

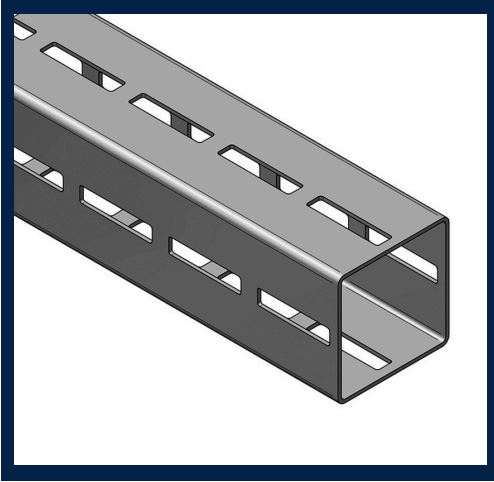
The background of the image shows an industrial setting with a complex network of metal frames, pipes, and ductwork. A large, horizontal, insulated duct runs across the upper portion of the frame. Below it, several copper-colored pipes are visible, some wrapped in insulation. The metal frames are made of perforated steel, typical of industrial support structures. A diagonal band of red and blue colors cuts across the lower half of the image, separating the background from the text area.

POWAGroup

POWAFRAME

Support Systems

PowAFrame 100



Dimensions:

100mm x 100mm x 6mtrs Beam

PowAFrame 100 offers a fully modular and adjustable support system, providing a cost-effective and time-efficient alternative to traditional welded construction methods.

Key Advantages:

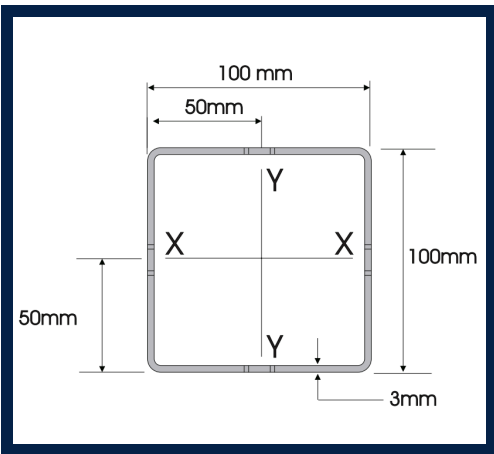
- Labour Saving
- Advanced Bolting: 10kN per bolt
- Integrated Fittings & Bracing
- Compatible with PowAGroup Pipe Support Systems
- Quick Lead Times
- Dismountable
- High Torsion Stiffness

Technical Data

Material:	Mild Steel
Material Type:	345 MPa
Finish:	H.D. Galv or Plain

Data Summary

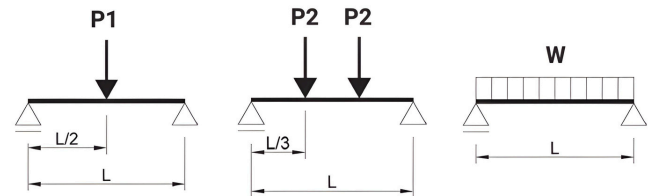
$f_y =$	345 MPa
$E =$	200 GPa



Section Properties	PART NO.	28PF1006
	WEIGHT kg/m	8.27
	AREA OF SECTION mm ²	955
X-X AXIS	MOMENT OF INERTIA $I 10^6 \text{ mm}^4$	1.55
	SECTION MODULUS $Z 10^3 \text{ mm}^3$	30.996
	RADIUS OF GYRATION $r \text{ mm}$	40.29
Y-Y AXIS	MOMENT OF INERTIA $I 10^6 \text{ mm}^4$	1.55
	SECTION MODULUS $Z 10^3 \text{ mm}^3$	30.996
	RADIUS OF GYRATION $r \text{ mm}$	40.29

Data Summary

Thickness	3mm
Slot Size	15.5 x 65mm
Slot Spacing	80mm ctrs



SPAN (L) mm	P1 kg	P2 kg	W kg (UNIFORM)
1000	2549	1871	4550
1500	1695	1271	3390
2000	1267	950	2535
2500	1010	705*	1922*
3000	828*	486*	1325*
3500	602*	353*	963*
4000	455*	267*	727*
4500	353*	207*	564*
5000	279*	164*	446*
5500	224*	131*	358*
6000	182*	107*	290*

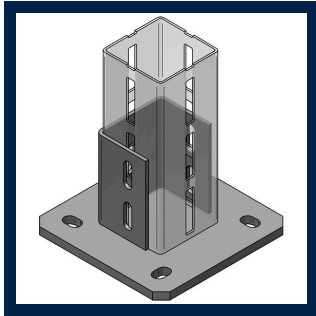
Capacity tables to AS4100. The allowable working loads calculated are based on the ultimate capacity of a simply supported beam, divided by a 1.5 factor. The mid-span deflection from working load has been limited to Span/200. The working loads include allowance for beam self-weight.

