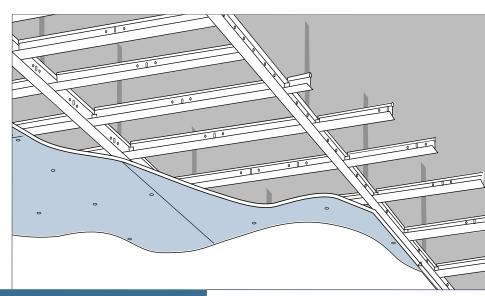
Between us, ideas become reality™

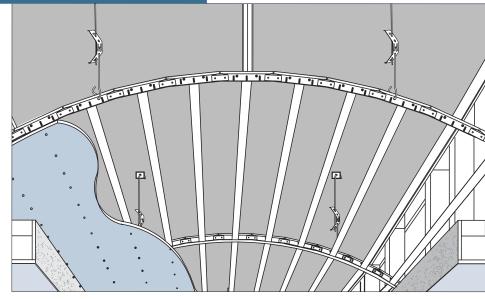


FLAT

# **Drywall**Grid**System**

Technical Guide including ShortSpan and QuikStix Bulkheads









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Design support please contact your local Armstrong office.

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

## Legend



lcon refers to Curved Ceilings and icon refers to Flat Ceilings



## **Design Flexibility**

Armstrong Drywall Grid Systems offer flexible design solutions for:

- Transitions to acoustical ceilings
- Flat and curved ceilings
- Margins
- Bulkheads

#### **Performance**

### PeakForm

Patented profile increases strength and stability for improved performance during installation

#### Knurled Face

Positive screw penetration into tees

# SuperLock / XL<sup>2</sup>

Main Runner and Cross Tee 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 runners and cross tees - easy installation of screw fixed plaster board 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

# **Physical Data**

- Material: Hot dipped galvanised steel
- Recycled Content of 40%
- Surface Finish: Z275 galvanised
- Main Runner / Cross Tee Interface: Joggled ends
- End Detail:
  - Main Runner: staked-on SuperLock clip
  - Cross Tee: staked-on XL2 clip

# Typical Applications

- Enables integration between plasterboard and acoustical panel ceilings
- Interior screw up ceilings flat or curved
- Bulkheads/special transitions

#### Code Compliance

## Armstrong DGS is designed and manufactured to comply with the following Australian Standards:

AS/NZ 2785-2000: Suspended Ceilings – Design and Installation

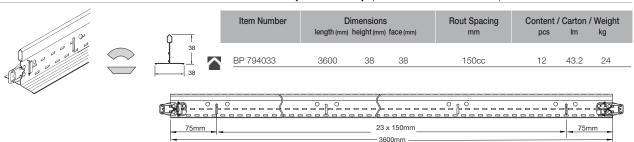
AS/NZ 2589-2007: Gypsum linings – Application and finishing

AS/NZ 1397-2002: Steel sheet and strip - Hot-dipped zinc-coated or aluminium/zinc-coated

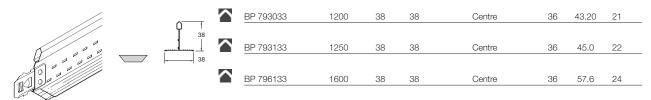
AS/NZ 4600-2005: Cold-formed steel structures

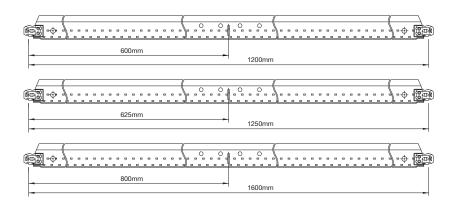
AS/NZ 1170-2002: Structural Design Actions

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



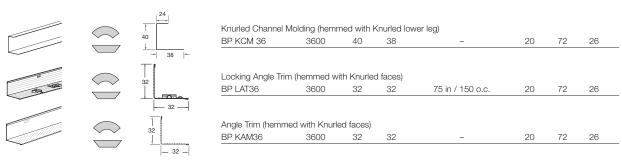
# Cross Tees: PeakForm 38 XL² with Knurled Face (stab connection, override)





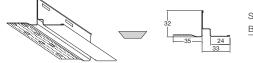
#### **Perimeter Trims**

A variety of drywall grid perimeter trims and accessories are available to provide problem-solving solutions that save time, labor and money.



#### **Transition Trim**

An innovative transition solution from flush plasterboard to acoustical ceiling systems.



Shadowline reveal with Knurled Face for PB fixing and Pre-painted Global White finish BP 7902 3048 32 68 - 12 36.58 14.5

