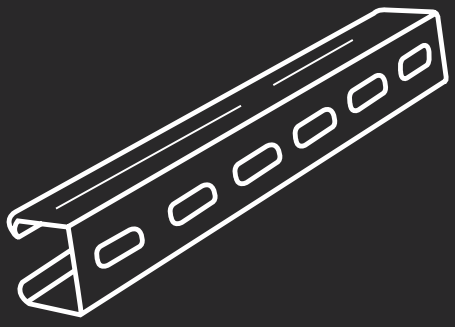
Orbital FIRE LTD

Technical Product Specifications:

STRUT



Approval/calculation possibilities:

- AS/NZS 4600:2018
- NZS 4100:2020
- NZS1170.5:2009
- NZS 4219:2009
- NZS 4541:2020
- AS/NZS 4680:2006

Orbital Fire Ltd

ORBITAL FIRE STRUT

Strut is one of the core components of building service systems, this includes the Mechanical, Electrical, Plumbing and Fire Sprinkler trades. This light weight product supports heavy loads ideal for supporting cable trays, pipework, building services equipment, ceiling support grids and seismic bracing for all non-structural building.

Strut is a time and money saving alternative to traditional support methods by eliminating the need for welding and drilling. It also provides superior flexibility due to its modular nature. With varying levels of corrosion resistant available, product and documentation can be supplied to suit the specific requirements of a project.

Simple to install, Orbital Strut can be used for supports in applications where space is limited.

Orbital offers a full range of strut with over 40 different sizes/finishes and configurations, along with 200+ fittings available in stock to service any site conditions you may encounter.

Advantages of using Orbital STRUT

- Saves you time and money.
- Supports heavy loads.
- Lightweight design.
- No need for welding or drilling.
- Corrosion Resistant.
- Simple and easy to install.
- Huge range of sizes, finishings and fittings.

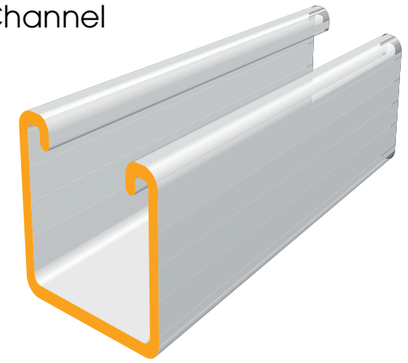
Contents

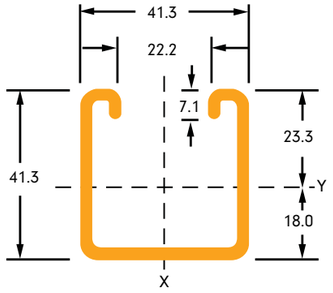
Engineering Notes for Strut Tables

- Loads shown in the engineering tables are calculated in accordance with AS/NZS 4600:2018 Cold-formed Steel Structures.
- Allowable loads calculated from ultimate loads divided by 1.5. (Safety factor of 1.5.)
- The guaranteed minimum yield stress Fy has been taken as 264 MPa for Strut, and the increase allowed resulting from cold forming has been using AS/NZD 4600.
- Beam load (and resulting deflection) are applied to a simply supported span (without full lateral restraint), about the Y-Y axis only.
- Beam self weight has been considered, the load provided is the additional allowable load that may be applied.
- Concentric column load is axially applied at centroid.

ORB-1000

Solid Strut Channel





ORB-1000							
Span (mm)	Simply Supported Beam				Column		
	Uniform Distrubuted Load		Point Load		Concentric Axial Load		
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)		
200	15.41	0.11	8.82	0.10	46.4		
400	9.06	0.52	4.76	0.44	40.2		
600	6.28	1.22	3.18	0.99	33.6		
800	4.75	2.18	2.41	1.77	26.8		
1000	3.82	3.43	1.91	2.74	21.4		
1200	3.21	4.98	1.59	3.94	17.4		
1400	2.76	6.79	1.38	5.45	14.6		
1600	2.39	8.79	1.21	7.09	12.3		
1800	2.13	11.14	1.06	8.87	10.6		
2000	1.92	13.77	0.97	11.15	9.5		
2200	1.76	16.82	0.88	13.49	8.1		
2400	1.61	19.96	0.79	15.76	7.5		
2600	1.48	23.40	0.74	18.55	6.6		
2800	1.38	27.25	0.68	21.32	5.8		
3000	1.29	31.21	0.65	25.08	-		

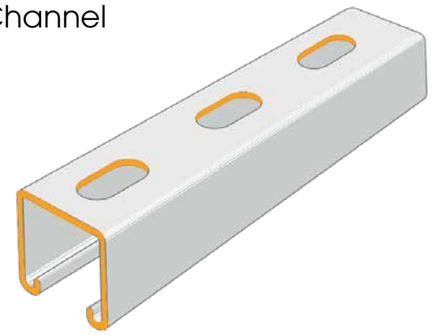
ORB-1000							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
2.60	331	0.070	3.052	14.5	0.092	4.448	16.6

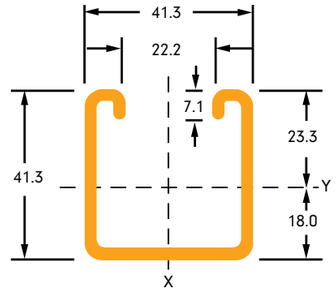
ORB-1000		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

Orbital Fire Ltd

ORB-1000T

Slotted Strut Channel





**14mm x 30mm holes at 50mm centers*

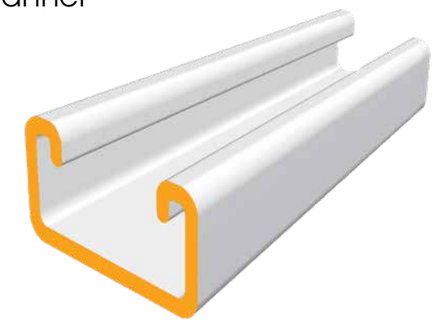
ORB-1000T							
Span (mm)	Simply Supported Beam				Column		
	Uniform Distrubuted Load		Point Load		Concentric Axial Load		
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)		
200	13.24	0.10	7.41	0.09	42.4		
400	7.41	0.43	3.82	0.35	36.4		
600	5.08	0.99	2.56	0.79	30.1		
800	3.81	1.75	1.94	1.43	24.2		
1000	3.06	2.74	1.55	2.23	19.1		
1200	2.58	3.99	1.29	3.21	15.7		
1400	2.19	5.39	1.11	4.38	13.0		
1600	1.93	7.09	0.97	5.71	11.1		
1800	1.73	9.03	0.85	7.14	9.6		
2000	1.55	11.15	0.78	8.92	8.3		
2200	1.40	13.35	0.71	10.79	7.4		
2400	1.28	15.94	0.65	12.84	6.7		
2600	1.19	18.81	0.59	14.99	5.9		
2800	1.09	21.41	0.55	17.43	5.2		
3000	1.02	24.80	0.52	20.07	-		