* Indicates working load governed by deflection.

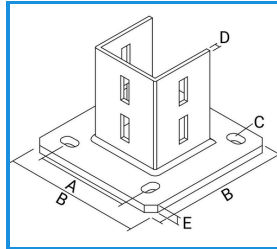
PowAFrame 100



PowAFrame 100 Base Plate



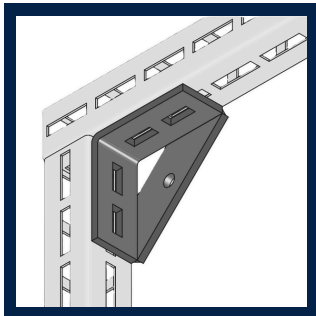
PART NO.	DESCRIPTION	FINISH
28PF100BP	PowAFrame 100 Base Plate	H.D. Galv.



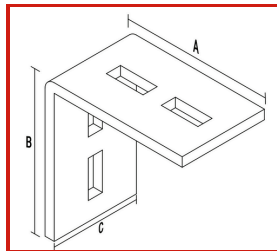
PART NO.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	SLOTS (mm)
28PF100BP	150	220	18 x 27	6	12	15.5 x 40

6 X SPBOLT-M12S REQUIRED UNO BY DESIGN DRAWING

PowAFrame 100 Braced Angle Bracket



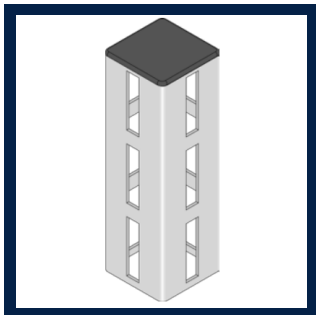
PART NO.	DESCRIPTION	FINISH
28PF100BB	PowAFrame 100 Braced Angle Bracket	H.D. Galv.



PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF100BB	150	150	90	10	15.5 x 40

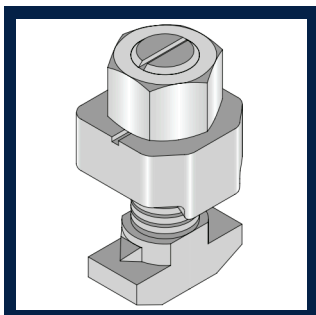
4 X SPBOLT-M12S REQUIRED UNO BY DESIGN DRAWING

PowAFrame 100 Black End Cap



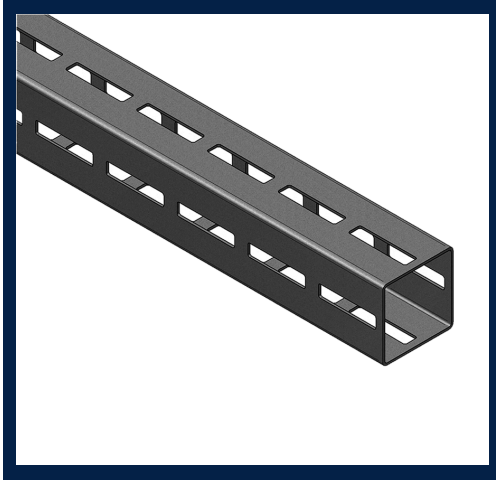
PART NO.	DESCRIPTION	COLOUR
28PF100EC	PowAFrame 100 End Cap	Black

PowAFrame Bolt M12 - PF80, PF100



PART NO.	DESCRIPTION	FINISH
28PFBM12	PowAFrame Bolt M12 - PF80, PF100	Zinc Nickel