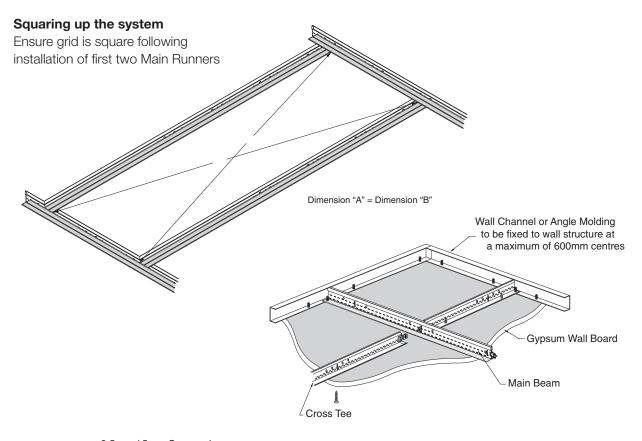


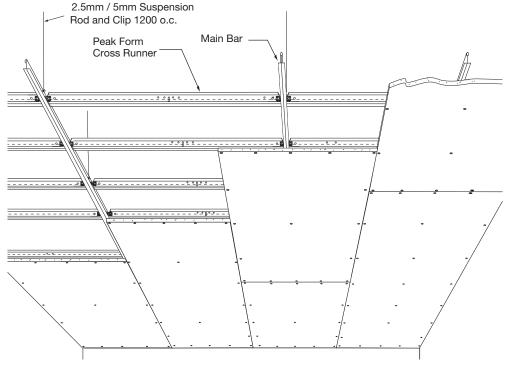


Item Number	Product Description	Pcs / Bucket	Application
BPDW10LT BPDW13LT BPDW16LT	Transition Clips with Locking Tabs facilitate transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates need for drywall bead. Locking tabs provide secure locationfor DGS tees For 10mm Plasterboard For 13mm Plasterboard For 16mm Plasterboard	125 125 125	
BPDW30C BPDW45C BPDW60C BPDW90C	30, 45, 60 and 90 degree <b>Drywall Angle Clips</b> are used to create positive and secure angles for drywall and ceiling installations on either main beams or cross tees	250 250 250 250 250	30° 45°
BPRC2	Radius Clip is used to secure the Main Runner at the desired angle in curved ceiling applications. Includes a rout for Cross Tee installation	205	
BPGC3W	3 Way Bite Clip connects Intersecting Cross Tees at any point along a Main Runner or other Cross Tee	250	
BPQSUTC	Up Tight Clip is used for Direct fix applications	150	114
SCDGS	Rod Hanging Clip is the standard height adjustable suspension clip connecting from 2.5 or 5mm rod to the DGS Main Runner	100	Rod Hanging Clip

**Armstrong Drywall Grid** is fast and easy to install and an alternative to TCR and Furring Channel construction. The Drywall Grid System is made up of PeakForm (DGS) Main Runners and Cross Tees that are suspended from the structural deck. Sections of Main Runners lock together end-to-end with Cross Tees spanning between the Main Runners.

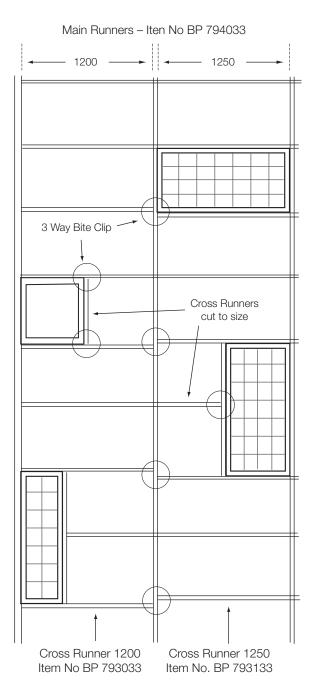
The ends of the Main Runners and Cross Tees either lock into the wall Channel or are fixed to Angle Trims that run around the perimeter of the space.





The Armstrong Drywall Grid System is designed to accommodate installation of mechanical services such as light fixtures and air registers. Fixtures can be simply framed regardless of orientation (parallel or perpendicular to Main Runners), as per the illustrations below.

Main Runners feature connection routs at 150mm centres for installation of additional Cross Tees so that fixtures can be framed and supported. The "3 Way Bite Clip" is applied where connections are required where no rout exists, such as connecting between Cross Tees.

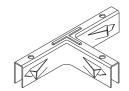


# Note: Light Fixtures Installed Perpendicular to Main Runners

- Main Runners should be installed at 1250mm OC to accommodate Light Fixtures, providing a clear opening of 1212mm for easy installation. Standard 1250mm long Cross Tees are installed between Main Runners at 600mm OC, with additional Cross Tees to support and frame out the fixtures.
- For shorter rectangular fixtures, (with length less than 1162mm) install Main Runners at 1200mm OC and apply typical 1200mm Cross Tees.

