VANTRUNK

VANTRUNK INTELOK

03

SLIP RESISTANT INTELOK SERRATED CHANNEL

THE INTELOK STEEL FRAMING SYSTEM IS A STRONG, EASY TO ERECT SUPPORT SYSTEM, IDEAL FOR SUPPORTING VANTRUNK CABLE TRAY, CABLE LADDERS, TRUNKING, PIPES AND DUCTING.

Rapid Installation Systems

Withstands extreme temperatures (-50° to +50°C)

HOW TO ORDER

CODE SYSTEM EXPLAINED

The information given on this page should be used as a guide when ordering channel, fittings, covers and accessories. For more detailed information and examples refer to the relevant page within the catalogue.

Intelok Channel

System Type	Product Group	Channel Type	Slotting Type	Length	Finish & Material
eg. IC	CNL	D	P	SL3	SS

Intelok Channel, Channel, Deep, Plain, 3 metre length, Stainless Steel

Intelok Brackets

System Type	Bracket Type	Finish & Material	Quickfit Option
eg. 325	AJ12	GA	QF

Intelok Channel, Channel, Deep, Plain, 3 metre length, Stainless Steel

Concrete Inserts

System Type	Product Group	Channel Type	Length	Finish & Material
eg. IC	CON	D	SL3	SS

Intelok Channel, Concrete Insert, Deep, 3 metre length, Stainless Steel

Plastic End Caps

System Type	Fitting Type	Channel Type	Colour
eg. IC	PEC	S	BLK

Intelok Channel, Plastic End Cap, Shallow, Black

System Type		Page
IC	Intelok Channel	172
325	Intelok Brackets (GA)	182
325X	Intelok Brackets (SS)	182

Product Group		Page
CNL	Channel	172
CON	Concrete Insert	192
PEC	Plastic End Caps	198

Channel Type		Page
S	Shallow Channel	174
D	Deep Channel	172
DBB	Deep Back to Back Channel	176
SBB	Shallow Back to Back Channel	177

Slotting Type		Page
P	Plain	172
S	Slotted	173

Length	
SL3:	3m length
SL6:	6m length
SL#:	# = Add length in mm * * - For Concrete Inserts the length must be divisible by 200

Bracket Type	
Various	Use 4 character reference, see section for details

Quickfit Option	
QF	M10 Quickfit
QF12	M12 Quickfit

Colour	
BLK	Black
WHT	White

Finishes and Materials (●)

GA — HOT DIPPED GALVANIZED VANTRUNK MILD STEEL

GM — HOT DIPPED GALVANIZED STRUCTURAL STEEL

QQ — PRE GALVANIZED VANTRUNK STRUCTURAL STEEL

SS — MARINE GRADE STAINLESS STEEL

Details on the full range of standard Finishes and Materials are given in the Finish and Materials section (page 26) and Technical Section (page 246).

Code Sample: Choose finish

HOW TO ORDER

IC	/	CON	/	D	/	SL3	/	GA
System Type		Product Group		Channel Type		Length		Finish

VANTRUNK

INTELOK®

SERRATED CHANNEL

INTELOK SUPPORT CHANNEL

Vantrunk Steel Framing Intelok Channel comes equipped with serrations on its return flanges as standard, and when used with the Vantrunk Steel Framing Channel Nut significantly increases the resistance to slip. The Steel Framing Intelok Channel is tailor made for applications in areas of considerable vibrations such as offshore platforms and power plants.

The Steel Framing System offers two basic forms of Channel, 41 X 41 Deep Channel and 41 X 21 Shallow Channel that are manufactured in 2.5mm material as standard.

Both forms can be manufactured in either plain or slotted configurations dependent on the installation requirements.

The slotted configuration facilitates the overhead support framework for threaded rods, carrying building services i.e. suspended ceilings, lighting, cable tray, cable ladder, trunking, ducting, cable or pipe work. Slotted channel also allows for easier onsite alignment when fixing the framework to a wall or partition, as there is no need to drill through the channel prior to fixing.