PowAFrame 80



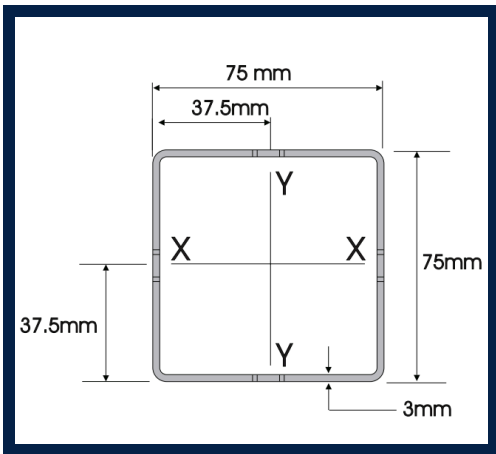
Dimensions:

75mm x 75mm x 6mtrs Beam

PowAFrame 80 offers a fully modular and adjustable support system, providing a cost-effective and time-efficient alternative to traditional welded construction methods.

Key Advantages:

- Labour Saving
- Advanced Bolting: 10kN per bolt
- Integrated Fittings & Bracing
- Compatible with PowAGroup Pipe Support Systems
- Quick Lead Times
- Dismountable
- High Torsion Stiffness



Technical Data

Material:	Mild Steel
Material Type:	345 MPa
Finish:	H.D. Galv or Plain

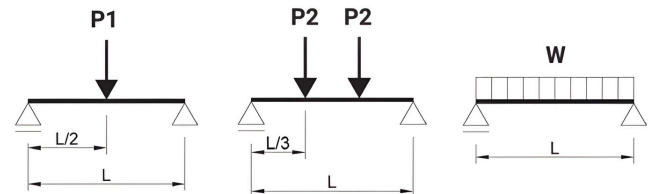
Data Summary

$f_y =$	345 MPa
$E =$	200 GPa

Section Properties	PART NO.	28PF806
	WEIGHT kg/m	5.76
	AREA OF SECTION mm ²	655
X-X AXIS	MOMENT OF INERTIA $I 10^6 \text{ mm}^4$	0.594
	SECTION MODULUS $Z 10^3 \text{ mm}^3$	15.83
	RADIUS OF GYRATION $r \text{ mm}$	30.11
Y-Y AXIS	MOMENT OF INERTIA $I 10^6 \text{ mm}^4$	0.594
	SECTION MODULUS $Z 10^3 \text{ mm}^3$	15.83
	RADIUS OF GYRATION $r \text{ mm}$	30.11

Data Summary

Thickness	3mm
Slot Size	15.5 x 65mm
Slot Spacing	80mm ctrs



SPAN (L) mm	P1 kg	P2 kg	W kg (UNIFORM)
1000	1494	1120	2805
1500	993	745	1986
2000	720*	422*	1157*
2500	456*	268*	730*
3000	313*	184*	500*
3500	225*	132*	360*
4000	168*	94*	269*
4500	128*	75*	205*
5000	99*	58*	159*
5500	77*	45*	124*
6000	60*	35*	97*

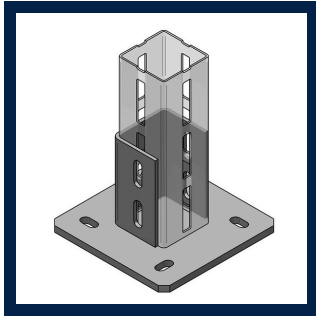
Capacity tables to AS4100. The allowable working loads calculated are based on the ultimate capacity of a simply supported beam, divided by a 1.5 factor. The mid-span deflection from working load has been limited to Span/200. The working loads include allowance for beam self-weight.

* Indicates working load governed by deflection.

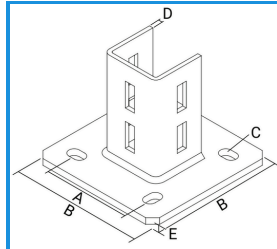
PowAFrame 80



PowAFrame 80 Base Plate



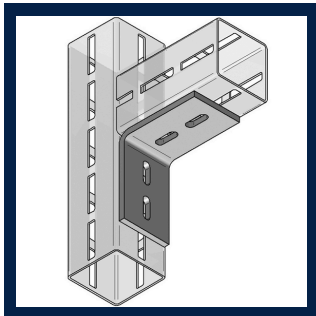
PART NO.	DESCRIPTION	FINISH
28PF80BP	PowAFrame 80 Base Plate	H.D. Galv.