# Legend



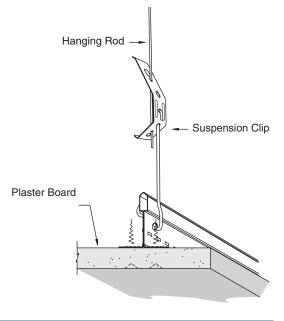


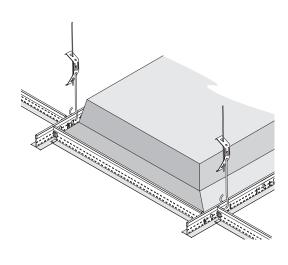
## **Drywall Grid System Details**





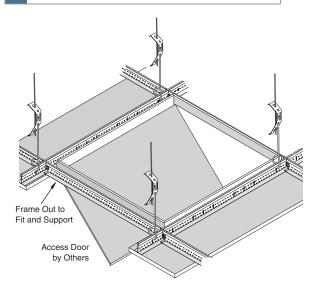
**Drywall**Grid**System** 

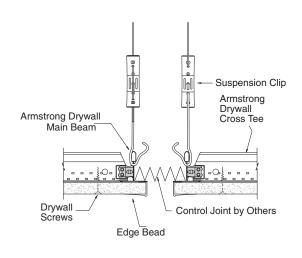




# 1 Suspension

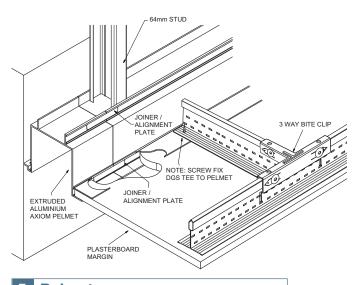
2 Light Fixture

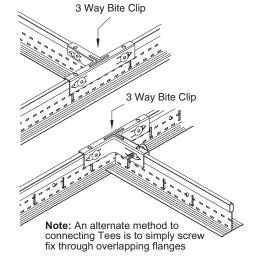




# 3 Access Door

4 Control Joint



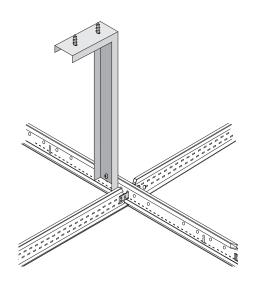


5 Pelmet

# 6 Securing a Single Cross Tee

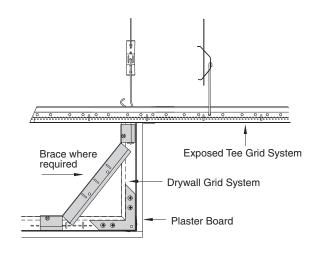


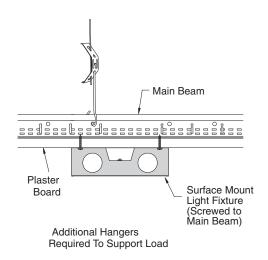




# 7 Vertical Brace

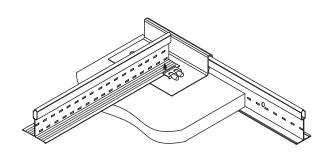


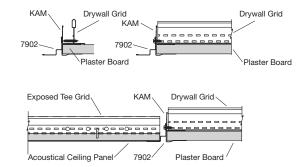




# 9 Bulkhead

# **10** Surface Mount Fixture





# 11 Transition with DW10/13/16 Clip

# **12 Transition Trim**



Curved

## **Estimating Material**

Item	Description	Dimensions Length (mm)	Carton /Content pcs Im		3		Area of ceiling			
BP 794033	Main Runner	3600	12	43.2	24	69m²	54m <sup>2</sup>	52m <sup>2</sup>		
						@600cc	@450cc			
BP 796133	Cross Tee	1600	36	57.6	24	34m²	26m²			
BP 793133	Cross Tee	1250	36	45.0	22	27m²	20m²			
BP 793033	Cross Tee	1200	36	43.20	21	26m²	19m²			
BP KCM	Channel Molding	3600	20	72	26					
BP LAT	Locking Angle Trim	3600	20	72	26					
BP KAM36	Angle Trim	3600	20	72	26					

Ratio for Cartons (approximate)

1600mm Cross tees at 600cc

MR:CT = 1:2

1250mm Cross tees at 600cc

MR:CT = 1:2.5

1200mm Cross tees at 600cc

MR:CT = 1:2

1600mm Cross Tees at 450cc

MR:CT = 1:2

1250mm Cross Tees at 450cc

MR:CT = 1:3

1250mm Cross Tees at 450cc

MR:CT = 1:3

#### **Load Data**

Fig 1

Drywall G	rid System	System Capacity kg/m²				
Main Runner Centres (mm)	Cross Tees Centres (mm)	Suspension 900mm	on points @ 1200mm			
1200	450	44.67	18.79			
1200	600	44.67	18.79			
1250	450	42.87	18.16			
1230	600	33.35	18.16			
1600	450	24.27	14.21			
1000	600	18.21	14.21			

Fig 2

Module Size	Grid System Weight (kg/m²)
1200 x 450	1.43
1200 x 600	1.17
1250 x 450	1.42
1250 x 600	1.16
1600 x 450	1.33
1600 x 600	1.08

Note: System Capacity figures based on deflection L/360

#### **Ceiling Load Calculator**

To determine compliance of system (In accordance with AS2785:2000), based on project requirements, apply the following calculator:

- 1. Determine Dead Load (G) = Sum of following:
  - a. Plasterboard weight in kg/m2 = A
  - b. Grid weight based on module (Fig 2) = B
  - c. Fixtures Load (Includes lights etc) = C Dead Load (G) = Sum  $(A+B+C) \times 1.4 = _kg/m^2$
- 2. Add Service Load (U) =  $3kg/m2 \times 1.7 = 5.1kg/m^2$
- 3. Actual Ceiling Load =  $G + U = kg/m^2$
- 4. For compliance to AS2785:2000, the Calculated Ceiling Load (G+U) must be less than the System Capacity in Fig 1

Note: Light fixtures and other mechanical services may require additional suspension points or be independently suspended.

#### Worked Example of Actual Project Ceiling Load: Using 13mm plasterboard and Grid Module: 1200x600mm

- 1. Determine Dead Load (G) = Sum of following:
  - a. Plasterboard weight in 8.2kg/m<sup>2</sup> = A
  - b. Grid weight based on module (Fig 2) = 1.17kg/sm<sup>2</sup> = B
  - c. Fixtures Load (Includes lights etc) = Assume Nil based on light fixture = weight of plasterboard Dead Load (G) = Sum (A+B+C) x 1.4 = 13.12 kg/m<sup>2</sup>
- 2. Add Service Load (U) =  $3kg/m^2 \times 1.7 = 5.1kg/m^2$
- 3. Actual Ceiling Load = G + U = 18.21kg/m<sup>2</sup>
- 4. System complies to AS2785:2000, as the Calculated Ceiling Load (G+U) < 18.79kg/sm (being the System Capacity in Fig 1



### **Creating Curved Framing Ceilings**

An unlimited range of Curved ceilings can simply be constructed using standard Armstrong Drywall Grid components.