The Steel Framing Intelok Channel is available in 3m & 6m lengths as standard. Other lengths of channel are available from 150mm to 6000mm and in increments of 10mm for plain channel and 50mm for slotted channel.

Contact Vantrunk's Sales Team for ordering details.

Vantrunk can also supply multiple channel sections to add superior strength and versatility, utilizing the two basic forms of channel profiles welded in a variety of combinations. The two basic forms are the back to back deep plain and the back to back shallow plain configurations.

Due to the versatility of the Steel Framing Channel and the manufacturing expertise at Vantrunk, a wide range of non-standard channel configurations can be manufactured at the request of the user. Please turn to the end of the Channel Section (page178) for information and ordering details for non-standard channel.

For tunnel applications Vantrunk also has the manufacturing know how to offer a Radial Channel option. Please contact the Vantrunk Sales Team for more information.

HOW TO ORDER

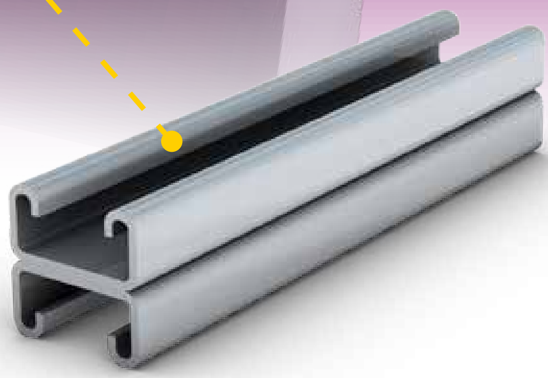
IC	/	CNL	/	D	/	P	/	SL3*	/	GM
System Type		Product Group		Type		Slotting		Channel Length		Finish

*Straight Cable ladder is available in: SL3 (3000mm), SL6 (6000mm) (For non-standard lengths please contact our sales team)

GET A GRIP
WITH THE INTELOK SERRATED CHANNEL

INTELOK FEATURES:

- Vantrunk Steel Framing Intelok Channel comes equipped with serrations on its return flanges as standard, and when used with the Vantrunk Steel Framing Channel Nut significantly increases the resistance to slip.
- The Steel Framing Intelok Channel is tailor made for applications in areas of considerable vibrations such as offshore platforms and power plants.
- Structural Heavy Duty 2.5mm material fully compliant as per BS 6946.



For more information on the Intelok Serrated Channel visit vantrunk.com

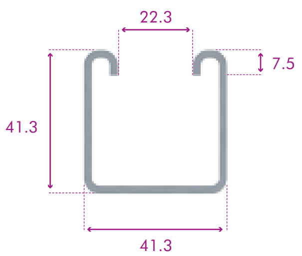
VANTRUNK INTELOK® SERRATED CHANNEL

VANTRUNK INTELOK® SERRATED CHANNEL

Deep Channel Plain

Ref.IC/CNL/D/P

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
  2) the load to give 1/200 deflection
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
- This also applies to Point and UDL loads.



Sectional Properties

CSA (mm²)	I xx (mm⁴)	Z xx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
336.25	71450	3071	2.68	280