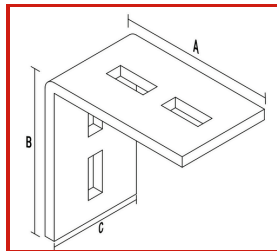
PART NO.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	SLOTS (mm)
28PF80BP	130	200	18 x 27	6	10	15.5 x 40

6 X SPBOLT-M12S REQUIRED UNO BY DESIGN DRAWING

PowAFrame 80 Angle Bracket



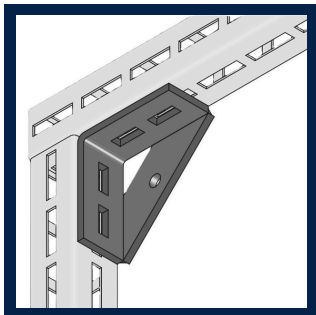
PART NO.	DESCRIPTION	FINISH
28PF80AB	PowAFrame 80 Angle Bracket	H.D. Galv.



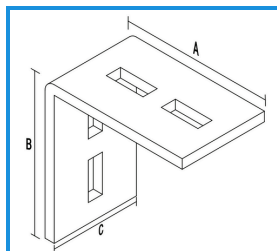
PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF80AB	150	150	65	10	15.5 x 40

4 X SPBOLT-M12S REQUIRED UNO BY DESIGN DRAWING

PowAFrame 80 Braced Angle Bracket



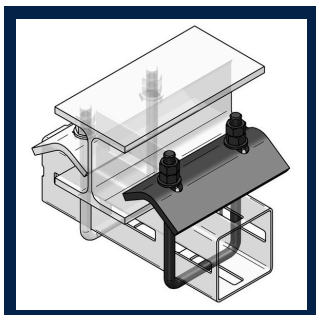
PART NO.	DESCRIPTION	FINISH
28PF80BB	PowAFrame 80 Braced Angle Bracket	H.D. Galv.



PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF80BB	150	150	65	10	15.5 x 40

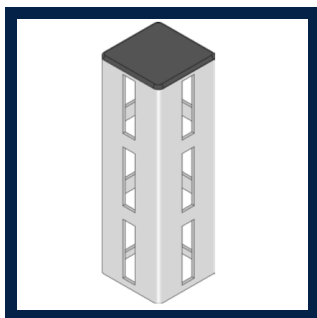
4 X SPBOLT-M12S REQUIRED UNO BY DESIGN DRAWING

PowAFrame 80 Beam Clamp



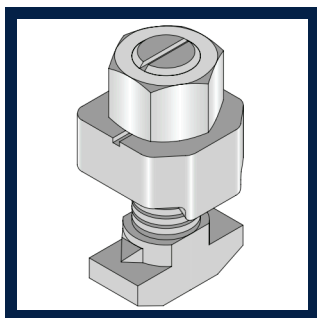
PART NO.	DESCRIPTION	FINISH
28PF80BC	PowAFrame 80 Beam Clamp	H.D. Galv.

PowAFrame 80 Black End Cap

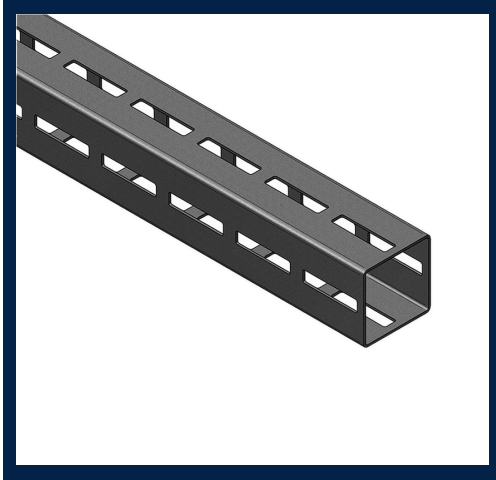


PART NO.	DESCRIPTION	COLOUR
28PF80EC	PowAFrame 80 End Cap	Black

PowAFrame Bolt M12 - PF80, PF100



PART NO.	DESCRIPTION	FINISH
28PFBM12	PowAFrame Bolt M12 - PF80, PF100	Zinc Nickel