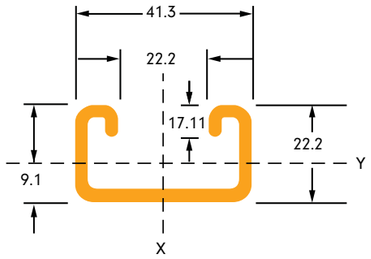
ORB-1000T							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
2.41	298	0.060	2.756	14.2	0.091	4.415	17.5

ORB-1000T		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

ORB-3300

Solid Strut Channel





ORB-3300					
	Simply Supported Beam				Column
Span (mm)	Uniform Distrubuted Load		Point Load		Concentric Axial Load
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)
200	5.71	0.22	3.29	0.18	36.3
400	3.29	1.02	1.71	0.74	30.6
600	2.26	2.38	1.12	1.64	24.4
800	1.72	4.26	0.85	2.97	17.9
1000	1.38	6.70	0.68	4.60	12.2
1200	1.15	9.72	0.56	6.57	8.8
1400	0.99	13.26	0.49	9.23	6.5
1600	0.87	17.15	0.44	12.13	4.7
1800	0.77	21.74	0.38	15.17	-
2000	0.69	26.87	0.35	18.89	-
2200	0.62	32.82	0.31	22.59	-
2400	0.58	38.97	0.29	27.11	-
2600	0.54	45.67	0.26	31.66	-
2800	0.49	53.19	0.25	36.91	-
3000	0.46	60.92	0.23	42.15	-

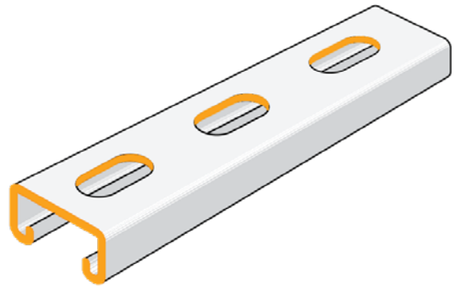
ORB-3300							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
1.84	234	0.014	1.085	7.7	0.056	2.675	15.4

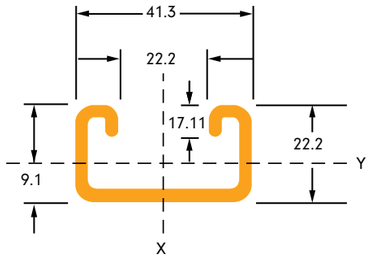
ORB-3300		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

Orbital Fire Ltd

ORB-3300T

Slotted Strut Channel





14mm x 30mm holes at 50mm centers

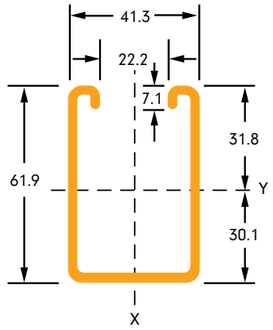
ORB-3300T					
	Simply Supported Beam				Column
Span (mm)	Uniform Distrubuted Load		Point Load		Concentric Axial Load
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)
200	4.82	0.21	2.68	0.18	32.6
400	2.68	0.91	1.38	0.75	27.4
600	1.82	2.09	0.92	1.70	22.0
800	1.36	3.71	0.69	3.02	16.2
1000	1.10	5.85	0.55	4.70	10.8
1200	0.92	8.49	0.46	6.74	7.8
1400	0.79	11.53	0.39	9.20	5.8
1600	0.70	15.17	0.35	12.09	4.2
1800	0.61	19.04	0.31	15.17	-
2000	0.55	23.52	0.28	18.81	-
2200	0.50	28.57	0.25	22.91	-
2400	0.45	33.20	0.23	26.98	-
2600	0.43	40.01	0.21	31.66	-
2800	0.40	46.13	0.19	36.25	-
3000	0.37	53.19	0.18	41.88	-

ORB-3300T							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
1.68	198	0.012	9.874	7.6	0.055	2.658	16.5

ORB-3300T		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

ORB-5500

Solid Strut Channel



ORB-5500							
Span (mm)	Simply Supported Beam				Column		
	Uniform Distrubuted Load		Point Load		Concentric Axial Load		
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)		
200	28.06	0.08	17.06	0.07	59.2		
400	17.18	0.38	9.12	0.32	50.3		
600	12.00	0.88	6.18	0.71	41.1		
800	9.18	1.58	4.65	1.29	31.6		
1000	7.38	2.49	3.71	1.99	22.9		
1200	6.21	3.61	3.12	2.86	18.4		
1400	5.32	4.92	2.68	3.95	15.2		
1600	4.67	6.37	2.32	5.14	12.8		
1800	4.16	8.07	2.09	6.43	11.1		
2000	3.74	9.98	1.88	8.08	10.0		
2200	3.40	12.19	1.71	9.78	8.9		
2400	3.12	14.47	1.56	11.43	8.1		
2600	2.86	16.96	1.44	13.45	7.4		
2800	2.68	19.76	1.34	15.46	6.9		
3000	2.51	22.63	1.25	18.18	6.4		

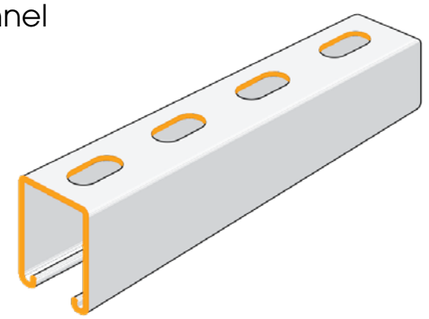
ORB-5500							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
3.41	434	0.199	5.854	21.4	0.131	6.324	17.3

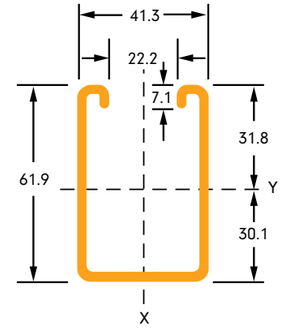
ORB-5500		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

Orbital Fire Ltd

ORB-5500T

Slotted Strut Channel





14mm x 30mm holes at 50mm centers

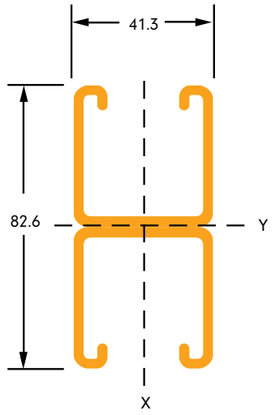
ORB-5500T							
Span (mm)	Simply Supported Beam				Column		
	Uniform Distrubuted Load		Point Load		Concentric Axial Load		
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)		
200	24.47	0.07	14.18	0.07	53.4		
400	14.12	0.34	7.35	0.28	45.3		
600	9.71	0.78	4.97	0.64	37.1		
800	7.39	1.40	3.74	1.13	28.7		
1000	5.88	2.18	3.00	1.78	21.4		
1200	4.94	3.17	2.50	2.56	16.8		
1400	4.28	4.36	2.15	3.50	13.7		
1600	3.72	5.65	1.88	4.58	11.6		
1800	3.34	7.21	1.67	5.78	10.0		
2000	3.00	8.90	1.50	7.12	8.9		
2200	2.72	10.73	1.35	8.55	8.0		
2400	2.50	12.81	1.25	10.28	7.2		
2600	2.29	14.96	1.15	12.03	6.8		
2800	2.14	17.43	1.07	13.95	6.2		
3000	1.99	19.97	1.00	16.02	5.8		