Part Number
IC/CNL/S/P/□/○

Finishes & Materials: QQ SS GM

□ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	682.32	2.43	682.32	682.32	272.84	1.94	272.84	272.84	1452
1.0	435.72	3.80	435.72	317.50	217.79	3.02	217.79	197.43	1378
1.2	301.77	5.48	301.77	182.61	181.00	4.34	181.00	135.75	1612
1.4	220.99	7.45	220.99	114.00	154.65	5.89	154.65	98.35	1187
1.6	168.57	9.74	138.02	75.49	134.81	7.67	134.81	73.88	1119
1.8	132.63	12.32	96.14	52.22	119.33	9.66	106.35	56.94	1062
2.0	106.92	15.21	69.36	37.34	106.89	11.87	84.69	44.67	1012
2.2	87.90	18.41	51.44	27.39	96.66	14.29	68.53	35.45	960
2.4	73.43	21.91	39.01	20.48	88.09	16.90	56.10	28.31	920
2.6	62.17	25.71	30.11	15.54	80.80	19.71	46.32	22.63	877
2,8	53.24	29.82	23.57	11.91	74.51	22.70	38.44	18.02	838
3.0	46.03	34.23	18.67	9.18	69.02	25.87	31.98	14.19	810
3.2	40.13	38.95	14.91	—	64.19	29.20	26.60	10.97	779
3.4	35.24	43.97	11.98	—	59.90	32.68	22.05	—	743
3.6	31.15	49.29	9.67	—	56.05	36.30	18.15	—	716
3.8	27.68	54.92	7.82	—	52.57	40.05	14.76	—	693
4.0	24.72	60.86	6.33	—	49.42	43.91	11.79	—	671
4.2	22.17	67.09	—	—	46.55	57.87	—	—	650
4,4	19.96	73.63	—	—	43.91	51.92	—	—	—
4.6	18.04	80.48	—	—	41.47	56.04	—	—	—
4.8	16.35	87.63	—	—	39.22	60.21	—	—	—
5.0	14.86	95.09	—	—	37.13	64.42	—	—	—

HOW TO ORDER

IC / CNL / D / S / SL3* / GM

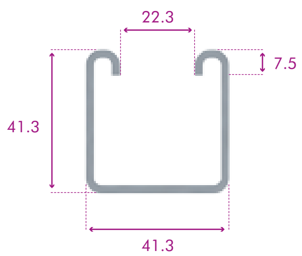
System Type, Product Group, Type, Slotting, Channel Length, Finish

*Straight Cable ladder is available in: SL3 (3000mm), SL6 (6000mm) (For non-standard lengths please contact our sales team)

Deep Channel Slotted

Ref.IC/CNL/D/S

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
  2) the load to give 1/200 deflection
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
- This also applies to Point and UDL loads.



Sectional Properties

CSA (mm²)	I xx (mm⁴)	Z xx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
248.7	60743	2860	2.59	280

Part Number
IC/CNL/S/P/□/○

Finishes & Materials: QQ SS GM

□ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	635.26	2.67	635.26	528.96	254.02	2.12	254.02	254.02	1360
1.0	405.60	4.17	405.60	269.52	202.74	3.31	202.74	167.44	1272
1.2	280.85	6.00	280.85	154.84	168.46	4.75	168.46	114.93	1186
1.4	205.63	8.17	175.88	96.52	143.89	6.45	143.89	83.05	1068
1.6	156.80	10.67	116.94	63.77	125.40	8.39	125.40	62.17	999
1.8	123.33	13.50	81.33	43.99	110.96	10.57	89.69	47.68	941
2.0	99.39	16.67	58.56	31.34	99.36	12.98	71.20	37.17	884
2.2	81.68	20.17	43.33	22.88	89.81	15.62	57.37	29.25	832
2.4	68.20	24.00	32.76	17.01	81.82	18.47	46.73	23.10	786
2.6	57.72	28.17	25.20	12.81	75.01	21.53	38.33	18.20	752
2,8	49.40	32.67	19.64	9.72	69.13	24.78	31.56	14.20	714
3.0	42.68	37.50	15.47	—	64.01	28.22	25.98	10.86	681
3.2	37.19	42.66	12.27	—	59.49	31.83	21.33	—	974
3.4	32.64	48.16	9.79	—	55.47	35.60	17.38	—	—
3.6	28.82	54.00	7.82	—	51.86	39.51	13.98	—	—
3.8	25.59	60.16	6.25	—	48.61	43.55	11.02	—	—
4.0	22.84	66.66	4.98	—	45.66	47.71	8.42	—	—
4.2	20.47	73.50	—	—	42.96	51.97	—	—	—
4.4	18.41	80.66	—	—	40.49	56.31	—	—	—
4.6	16.61	88.16	—	—	38.20	60.71	—	—	—
4.8	15.04	96.00	—	—	36.08	65.16	—	—	—
5.0	13.65	104.16	—	—	34.12	69.63	—	—	—