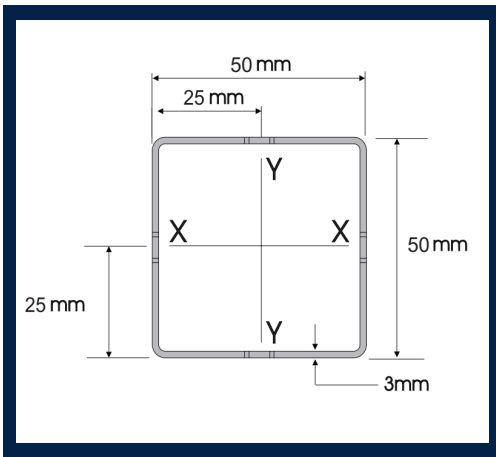
Dimensions:

50mm x 50mm x 6mtrs Beam

PowAFrame 80 offers a fully modular and adjustable support system, providing a cost-effective and time-efficient alternative to traditional welded construction methods.

Key Advantages:

- Labour Saving
- Advanced Bolting: 7.5kN per bolt
- Integrated Fittings & Bracing
- Compatible with PowAGroup Pipe Support Systems
- Quick Lead Times
- Dismountable
- High Torsion Stiffness



Technical Data

Material:	Mild Steel
Material Type:	345 MPa
Finish:	H.D. Galv or Plain

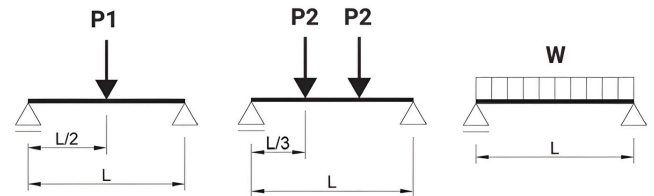
Data Summary

$f_y =$	345 MPa
$E =$	200 GPa

Section Properties	PART NO.	28PF506
	WEIGHT kg/m	3.67
	AREA OF SECTION mm ²	397
X-X AXIS	MOMENT OF INERTIA $I \times 10^6 \text{ mm}^4$	0.154
	SECTION MODULUS $Z \times 10^3 \text{ mm}^3$	6.160
	RADIUS OF GYRATION $r \text{ mm}$	19.70
Y-Y AXIS	MOMENT OF INERTIA $I \times 10^6 \text{ mm}^4$	0.154
	SECTION MODULUS $Z \times 10^3 \text{ mm}^3$	6.160
	RADIUS OF GYRATION $r \text{ mm}$	19.70

Data Summary

Thickness	3mm
Slot Size	12 x 46mm
Slot Spacing	56mm ctrs



SPAN (L) mm	P1 kg	P2 kg	W kg (UNIFORM)
500	1262	872	2094
750	840	630	1608
1000	629	441*	1202*
1250	480*	281*	767*
1500	332*	195*	531*
1750	242*	142*	388*
2000	184*	108*	295*
2250	144*	85*	230*
2500	115*	68*	184*
2750	94*	55*	150*
3000	77*	45*	124*

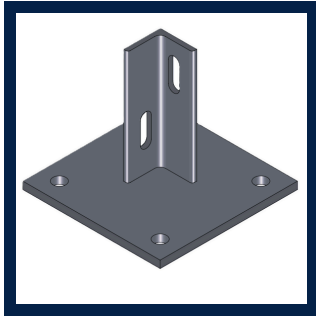
Capacity tables to AS4100. The allowable working loads calculated are based on the ultimate capacity of a simply supported beam, divided by a 1.5 factor. The mid-span deflection from working load has been limited to Span/200. The working loads include allowance for beam self-weight.

* Indicates working load governed by deflection.

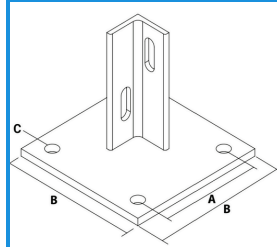
PowAFrame 50



PowAFrame 50 Base Plate



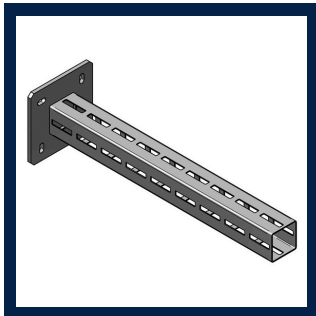
PART NO.	DESCRIPTION	FINISH
28PF50BP	PowAFrame 50 Base Plate	H.D. Galv.