ORB-5500T							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
3.22	399	0.172	5.486	20.8	0.130	6.298	18.0

ORB-5500T		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

ORB-1001

Solid Strut Channel



ORB-1001					
Span (mm)	Simply Supported Beam				Column
	Uniform Distrubuted Load		Point Load		Concentric Axial Load
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)
200	31.16	0.07	26.47	0.12	98.4
400	21.21	0.31	13.24	0.47	95.4
600	15.40	0.73	8.82	1.06	91.7
800	11.98	1.31	6.59	1.88	86.8
1000	9.63	2.06	5.29	2.95	80.9
1200	8.09	2.99	4.41	4.25	73.8
1400	7.03	4.08	3.76	5.77	66.6
1600	6.18	5.27	3.32	7.58	59.1
1800	5.53	6.68	2.94	9.57	51.6
2000	4.98	8.26	2.65	11.82	44.2
2200	4.53	10.09	2.41	14.33	37.3
2400	4.13	11.98	2.21	17.02	31.6
2600	3.81	14.04	2.03	19.91	26.8
2800	3.53	16.35	1.89	23.13	23.0
3000	3.31	18.73	1.76	26.59	21.1

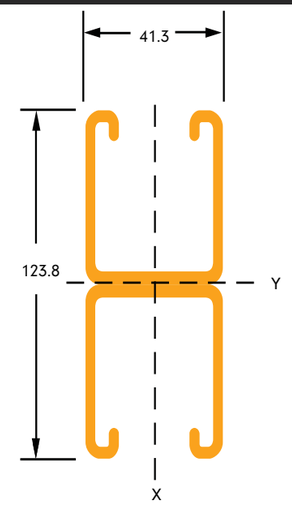
ORB-1001							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
5.20	662	0.343	8.216	22.8	0.184	8.894	16.7

ORB-1001		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

Orbital Fire Ltd

ORB-5501

Solid Strut Channel



ORB-5501					
Span (mm)	Simply Supported Beam				Column
	Uniform Distrubuted Load		Point Load		Concentric Axial Load
	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)	Deflection (mm)	Allowable Load (kN)
200	26.54	0.04	50.26	0.09	123.1
400	26.54	0.21	27.79	0.34	119.8
600	26.54	0.49	18.42	0.77	115.6
800	25.39	0.87	13.89	1.36	110.1
1000	20.87	1.37	11.05	2.14	103.6
1200	17.74	1.99	9.26	3.08	95.7
1400	15.22	2.72	7.89	4.18	87.3
1600	13.57	3.51	6.95	5.50	78.5
1800	12.13	4.45	6.18	6.94	69.6
2000	10.88	5.51	5.56	8.57	61.1
2200	9.95	6.73	5.03	10.39	52.6
2400	9.13	7.99	4.63	12.34	44.8
2600	8.48	9.36	4.28	14.43	38.1
2800	7.85	10.90	3.98	16.77	32.8
3000	7.37	12.48	3.71	19.28	28.4

ORB-5501							
Section Properties		Y-Y Axis			X-X Axis		
Weight kg/m	Area of Section mm^2	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm	Moment of Inertia I 10^6 mm^4	Sectional Modulus Z 10^3 mm^4	Radius of Gyration r mm
6.74	870	1.072	17.458	35.2	0.261	12.662	17.4

ORB-5501		
Thickness	Material	Finish
2.5mm	Mild Steel, Minimum Yield strength Fy = 235MPa Minimum Tensile strength Fu = 370MPa	Plain, Pre Galvanised (Z275), Hot Dip Galvanised (55µm), SS316 Stainless Steel. (Other finishes or coatings available on request e.g. Power Coated)

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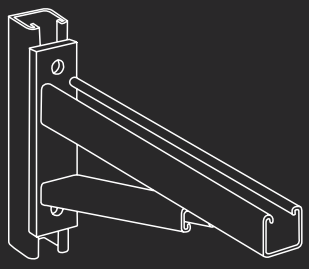

Technical
Product Specifications:

STRUT BRACKETRY

Approval/calculation possibilities:

- AS/NZS 4600:2018
- NZS 4100:2020
- NZS1170.5:2009
- NZS 4219:2009
- NZS 4541:2020
- AS/NZS 4680:2006

STRUT BRACKETRY

Orbital stocks a wide range of Strut Channel Brackets, a crucial part of the modular nature of the Orbital Channel System. The different brackets available allow you to create many different frames and assemblies to meet your support requirements. The Spring Nut fastening system creates a proven connection that gives strength and versatility to your build.

Orbital Strut Brackets are critical for creating rigid seismic bracing assemblies. With a wide range of fixed and hinged backets available this strong and easy to install bracing systems gives you the options you require. The Orbital Strut Brackets are stocked standard as Hot Dip Galvanized, however are also available in ZP, Stainless Steel or painted finishes if required.

Advantages of using STRUT BRACKETRY

- Wide range of bracketry.
- Multiple combinations for assembly.
- Simple Spring Nut connection system.
- Easy to Install.
- Removes need for welding and drilling.

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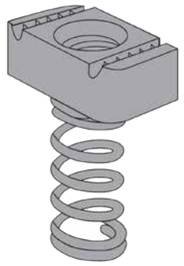
Contents

Spring Nut

- **Safety Factor:** 3
- **Finishes Available:** Zinc Plate, Hot Dip Galvanised, Stainless Steel SS316

Zinc Spring Nut			
Nut Type	**Pullout**	**Slip (8.8 Bolts)**	**Torque**
NUTM6SLSZ	2.70 kN	1.30 kN	9 Nm
NUTM8SLSZ	3.55 kN	2.20 kN	22 Nm
NUTM10SLSZ	4.45 kN	3.50 kN	44 Nm
NUTM12SLSZ	8.85 kN	6.50 kN	77 Nm

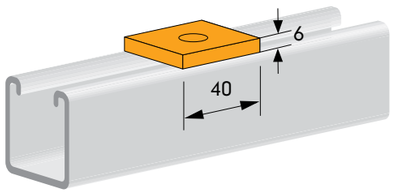
- Slip testing carried out in New Zealand using 8.8 Grade Zinc Bolts.
- Strut Bracketing Capacity usually limited by Slip Capacity of Spring Nut.