Shallow Channel Plain

Ref.IC/CNL/S/P

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
  2) the load to give 1/200 deflection
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
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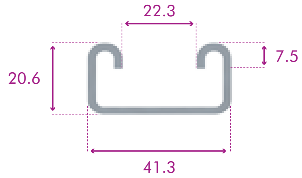

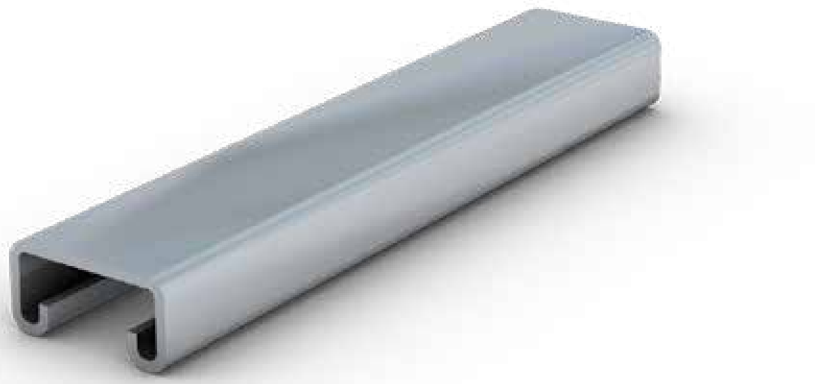

Sectional Properties

CSA (mm²)	I xx (mm⁴)	Z xx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
23.4	11743	956	1.84	280

Part Number
IC/CNL/S/P/☐/○

Finishes & Materials: QQ SS GM

☐ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	210.56	4.61	182.32	100.10	84.20	3.64	84.20	49.24	762
1.0	133.79	7.20	92.04	49.94	66.88	5.65	56.52	30.21	691
1.2	92.09	10.37	52.13	27.77	55.24	8.06	37.90	19.62	625
1.4	66.95	14.12	31.84	16.50	46.85	10.86	26.45	13.03	545
1.6	50.63	18.44	20.44	10.17	40.49	14.01	18.84	8.56	495
1.8	39.44	23.34	13.56	—	35.49	17.48	13.45	—	—
2.0	31.44	28.82	9.16	—	31.43	21.24	9.44	—	—
2.2	25.52	34.87	—	—	28.06	25.23	—	—	—
2.4	21.01	41.50	—	—	25.21	29.43	—	—	—
2.6	17.51	48.70	—	—	22.75	33.78	—	—	—
2,8	14.73	56.48	—	—	20.61	38.21	—	—	—
3.0	12.48	64.84	—	—	18.72	42.69	—	—	—

HOW TO ORDER

IC	CNL	S	S	SL3*	GM
System Type	Product Group	Type	Slotting	Channel Length	Finish

*Straight Cable ladder is available in: SL3 (3000mm), SL6 (6000mm) (For non-standard lengths please contact our sales team)

Shallow Channel Slotted

Ref.IC/CNL/S/S

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
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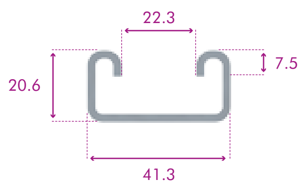
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
- This also applies to Point and UDL loads.