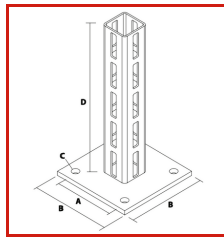
PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF50BP	108	150	140	6	12 x 40

2 X SPBOLT-S45-M10 REQUIRED UNO BY DESIGN DRAWING

PowAFrame 50 Base Plate Post



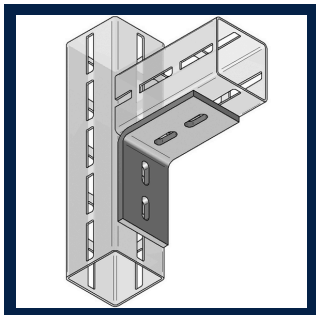
PART NO.	DESCRIPTION	FINISH
28PF50P1000	PowAFrame 50 Base Plate Post	H.D. Galv.
28PF50P1500	PowAFrame 50 Base Plate Post	H.D. Galv.



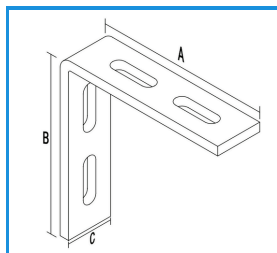
PART NO.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
28PF50P1000	108	150	110	1000	10
28PF50P1500	108	150	110	1500	10

CUSTOM LENGTHS AVAILABLE ON REQUEST

PowAFrame 50 Angle Bracket



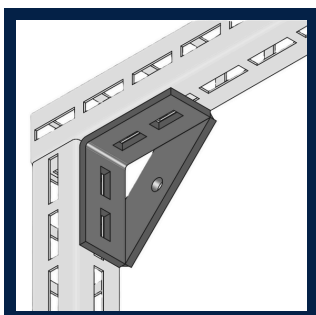
PART NO.	DESCRIPTION	FINISH
28PF50AB	PowAFrame 50 Angle Bracket	H.D. Galv.



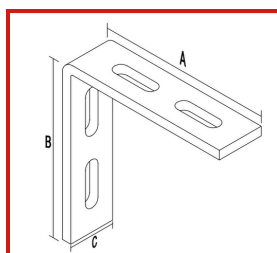
PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF50AB	150	150	40	6	12 x 40

4 X SPBOLT-S45-M10 REQUIRED UNO BY DESIGN DRAWING

PowAFrame 50 Braced Angle Bracket



PART NO.	DESCRIPTION	FINISH
28PF50BB	PowAFrame 50 Braced Angle Bracket	H.D. Galv.



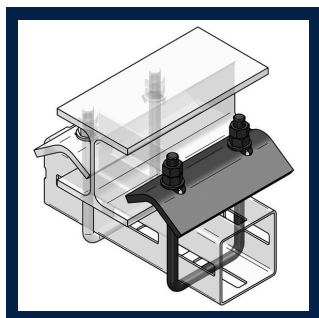
PART NO.	A (mm)	B (mm)	C (mm)	MATERIAL (mm)	SLOTS (mm)
28PF50BB	150	150	40	6	12 x 40

4 X SPBOLT-S45-M10 REQUIRED UNO BY DESIGN DRAWING

PowAFrame 50

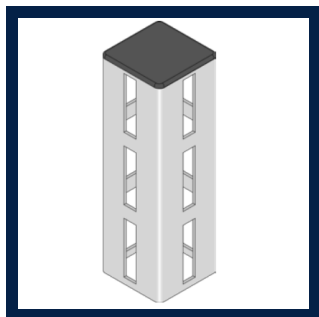


PowAFrame 50 Beam Clamp



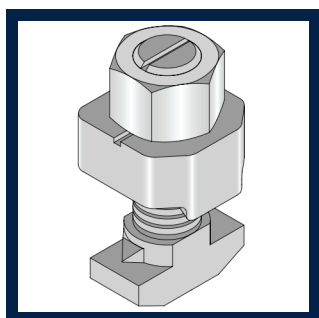
PART NO.	DESCRIPTION	FINISH
28PF50BC	PowAFrame 50 Beam Clamp	H.D. Galv.