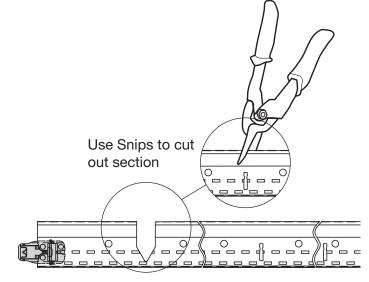
Single and multiple curved ceilings can be framed quickly and easily, without the requirement to order pre-rolled components.

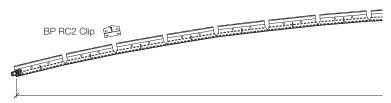
#### **Features**

- Standard Main Runners are simply Faceted on site
- Limitless Concave or Convex designs
- Pre-engineered accessories

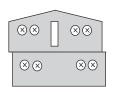
#### Faceting the Main Runner

- Three simple steps:
  - i. Cut Main Runner as required
  - ii. Bend the face of the Main Runner to match the desired radius
  - iii. Screw fix Radius Clip to reinforce Main Runner at each "cutout" location (use four #6 x12mm button head screws).





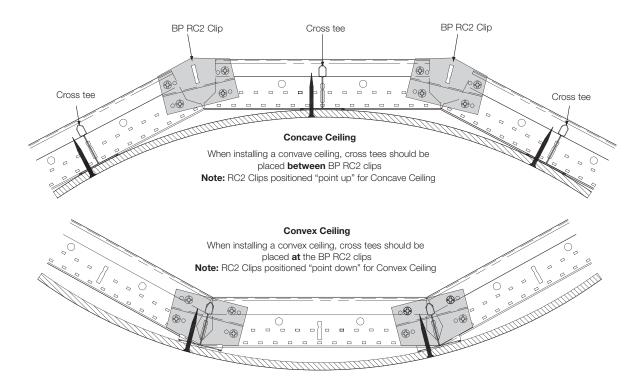
Radius and plaster board thickness will determine on centre spacing of cuts. Refer to "Establishing an Arc" on next page for creating a curved template.



Install RC2 Clip at all cut locations on Main Runner using 4 screws per clip

BP RC2 Clip is used to secure the main runner at the desired angle in curved ceiling with slot for installing cross tees.

Refer to "Making a template" on page 13.

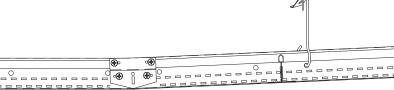


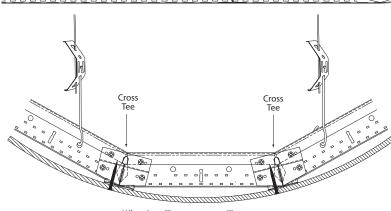


## **Creating Convex Ceilings**

An unlimited range of convex ceilings can be constructed by faceting the Main Runners on the job site to meet design needs.

- 1 Cut main runners as required to create desired curve
- 2 Bend the face of the main beam to match radius
- 3 Use RC2 to reinforce main beam at each knockout location (secure with four #6 x 12mm button head screws





When installing a convex ceiling, cross tees are placed at the RC2 clip.

- Suspension hangers spaced along the main runners not more than 1200mm on centre (dependent upon plaster board construction).
- Add vertical braces as required to stabilize the frame.
- Thickness of the sheeting material is determined by its plasticity. (Refer to supplying manufacturer's recommendation).

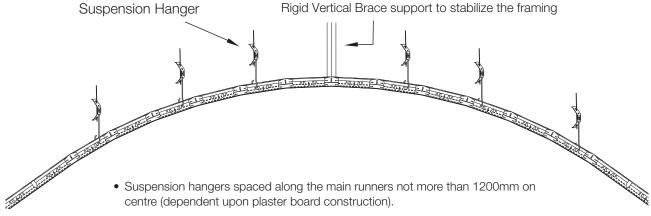
Note: Place RC2 clip on the side of the

web where the rotary stitching forms a cavit. This allows the clip to be flush with the web.



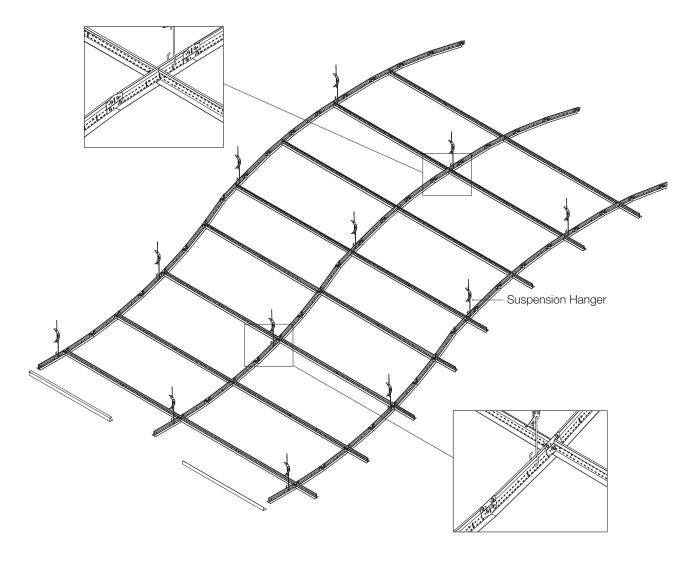
# Creating Concave Ceilings and Undulating Ceilings (Waves)

An unlimited range of concave ceilings can be constructed by faceting the Main Runners on the job site to meet design needs Single and multiple curved ceilings can be framed quickly and easily.