Sectional Properties

CSA (mm²)	I xx (mm⁴)	Z xx (mm⁴)	Weight (kg/m)	Yield (N/mm²)
201.5	9669	880	1.72	280

Part Number
IC/CNL/S/S/□/○

Finishes & Materials:

□ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	210.56	4.61	182.32	100.10	84.20	3.64	84.20	49.24	702
1.0	133.79	7.20	92.04	49.94	66.88	5.65	56.52	30.21	629
1.2	92.09	10.37	52.13	27.77	55.24	8.06	37.90	19.62	544
1.4	66.95	14.12	31.84	16.50	46.85	10.86	26.45	13.03	489
1.6	50.63	18.44	20.44	10.17	40.49	14.01	18.84	8.56	442
1.8	39.44	23.34	13.56	—	35.49	17.48	13.45	—	—
2.0	31.44	28.82	9.16	—	31.43	21.24	9.44	—	—
2.2	25.52	34.87	—	—	28.06	25.23	—	—	—
2.4	21.01	41.50	—	—	25.21	29.43	—	—	—
2.6	17.51	48.70	—	—	22.75	33.78	—	—	—
2,8	14.73	56.48	—	—	20.61	38.21	—	—	—
3.0	12.48	64.84	—	—	18.72	42.69	—	—	—

Deep Back to Back Channel

Ref.IC/CNL/BBD/P

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
  2) the load to give 1/200 deflection
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
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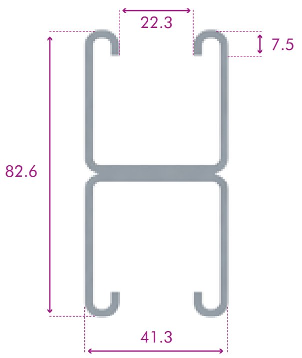
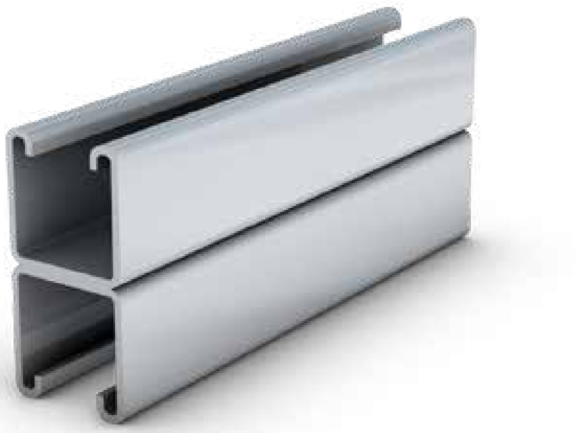




Sectional Properties

CSA (mm^2)	I xx (mm^4)	Z xx (mm^4)	Weight (kg/m)	Yield (N/mm^2)
672.5	375152.9	9083.6	5.35	280

Part Number
IC/CNL/BBD/P/☐/○

Finishes & Materials:

QO SS GM

☐ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	2023.46	1.37	2023.46	2023.46	809.14	1.10	809.14	809.14	2893
1.0	1294.05	2.14	1294.05	1294.05	646.83	1.71	646.83	646.83	2861
1.2	897.83	3.09	897.83	970.19	538.53	2.46	538.53	538.53	2824
1.4	658.92	4.20	658.92	609.97	461.10	3.35	461.10	461.10	2781
1.6	503.86	5.49	503.86	407.75	402.96	4.36	402.96	402.96	2622
1.8	397.55	6.94	397.55	285.58	357.68	5.51	357.68	319.47	2564
2.0	321.50	8.57	321.50	207.46	321.40	6.80	321.40	257.31	2498
2.2	265.24	10.37	265.24	155.20	291.67	8.21	291.67	211.19	2426
2.4	222.45	12.34	216.22	118.93	266.85	9.75	266.85	175.98	2349
2.6	189.14	14.48	169.49	92.97	245.81	11.42	245.81	148.46	2270
2.8	162.72	16.80	135.17	73.90	227.74	13.22	227.74	126.51	2188
3.0	141.40	19.28	109.39	59.58	212.04	15.14	202.10	108.70	2108
3.2	123.95	21.94	89.67	48.62	198.26	17.18	176.12	94.03	2029
3.4	109.49	24.77	74.31	40.09	186.08	19.34	154.49	81.78	1951
3.6	97.38	27.77	62.18	33.35	175.22	21.61	136.28	71.42	1877
3.8	87.12	30.94	52.47	27.96	165.48	24.01	120.79	62.58	1803
4.0	78.37	34.28	44.60	23.59	156.68	26.51	107.48	54.95	1734
4.2	70.83	37.80	38.16	—	148.70	29.13	95.96	48.31	1667
4.4	64.30	41.48	32.84	—	141.41	31.85	85.90	42.48	1602
4.6	58.60	45.34	28.41	—	134.74	34.67	77.05	37.33	1541
4.8	53.60	49.37	24.68	—	128.60	37.60	69.22	32.74	1482
5.0	49.19	53.57	21.53	—	122.93	40.63	62.25	28.63	1425