PowAFrame 50 Black End Cap



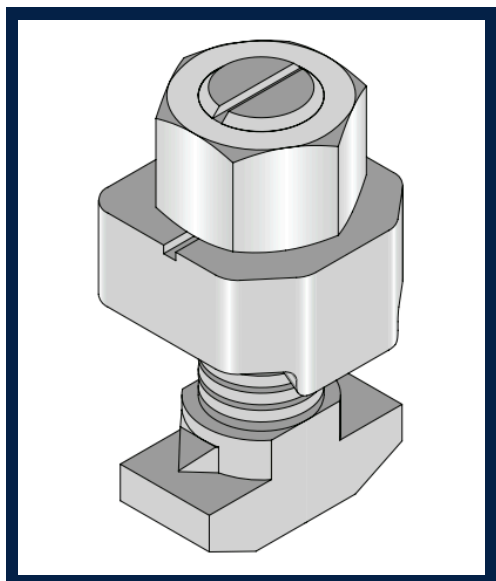
PART NO.	DESCRIPTION	COLOUR
28PF50EC	PowAFrame 50 End Cap	Black

PowAFrame Bolt M10 - PF50

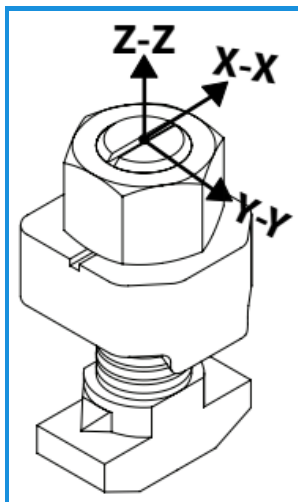


PART NO.	DESCRIPTION	FINISH
28PFBM10	PowAFrame Bolt M10 - PF50	Zinc Nickel

PowAFrame Bolt



PART NO.	DESCRIPTION	FINISH
28PFBM10	PowAFrame Bolt M10 - PF50	Zinc Nickel
28PFBM12	PowAFrame Bolt M12 - PF80, PF100	Zinc Nickel



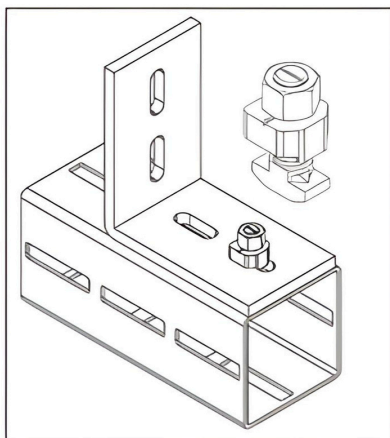
TECHNICAL DATA	PowAFrame Bolt M10
Material:	10.9 Grade steel
Finish:	ZINC-NICKEL

SPECIFICATION	
For Profile:	PowAFrame 50
Load Capacity:	X-X 7.5kN, Y-Y 7.5kN, Z-Z 3kN
Recommended Tightening Torque:	80Nm
Features:	Form-locking connection

The PowAFrame Bolt M10 is designed for use with fixings that have 12mm slots, which are compatible with PowAFrame 50.

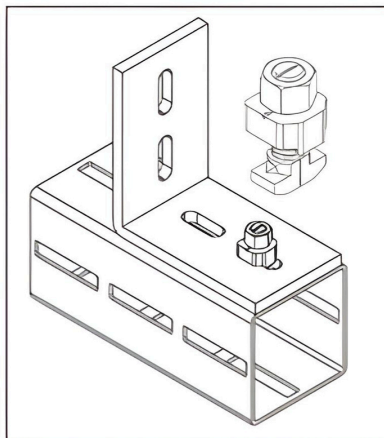
INSTALLATION GUIDE

FIGURE 1.



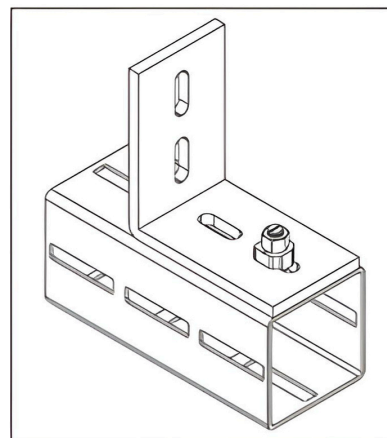
Place the bolt head through the bracket as per Figure 1.

FIGURE 2.