Flat Plate

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

Square Plate Washers	
Code	**Hole Size**
W8X40SQX6G	M8
W10X40SQX6G	M10
W12X40SQX6G	M12
W16X40SQX6G	M16



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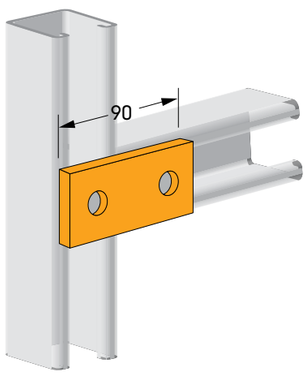

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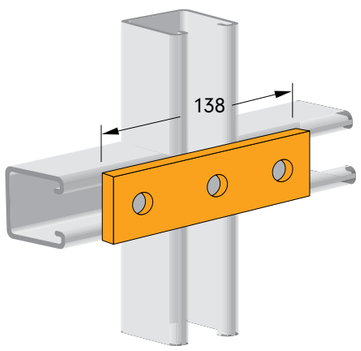

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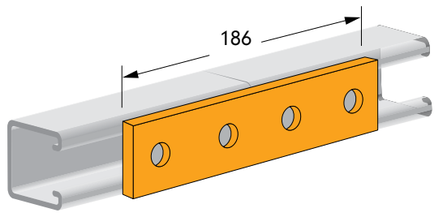
Flat Plate

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-1067G



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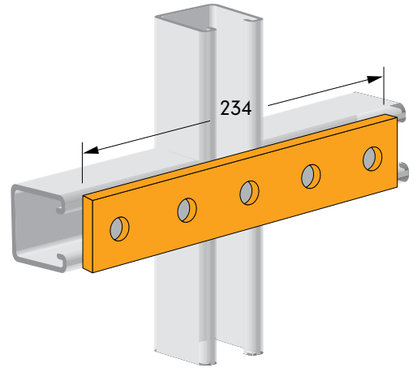

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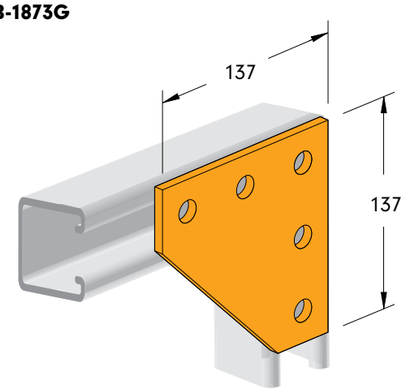

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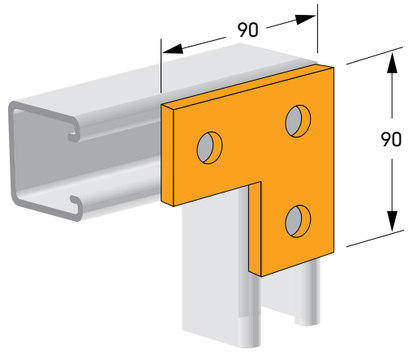

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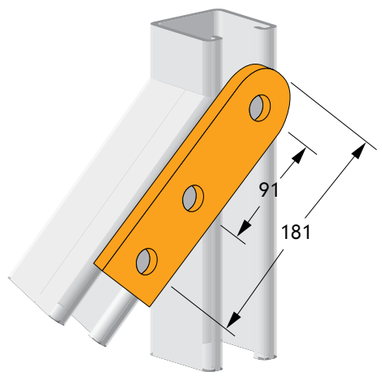

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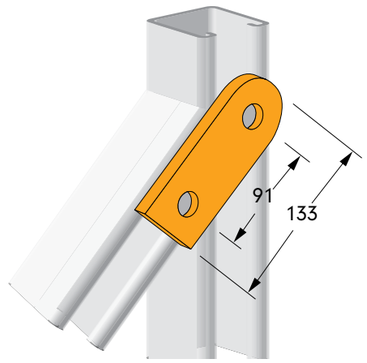
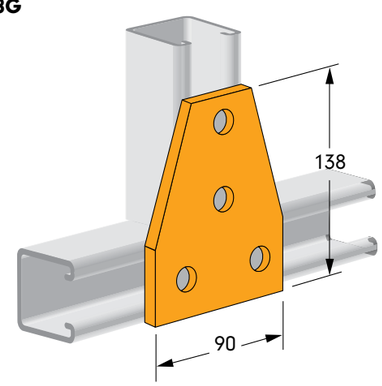


Flat Plate & 90° Angle

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-1358G



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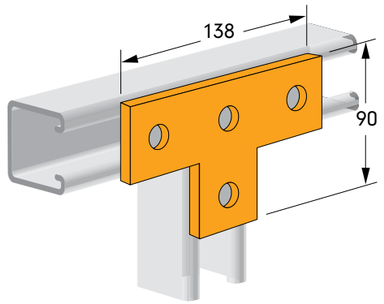

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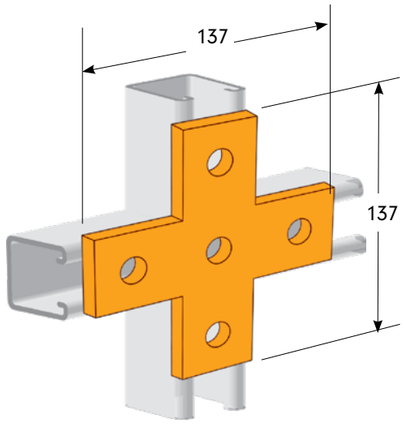

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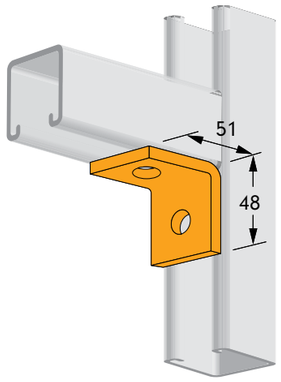

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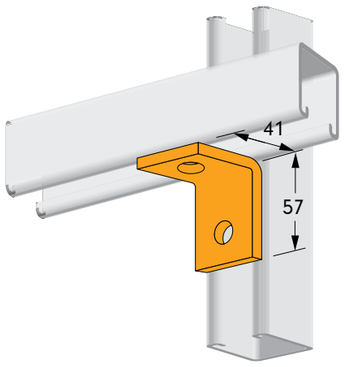

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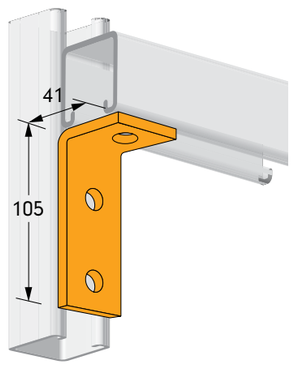

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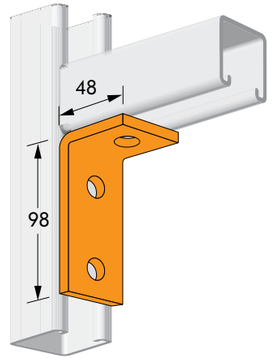
90° Angle

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-1346G



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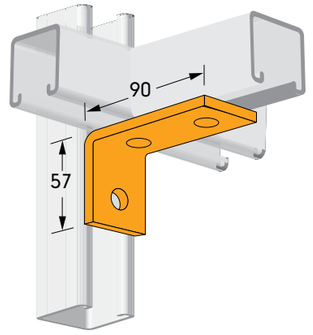

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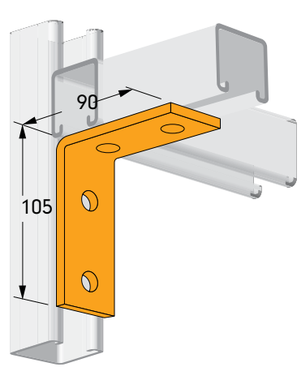