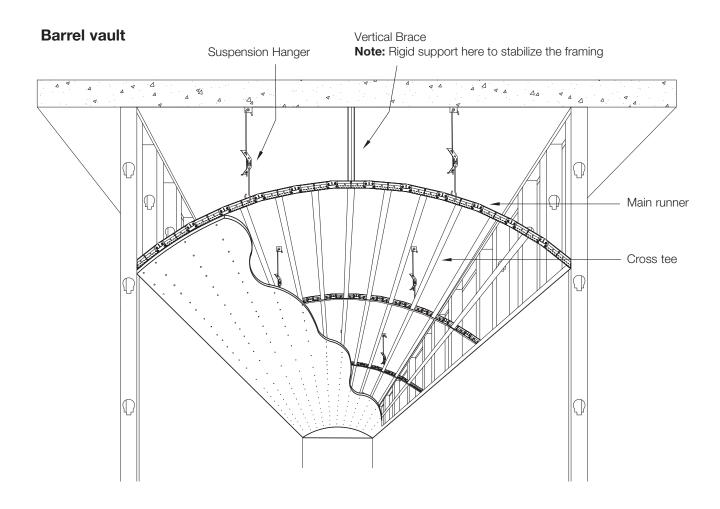


- Add vertical braces as required to stabilize the frame.
- Thickness of the sheeting material is determined by its plasticity. (Refer to supplying manufacturer's recommendation).

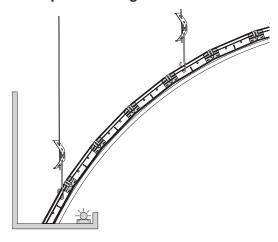
Note: Place RC2 clip on the side of the web where the rotary stitching forms a cavit. This allows the clip to be flush with the web.



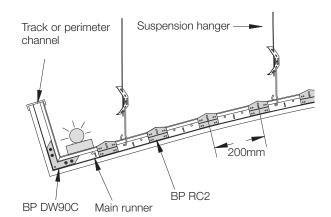




# Vault perimeter light cove



# Floating vault



# **Cantilever Ceilings:**

A maximum cantilever dimension of 450 mm is allowed on the following basis:

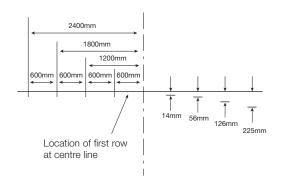
- 1. Being the sum of both the horizontal and vertical elements.
- 2. Is measured as the distance from a hanger to the terminal end of the cantilever.

Note: Regardless of the horizontal dimension, a diagonal brace must be installed if the vertical dimension exceeds 300mm. (applies to flat or curved installation – as shown).

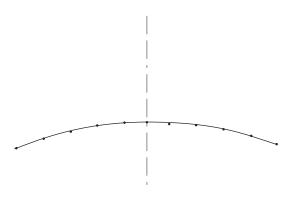
# Establishing an arc

- 1. Establish a centre line
- 2. Mark 600mm increments on line perpendicular to centre line

**Example:** 12.9 m using chart on page 20.



- 3. At 600mm marks, identify points of arc below perpendicular line (maintain consistent spacing of point). See radius charts on page 14.
- 4. Connect points to form a smooth arc

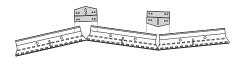


# Completing the template

1. Draw radius on template

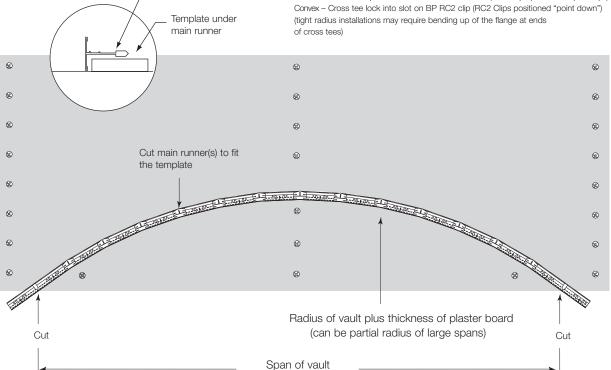
Main runner

- 2. Cut along the radius and remove section of template
- 3. Cut main runner as required and position along the cut radius on the template (use the chart below)
- 4. Screw BP RC2 clips to faceted main runner at all cutout locations 3
- 5. On the template, mark a slot location reference point to maintain consistent slot location



#### \* BP RC2 Clip placement

Concave - Cross tee placement in slots between cuts (RC2 Clips positioned "point up")