HOW TO ORDER

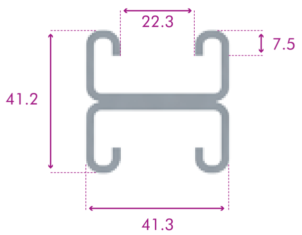
IC	/ CNL	/ BBS	/ S	/ SL3*	/ GM
System Type	Product Group	Type	Slotting	Channel Length	Finish

*Straight Cable ladder is available in: SL3 (3000mm), SL6 (6000mm) (For non-standard lengths please contact our sales team)

Shallow Back to Back Channel

Ref.IC/CNL/BBS/P

- Steel with a Minimum yield strength 280 N/mm.
- Beams are assumed to be simply supported.
- Load and deflection are calculated using a safety factor of 1.6 and an allowable stress of 175 N/mm.
- Results given are for Pre-galvanized steel, Hot dipped galvanized will reduce the stress due to the heat treatment and reduce the loading in the chart by a factor of approx 18%.
- Beam loads are calculated from the column face and effective length in BS5950.
- The tables show:
  1) The max safe working load,
  2) the load to give 1/200 deflection
  3) load to give 1/360 deflection - the deflection used will depend on the installation designer.
- This also applies to Point and UDL loads.



Sectional Properties

CSA (mm^2)	I xx (mm^4)	Z xx (mm^4)	Weight (kg/m)	Yield (N/mm^2)
468	58679.6	2848.48	3.57	280

Finishes & Materials:

Part Number
IC/CNL/BBS/P/☐/○

☐ = Select a Channel Length* ○= Select a finish

Safe Working Load Table

Span (metres)	Safe Working Load - Uniform (kg/m)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Maximum Load- Point Load (kg)		Def Limit Span/ 200 (kg)	Def Limit Span/ 360 (kg)	Safe Working Load - Column at Face (kg)
	Load kg/m)	Def (mm)			Load (kg)	Def (mm)			
0.8	631.89	2.75	631.89	510.25	252.68	2.19	252.68	252.68	1698
1.0	403.44	4.30	403.44	259.94	201.66	3.41	201.66	161.46	1633
1.2	279.35	6.19	270.88	149.30	167.56	4.90	167.56	110.77	1559
1.4	204.53	8.42	169.59	93.03	143.12	6.65	143.12	79.99	1422
1.6	155.96	11.00	112.73	61.44	124.73	8.65	111.12	59.83	1345
1.8	122.67	13.92	78.38	42.35	110.37	10.89	86.36	45.84	1269
2.0	98.85	17.18	56.41	30.15	98.82	13.38	68.50	35.67	1197
2.2	81.23	20.79	41.71	21.98	89.32	16.10	55.15	28.02	1127
2.4	67.83	24.74	31.52	16.32	81.37	19.04	44.86	22.06	1062
2.6	57.40	29.04	24.22	12.26	74.59	22.19	36.74	17.31	1002
2,8	49.12	33.68	18.85	—	68.75	25.54	30.18	13.43	945
3.0	42.44	38.66	14.83	—	63.65	29.08	24.79	10.20	892
3.2	36.98	43.99	—	—	59.15	32.80	20.28	—	841
3.4	32.45	49.66	—	—	55.15	36.68	16.45	—	—
3.6	28.66	55.67	—	—	51.56	40.71	13.15	—	—
3.8	25.44	62.03	—	—	48.33	44.88	10.28	—	—
4.0	22.70	68.73	—	—	45.39	49.16	—	—	—
4.2	20.34	75.78	—	—	42.71	53.55	—	—	—
4,4	18.30	83.16	—	—	40.24	58.01	—	—	—
4.6	16.51	90.90	—	—	37.97	62.54	—	—	—
4.8	14.95	98.97	—	—	35.86	67.11	—	—	—
5.0	13.56	107.39	—	—	33.90	71.71	—	—	—