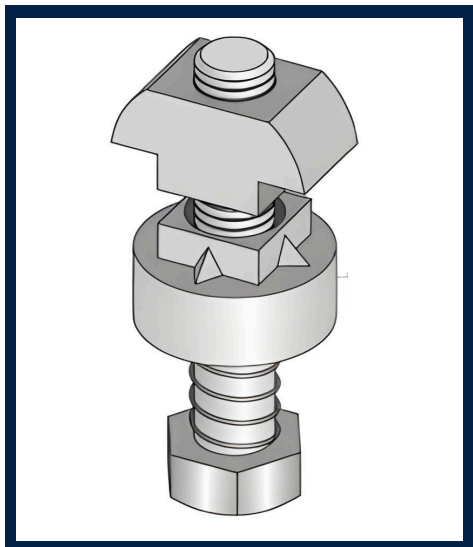
Turn the bolt head 90°, so that both locating lines on the bolt & washer are perpendicular to the slotted holes.

FIGURE 3.

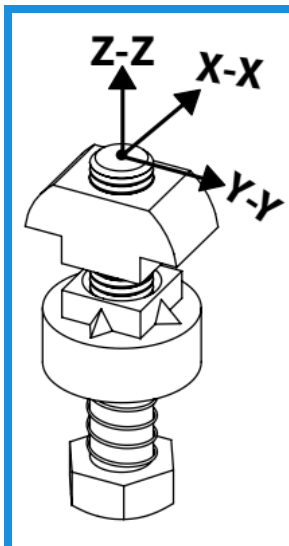


Check that the lock washer locates within the slotted hole. Tighten to 80Nm for M10.

Supa Spring Bolt M12



PART NO.	DESCRIPTION	FINISH
09SUPA100B12S	Supa Spring Bolt M12 (Suits PowAFrame PF80, PF100)	Zinc Nickel

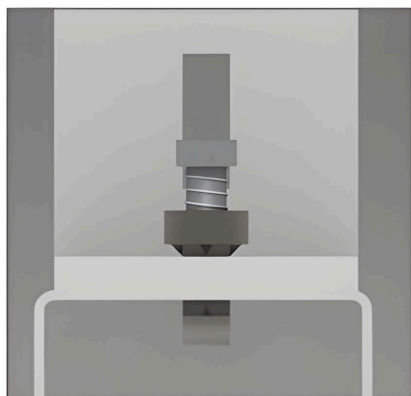


TECHNICAL DATA	Supa Spring Bolt M12
Material:	10.9 Grade steel
Finish:	ZINC-NICKEL

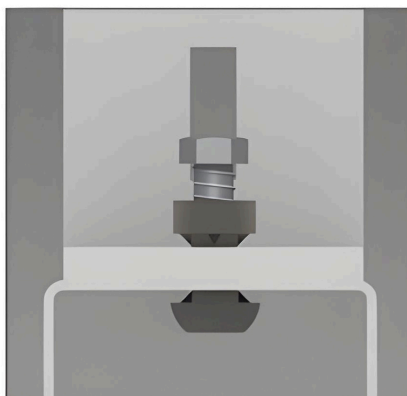
SPECIFICATION	
For Profile:	PowAFrame 80 & 100
Load Capacity:	X-X: 10kN, Y-Y: 10kN, Z-Z: 3kN
Recommended Tightening Torque:	100Nm
Features:	Form-locking connection

The Supa Spring Bolt M12 is designed for use with fixings that come with 15.5mm slots to suit PowAFrame 80 & PowAFrame 100.

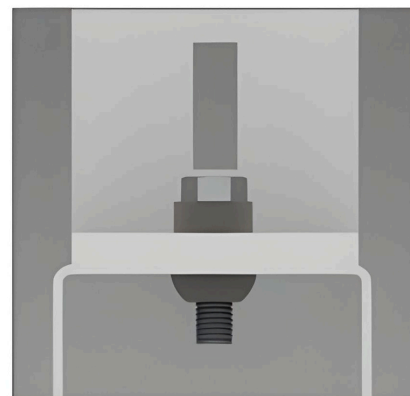
INSTALLATION GUIDE



Insert Supabolt through fitting and frame section.



Push down bolt head and rotate 90° allow it to lock in place.



Tighten to 100Nm for M12.

PowAFrame Gallery



PowAFrame Gallery





POWA **Group**