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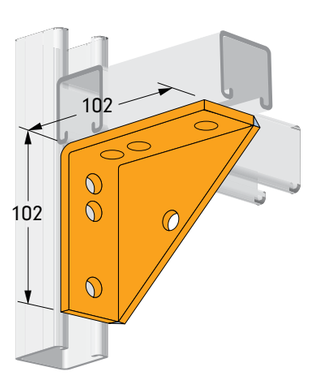

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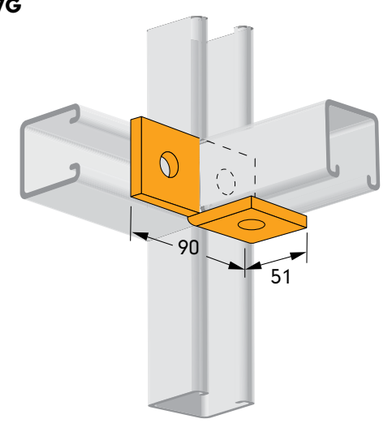

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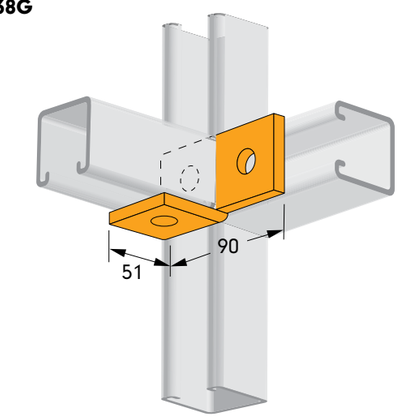
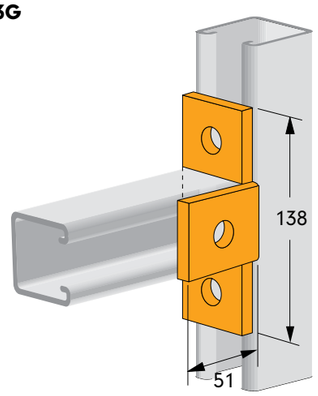


90° & 45° Angle

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-1033G



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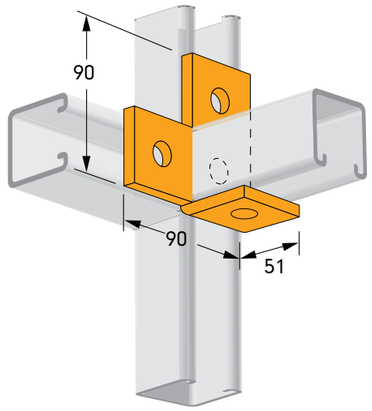

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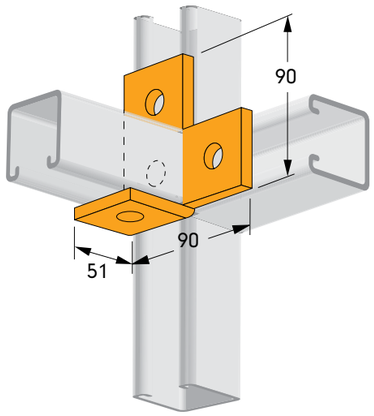

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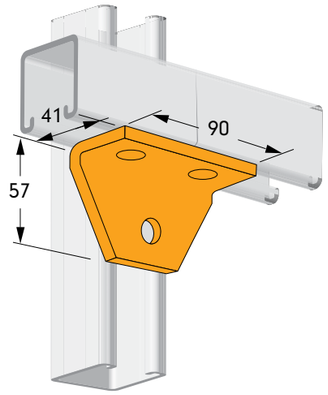

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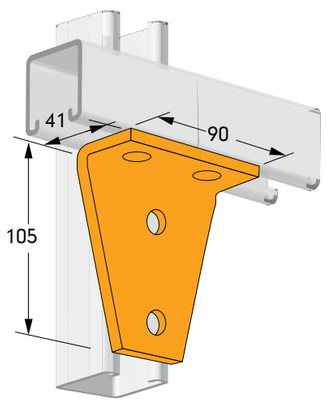

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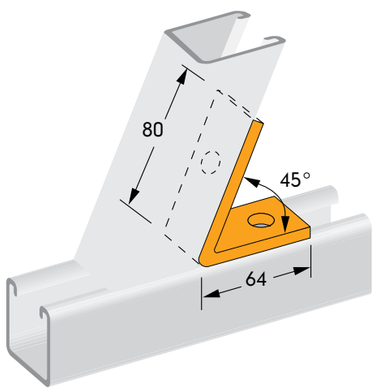

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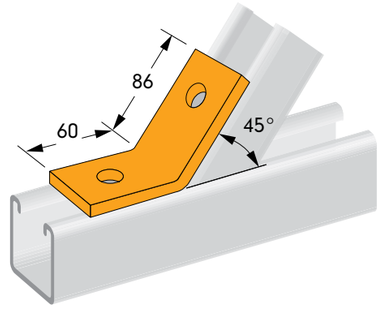
45° Angle

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-1546G



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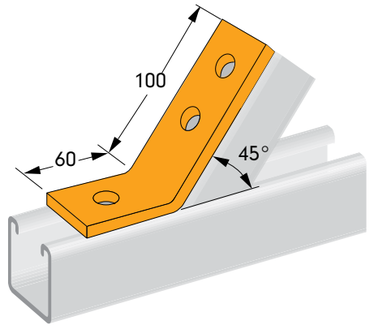

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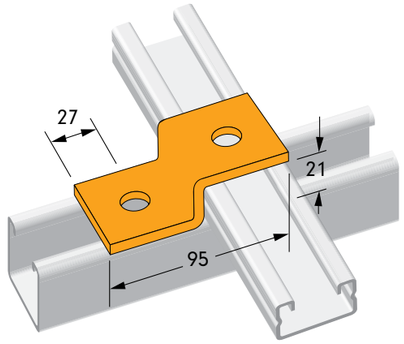

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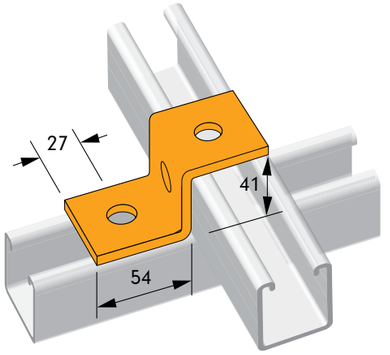

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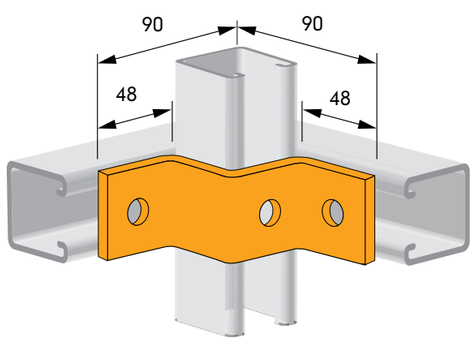
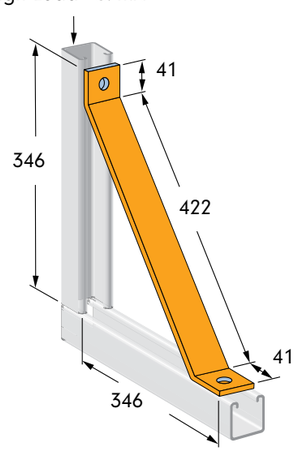