						Ra	dius d	imens	ion in	mm						
		3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200
	600	60	55	50	46	43	40	38	35	33	32	30	29	27	26	25
	1200	250	226	206	189	175	163	152	143	135	128	121	115	110	105	101
	1800	600	534	482	440	405	376	350	328	309	292	276	263	250	239	229
	2400	1200	1035	917	826	753	693	643	600	563	530	501	475	452	431	412
		7500	7800	8100	8400	8700	9000	9300	9600	9900	10200	10500	10800	11100	11400	11700
	600	24	23	22	21	21	20	19	19	18	18	17	17	16	16	15
	1200	97	93	89	86	83	80	78	75	73	71	69	67	65	63	6.2
	1800	219	211	203	195	188	182	176	170	165	160	155	151	147	143	139
	2400	394	378	364	350	338	326	315	305	295	286	278	270	263	255	249
		12000	12300	12600	12900	13200	13500	13800	14100	14400	14700	15000	15300	15600	15900	16200
	600	15	15	14	14	14	13	13	13	13	12	12	12	12	11	11
	1200	60	59	57	56	55	53	52	51	50	49	48	47	46	45	45
	1800	136	132	129	126	123	121	118	115	113	111	108	106	10.4	102	100
ē	2400	242	236	231	225	220	215	210	206	201	197	193	189	186	182	179
ii e		16500	16800	17100	17400	17700	18000	18300	18600	18900	19200	19500	19800	20100	20400	20700
nt.	600	11	11	11	10	10	10	10	10	10	9	9	9	9	9	9
ce	1200	44	43	42	41	41	40	39	39	38	38	37	36	36	35	35
ШC	1800	98	97	95	93	92	90	89	87	86	8.5	83	82	81	80	78
s fr	2400	175	172	169	166	163	161	158	155	153	151	148	146	144	142	140
600mm increments from centre line		21000	21300	21600	21900	22200	22500	22800	23100	23400	23700	24000	24300	24600	24900	25200
em	600	9	8	8	8	8	8	8	8	8	8	8	7	7	7	7
JC.	1200	34	34	33	33	32	32	32	31	31	30	30	30	29	29	29
. <u>=</u>	1800	77	76	75	74	73	72	71	70	69	68	68	67	66	65	64
Jmi	2400	138	136	134	132	130	128	127	125	123	122	120	119	117	116	115
900		25500	25800	26100	26400	26700	27000	27300	27600	27900	28200	28500	28800	29100	29400	29700
	600	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6
	1200	28	28	28	27	27	27	26	26	26	26	25	25	25	25	24
	1800	64	63	62	61	61	60	59	59	58	58	57	56	56	55	55
	2400	113	112	111	109	108	107	106	105	103	102	101	100	99	98	97
		30000	30300	30600	30900	31200	31500	31800	32100	32400	32700	33000	33300	33600	33900	34200
	600	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5
	1200	24	24	24	23	23	23	23	22	22	22	22	22	21	21	21
	1800	54	54	53	52	52	51	51	51	50	50	49	49	48	48	47
	2400	96	95	94	93	92	92	91	90	89	88	87	87	86	85	84
		34500	34800	35100	35400	35700										
	600	5	5	5	5	5										
	1200	21	21	21	20	20										
	1800	47	47	46	46	45										
	2400	84	83	82	81	81										

Flat

Armstrong DGS QuikStix is a fast and easy solution for framing "Bulkhead" Ceilings and an economical alternative to Stud and Track construction.

- Knockouts at 150mm centers reduces cutting time.
- Alignment holes make screw installation simple and forms perfect 30, 45, 60, 75 and 90 degree angles.
- Flattened bulb is offset to allow true angles without interference.
- Bending crimp prevents misalignment.

StrongBack Support

·.....

• 90 degree angle fits locking angle mold (LAT-36).

### **Key Attributes**

- 38mm Wide Knurled Face
  Easy installation of screw fixed plaster board sheets
- ScrewStop

  Reverse hem prevents screw spin off on Tee face
- Rotary stitched Double Thickness Web
  For additional torsional strength and stability

#### **Physical Data**

- Material: Hot dipped galvanised Z275 steel
- Recycled Content of 40%
- End Detail: square cut

#### **Drywall**Grid**System** Components Flat **QuikStix Tee with Knurled Face** Content / Bundle / Weight Item Number **Dimensions Rout Spacing** length (mm) height (mm) face (mm) BP 79QS 636 3600 39/41 38 75 in / 150 o.c 43.2 3600mm Flattened Bulb 75mm -----Bending Crimp 150mm Alignment Holes Rout Hole Cross Tee: PeakForm 38 XL2 with Knurled Face (stab connection, override) BP 793033 Centre 43.2 0 0 0 0 600mm 1200mm **Perimeter Trims** Knurled Channel Molding (hemmed with Knurled lower leg) BP KCM 36 3600 40 72 26 Locking Angle Trim (hemmed with Knurled faces) BP LAT36 3600 32 75 in / 150 o.c. 20 72 26

3600

BP 79SB36

Angle Trim (hemmed with Knurled faces)

32

20

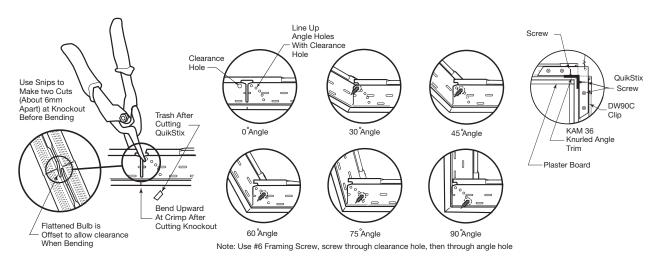
150

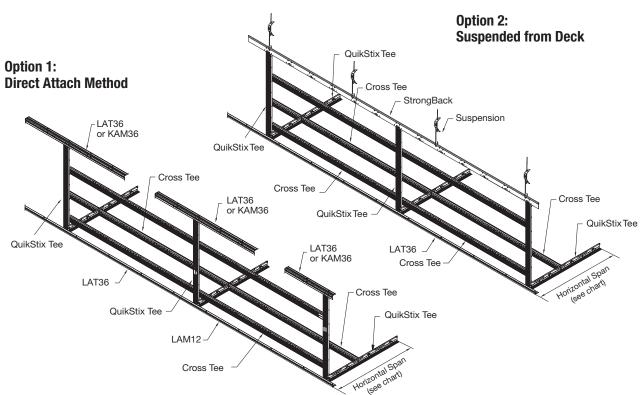
72

43.20

26







#### QuikStix Soffit System Capacity in kg/m<sup>2</sup>

Framing Spacing	400 Horizontal	400 600 Horizontal Horizontal		900 Horizontal		
600	55.00	38.67	26.66	18.16		
900	34.67	25.78	17.77	_		
1200	26.07	14.45	10.22	_		
1800	17.33	12.89	_	_		

If QS section is spaced at 600 on centre, with a horizontal span of 900, the system will carry  $18.16\ kg/m^2$ .

