>
<tr>
<td>BPDW45C</td>
<td></td>
<td>250</td>
<td>●</td>
</tr>
<tr>
<td>BPDW60C</td>
<td></td>
<td>250</td>
<td>●</td>
</tr>
<tr>
<td>BPDW90C</td>
<td></td>
<td>250</td>
<td>●</td>
</tr>
<tr>
<td>BPRC2</td>
<td>Radius Clip is used to secure the Main Bar at the desired angle in curved ceiling applications. Includes a rout for Cross Runners installation.</td>
<td>205</td>
<td>●</td>
</tr>
<tr>
<td>BPGC3W</td>
<td>3 Way Bite Clip connects Intersecting Cross Runners at any point along a Main Bar or other Cross Runners.</td>
<td>250</td>
<td>●●●</td>
</tr>
<tr>
<td>BPOSUTC*</td>
<td>Up Tight Clip is used for Direct fix applications *Non stock item – lead time required</td>
<td>150</td>
<td>●●●</td>
</tr>
<tr>
<td>SCDGS</td>
<td>Rod Hanging Clip is the standard height adjustable suspension clip connecting from 2.5 or 5mm rod to the DGS Main Bar.</td>
<td>100</td>
<td>●●●</td>
</tr>
<tr>
<td>DWDFC</td>
<td>Direct Fix Clip – 180mm L Shape</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>DWDFC120</td>
<td>Direct Fix Clip – 120mm L Shape</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>DWFFC180</td>
<td>Direct Fix Clip – 180mm Flat Extension</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>DWDFC18050</td>
<td>Direct Fix Clip – 180mm L Shape with 50mm Head</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>DGSSCS</td>
<td>DGS Suspension Clip Small is the standard height adjustable suspension clip connecting from 2.5 or 5mm rod to the DGS Main Bar.</td>
<td>100</td>
<td>●</td>
</tr>
<tr>
<td>DGSSCTR</td>
<td>DGS Threaded Rod Clip is a suspension clip for 6mm Threaded Rod</td>
<td>100</td>
<td>●</td>
</tr>
</tbody>
</table>

**Legend:** ● Flat Ceilings, ● Wall systems, ● Curved Ceilings, ● Quikstix Bulkheads, ● ShortSpan
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.

Contact your Armstrong Office for additional project specification details.

**TECHNICAL DATA**

**Features**
- **Knurled Face**
  Positive screw penetration into tees
- **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**

**General 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 XL 2 clip

**Code Compliance**
Armstrong DGS is designed and manufactured to comply with the following standards:
- AS/NZ 2785-2000: 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

For Seismic Design support please contact your local Armstrong office.

NSW
Armstrong World Industries Pty. Ltd.
99 Derby Street,
Silverwater NSW 2128
Telephone (02) 9748 1588
Facsimile (02) 9748 8449

VIC/TAS
Armstrong World Industries Pty. Ltd.
29-39 Mills Road,
Braeside VIC 3195
Telephone (03) 9580 9633
Facsimile (03) 9587 5139

QLD/NT
Armstrong World Industries Pty. Ltd.
6 Barrinia Street,
Slacks Creek QLD 4127
Telephone (07) 3809 5565
Facsimile (07) 3809 5507

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