ORB-2452G

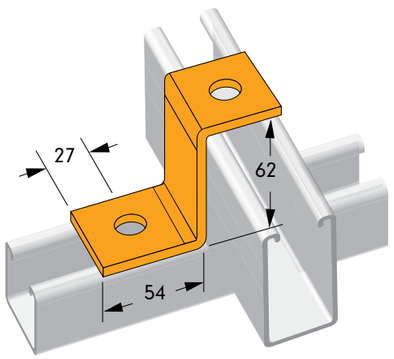
Design Load - 5.4kN



"Z", "U"

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-5545G



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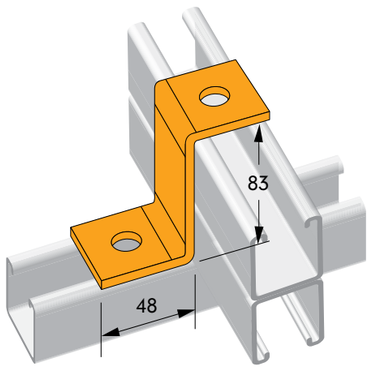

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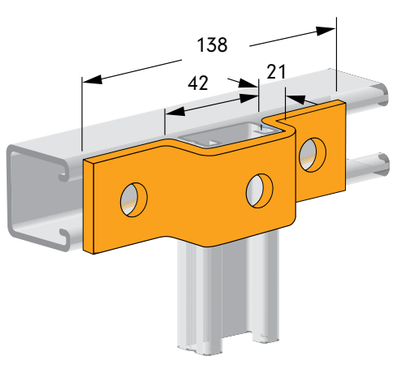

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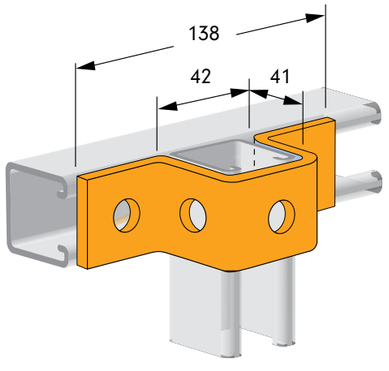

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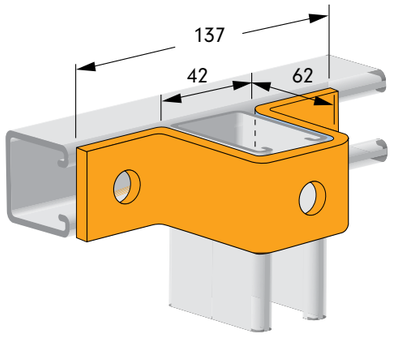

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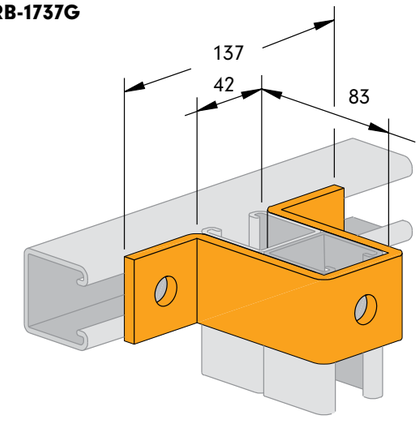
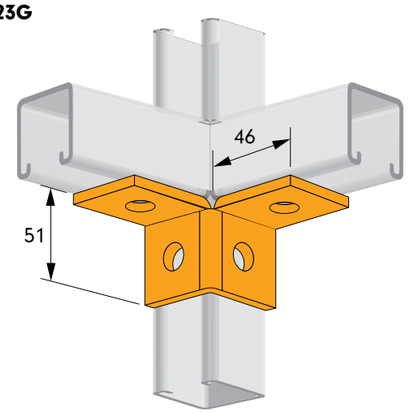


"U" & Wing Shape

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-2223G



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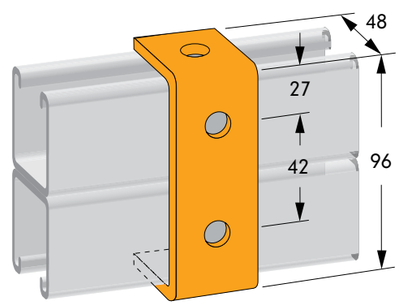

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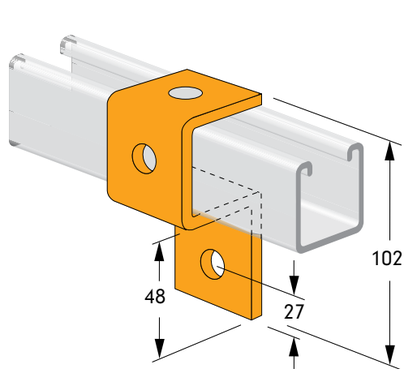

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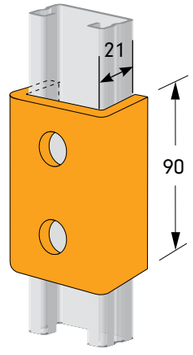

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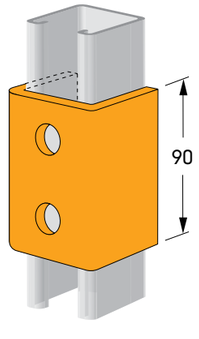

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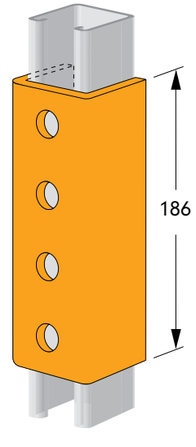
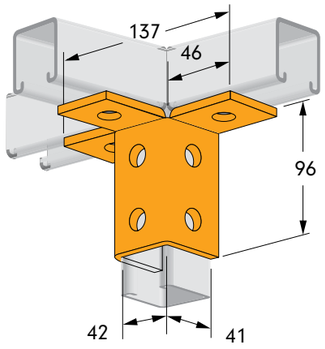


Wing Shape

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

ORB-2228G



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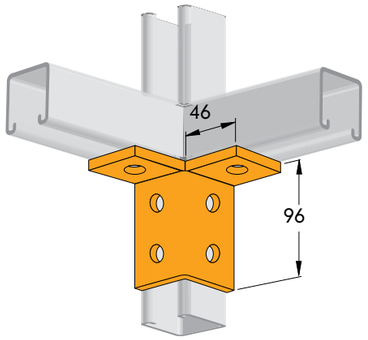

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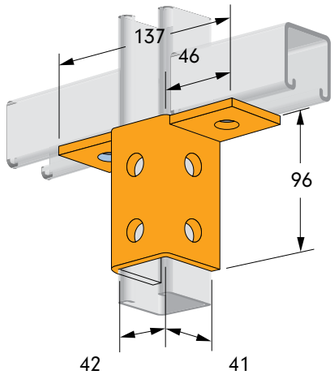
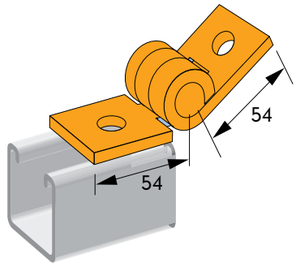