Moving QS sections further apart, to 1200, with 1200 tees between, and a horizontal span of 800, the system will carry  $10.22 \text{ kg/m}^2$ .

If tees are used to spread QS sections further apart, tees should be installed at 450 o/c.

Horizontal spans greater than 900 require vertical support.

Diagonal bracing as required inside the soffit.

Vericat height of soffit can be taken from chart.

# BoxBeam Drop Heights or Vertical Drops (using 79QS36G90)

Box	Hangers at									
Width	800 o/c	900 o/c	1000 o/c	1200 o/c						
300	2925	2550	2100	1350						
600	2775	2400	1950	1200						
900	2625	2250	1800	1050						
1200	2475	2100	1650	_						

Vertical Drops measured when BoxBeam is suspended by StrongBack.

If BoxBeam is suspended from upper ceiling, it must be screwed directly to main beams, with a hanger to structure above the connection. Diagonal bracing inside the box as required.

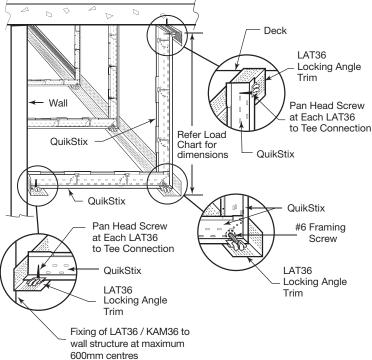
Box ribs spaced at 600 o/c.

Loads applied based on 15mm board, with board on two sides and bottom.

Dimensions are for each side of box or drop – 2925 maximum drop for soffit/box.



# 90 Degree Drop Bulkheads

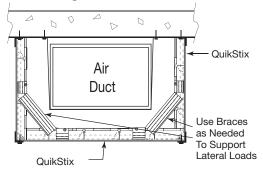


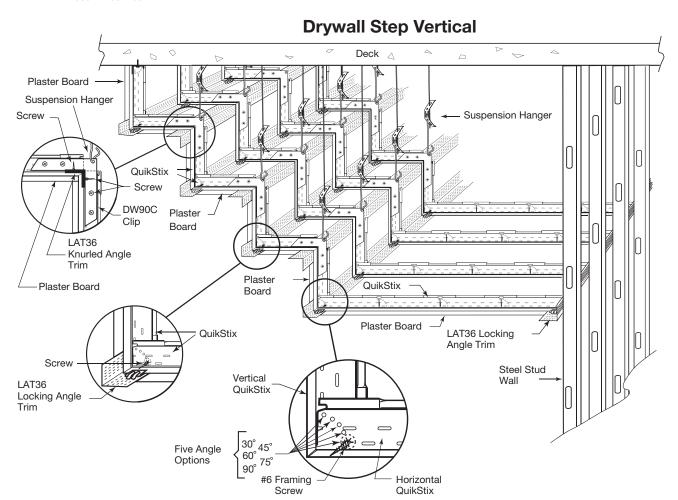
# **Load Values:**

	System Capacity (kg/m²)					
Item	Hangers at 1200, Tees at 450 o/c	Hangers at 900, Tees at 450 o/c				
79QS36G90	13.86	25.63				

Note: 10mm PB 7.0 kg/m² 13mm PB 8.8 kg/m² 16mm PB 13 kg/m² \*For other combinations, contact your Armstrong office (details on page 24)

# **Framing Around Duct Work**





Flat

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

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.

#### **Key Attributes**

#### • 38mm Wide Knurled Face

Easy installation of screw fixed plaster board sheets

#### ScrewStop

Reverse hem prevents screw spin off on Tee face

#### · Rotary stitched Double Thickness Web

For additional torsional strength and stability

#### StrongBack Support

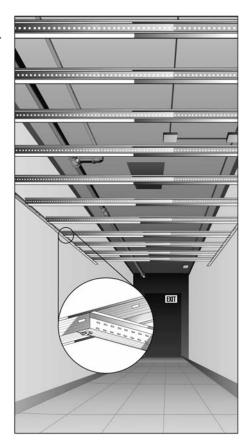
Corridor solutions up to 3200mm wide with single mid span StrongBack Support

#### Locking Angle Trim

Perimeter Angle with locking tabs at 150mm centres, for rapid securing of ShortSpan Tees. Locking Tabs prevent lateral and upward movement

#### **Physical Data**

- Material: Hot dipped galvanised Z275 steel
- Recycled Content of 40%
- End Detail: square cut



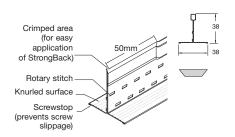
#### Components



**Drywall**Grid**System** 

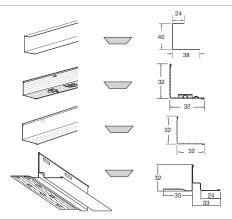
Flat

## **ShortSpan Tee with Knurled Face**



Item Num		Dimensio nm) height (m			out Spacing mm	Content pcs	/ Bundle . Im	/ Weight kg
BP 79S36	3600	38	38		-	12	43.2	20
							0000	
50mm			30	600mm ——			-	50mm

## **Perimeter Trims / Transition Trim**



Perimeter Trim: K	nurled Chann	el Moldino	g (hemme	d with Knurled lower leg)				
BP KCM 36	3600	40	38	_	20	72	26	