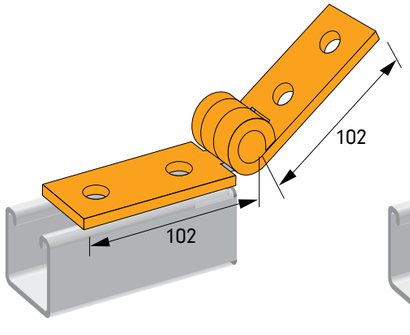
Adjustable Brace Fittings

- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

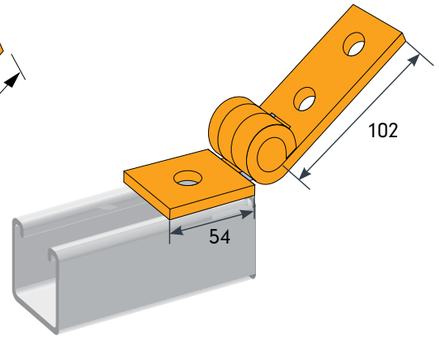
ORB-1843G



ORB-1354G



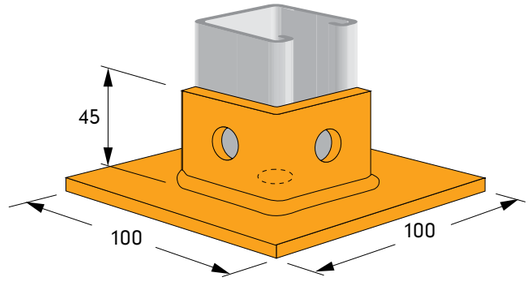
ORB-1354AG

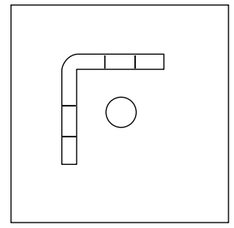


Base Plates

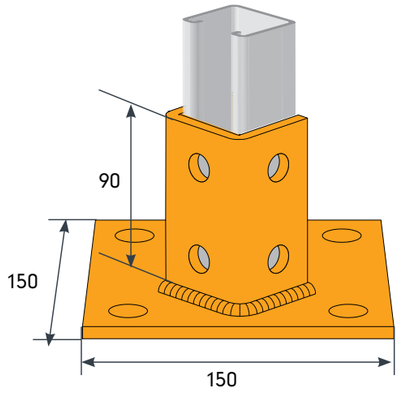
- **Hole Diameter:** 14mm
- **Hole Spacing (From End):** 21mm
- **Hole Spacing:** 48mm
- **Width:** 40mm
- **Thickness:** 6mm
- **Finish:** Hot Dip Galvanised

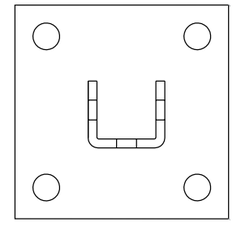
ORB-2072SIG



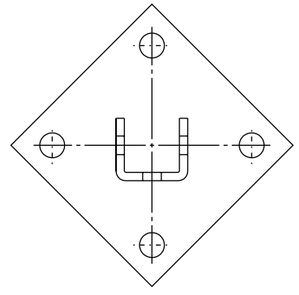


ORB-2072BG & ORB-2072AG



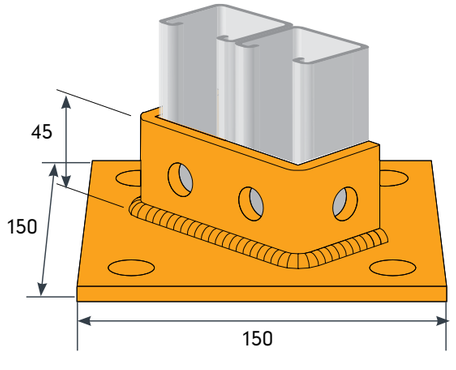


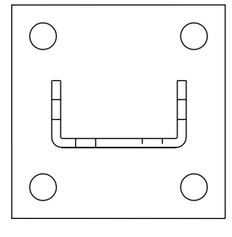
ORB-2072G



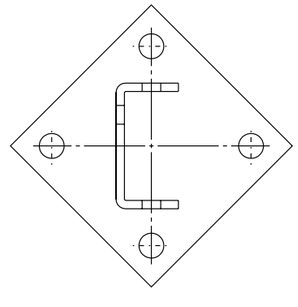
ORB-2072AG

ORB-2073BG & ORB-2073AG





ORB-2073G

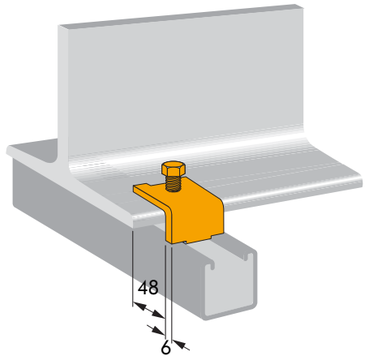


ORB-2073AG

Beam Clamps

ORB-1386G

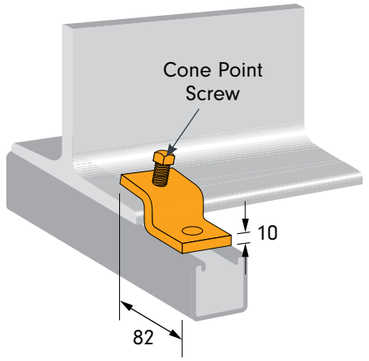
- **Design Load:** 2.5 kN (Using the FDG1000 channel)
- **Finish:** Hot Dip Galvinised



- M12 x 40 bolt and channel nut not included.
- Ensure these brackets are used in pairs.

ORB-1379G

- **Design Load:** 2.5 kN (Using the FDG1000 channel)
- **Finish:** Hot Dip Galvinised

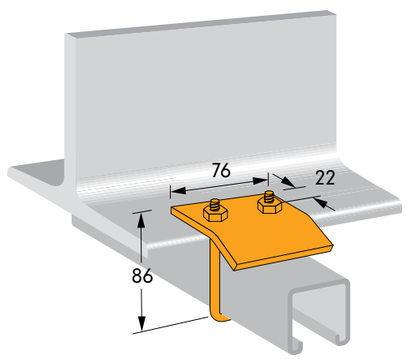


- M12 x 40 cone point screw included.
- Ensure these brackets are used in pairs.

ORB-2785G & ORB-2786G

FDG2785G (Works with FDG1000 & FDG3300)
- **Leg Length:** 86mm
- **Design Load:** 4.5 kN each
- **Finish:** Hot Dip Galvinised

FDG2786G (Works with FDG1001 & FDG5500)
- **Leg Length:** 127mm
- **Design Load:** 4.5 kN
- **Finish:** Hot Dip Galvinised



- Ensure these brackets are used in pairs.

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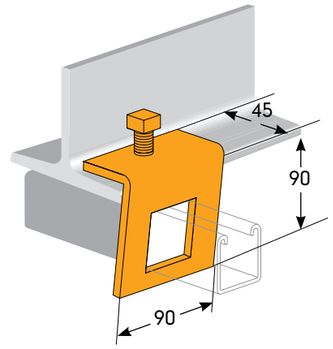
Beam Clamps

ORB-1796G

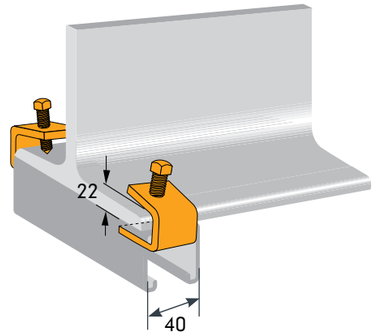
- **Design Load:** 2.5 kN (Using the FDG1000 channel)
- **Finish:** Hot Dip Galvinised



- M12 x 40 cone point screw included.
- Ensure these brackets are used in pairs.

ORB-1272G

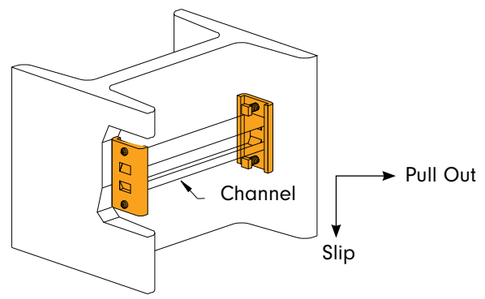
- **Design Load:** 2.0 kN
- **Finish:** Hot Dip Galvinised



- M12 x 40 cone point screw included.
- Ensure these brackets are used in pairs.

ORB-3087G

- **Design Pull-out Load:** 4.5 kN (Using FDG1000)
- **Design Slip Load:** 3.5 kN (Using FDG1000)
- **Finish:** Hot Dip Galvinised

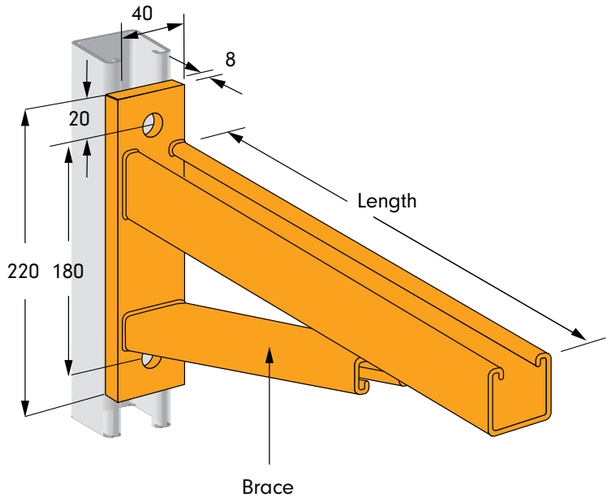


- Ensure these brackets are used in pairs.
- M12 x 40 cone point screw included.

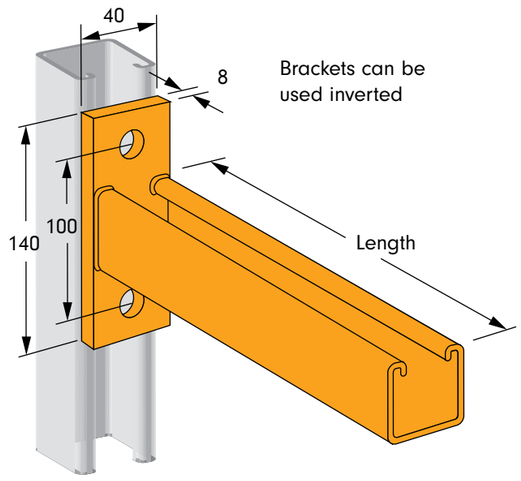
Cantilever Brackets

- **Hole Size:** 14mm
- **Finish:** Hot Dip Galvinised

Braced Cantilever Bracket		
Code	**Length**	**Design Load - UDL**
ORB-CB320G	320 mm	8.81 kN
ORB-CB470G	470 mm	3.43 kN
ORB-CB635G	635 mm	3.38 kN
ORB-CB780G	780 mm	1.72 kN
ORB-CB930G	900 mm	1.47 kN
ORB-CB1080G	1080 mm	0.85 kN



Un-Braced Cantilever Bracket		
Code	**Length**	**Design Load - UDL**
ORB-UBC150G	150 mm	4.85 kN
ORB-UBC300G	300 mm	2.35 kN
ORB-UBC450G	450 mm	1.60 kN
ORB-UBC600G	600 mm	1.25 kN
ORB-UBC750G	750 mm	1.05 kN
ORB-UBC900G	900 mm	0.75 kN
ORB-UBC1000G	1000 mm	0.55 kN



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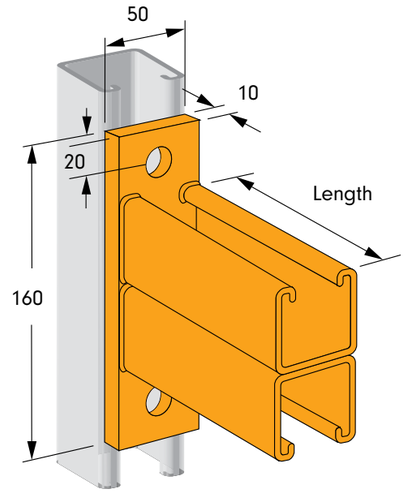
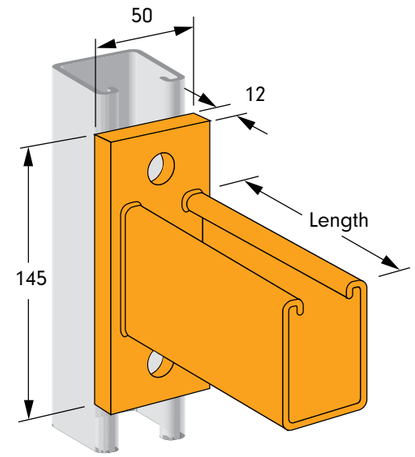
Cantilever Brackets

- **Hole Size:** 14mm
- **Finish:** Hot Dip Galvinised

Back to Back Cantilever Bracket		
Code	**Length**	**Design Load - UDL**
ORB-CB2B305G	305 mm	7.50 kN
ORB-CB2B460G	460 mm	5.20 kN
ORB-CB2B610G	610 mm	4.10 kN
ORB-CB2B760G	760 mm	3.20 kN
ORB-CB2B915G	915 mm	2.65 kN



FDG5500G Cantilever Bracket		
Code	**Length**	**Design Load - UDL**
ORB-CBH300G	300 mm	6.95 kN
ORB-CBH450G	450 mm	4.80 kN
ORB-CBH600G	600 mm	3.60 kN
ORB-CBH750G	750 mm	2.90 kN



sales@orbitalfire.co.nz

20 Mansel Dr, Warkworth, Auckland 0910 New Zealand

09 255 5575