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

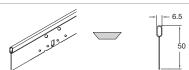
 BP LAT36
 3600
 32
 32
 75 in / 150 o.c.
 20
 72
 26

 Perimeter Trim: Angle Trim (hemmed with Knurled faces)

 BP KAM36
 3600
 32
 32
 20
 72
 26

Transition Trim: Shadowline reveal with Knurled Face for PB fixing and Pre-painted Global White finishBP 790230483268-1236.5814.5

#### StrongBack Support



BP 79SB36	3600	50	_	75 in / 150 o.c.	12	43.20	20



# **Application**

### Locking Angle Trim - a faster, more accurate solution

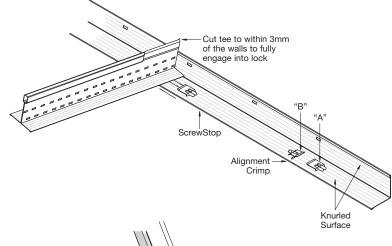
- ✔ Pre-engineered locking tabs punched 8 on center:
  - Locking tabs prevent lateral and upward movement
  - Eliminate screws, pop rivets, or crimpers needed to attach tees to molding
- ✓ Knurled surface on both flanges
- ScrewStop reverse hem prevents screw spinoff and provides safer handling
- Alignment crimp at locking tabs for fast, easy alignment

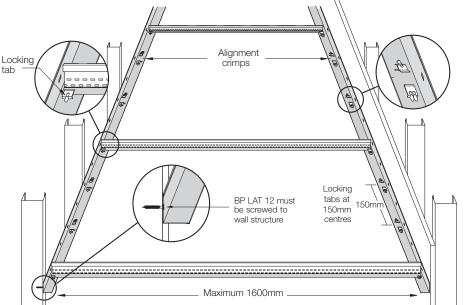


ShortSpan tee engaged in Locking Angle Trim

#### **Installation Notes**

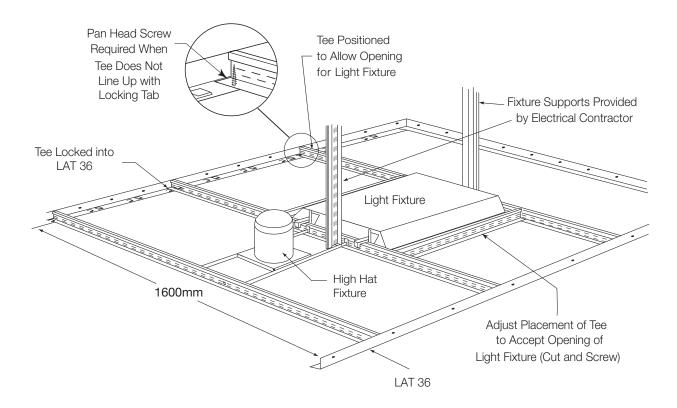
- 1 ShortSpan tees must be cut within 3mm of the vertical leg of the Locking Angle Trim
- 2 Must screw LAT 36 and KAM 36 to wall structure at module spacing of 450 or 600mm centres
- 3 Insert right hand flange of tee into pocket "A" first and allow left flange to clear pocket "B" and rest on angle molding.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



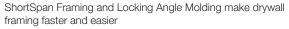




#### **Fixture Installation**





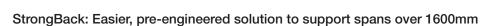




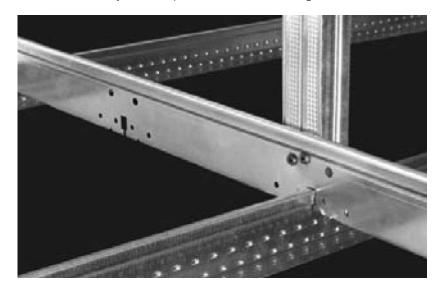
Corridor framing using traditional steel studs

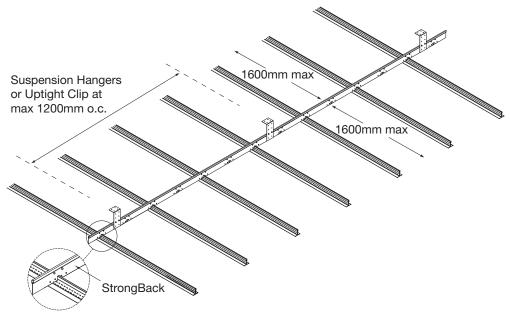
Span (mm)	Cross Tee Spacing (mm)	System Capacity (Kg/m²)
1200	450	51.31
	600	38.47
1500	450	27.78
	600	20.85
1600	450	24.26
	600	18.21
1800*	450	114.19*
	600	89.35*
2100*	450	59.6*
	600	44.74*

Notes: \*Requires StrongBack mid span vertical support Table to be applied in conjunction with Ceiling Load Calculator on page 8

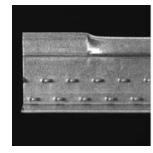


- ✓ Knockouts 150mm on center eliminates measuring, screwing, and splicing
- ✔ Allows vertical supports at 1200mm on centre
- ✔ Reduces lateral movement
- ✔ Resists upward movement if used with vertical tee post or stud
- ✓ Easier to level system compared to traditional framing



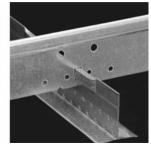


# Method to Install StrongBack



1 Flattened bulb allows StrongBack to slide over bulb





2 Slide StrongBack into place – no bending of tab required

Between us, ideas become reality™

## **Architectural Specifications**

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

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

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

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

Contact your Armstrong Office for additional project specification details



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