CHANNEL VERSATILITY

Due to the versatility of the Vantrunk Steel Framing Channel, a wide range of non-standard channel configurations can be offered. Contact Vantrunk's Sales Team for ordering information.

Back to Back Deep and Shallow
(IC/CNL/BBSD)

Back to Side Deep Channel
(IC/CNL/BWD)

Side to Side Deep Channel
(IC/CNL/WWD)

Back to Side Deep Shallow Channel
(IC/CNL/BWSD)

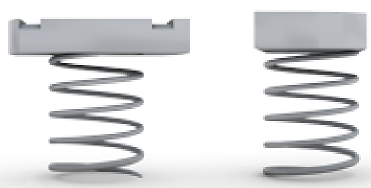
Opposite Side to Side Deep Channel
(IC/CNL/WWID)

Radial Return Flange Inwards Deep Channel
(IC/CNL/RI)

Radial Return Flange Outwards Deep Channel
(IC/CNL/RO)

VANTRUNK CHANNEL NUT

The Intelok Channel has serrated return flanges which provide greatly enhanced slip resistance, essential in areas of vibration and where close inspection of completed installations is not possible.



The Vantrunk Intelok Channel Nut can be supplied in plain, short and long spring configurations to suit the client's application.

The Vantrunk Intelok Nut is stocked in a number of thread sizes including M6, M8, M10 and M12.

The Vantrunk Intelok Channel Nut can be supplied in three main materia & finishes which are Zinc Plated, Galvanized and Stainless Steel.

Long Spring Channel Nut

CHANNEL NUTS - LONG SPRING			
Thread Size	Part No. ZA	Part No. GA	Part No. SS
M6	IC/NUT/M6/L/ZA	IC/NUT/M6/L/GA	IC/NUT/M6/L/SS
M8	IC/NUT/M8/L/ZA	IC/NUT/M8/L/GA	IC/NUT/M8/L/SS
M10	IC/NUT/M10/L/ZA	IC/NUT/M10/L/GA	IC/NUT/M10/L/SS
M12	IC/NUT/M12/L/ZA	IC/NUT/M12/L/GA	IC/NUT/M12/L/SS

Short Spring Channel Nut

CHANNEL NUTS - SHORT SPRING			
Thread Size	Part No. ZA	Part No. GA	Part No. SS
M6	IC/NUT/M6/S/ZA	IC/NUT/M6/S/GA	IC/NUT/M6/S/SS
M8	IC/NUT/M8/S/ZA	IC/NUT/M8/S/GA	IC/NUT/M8/S/SS
M10	IC/NUT/M10/S/ZA	IC/NUT/M10/S/GA	IC/NUT/M10/S/SS
M12	IC/NUT/M12/S/ZA	IC/NUT/M12/S/GA	IC/NUT/M12/S/SS

Plain Channel Nut

CHANNEL NUTS - NO SPRING			
Thread Size	Part No. ZA	Part No. GA	Part No. SS
M6	IC/NUT/M6/N/ZA	IC/NUT/M6/N/GA	IC/NUT/M6/N/SS
M8	IC/NUT/M8/N/ZA	IC/NUT/M8/N/GA	IC/NUT/M8/N/SS
M10	IC/NUT/M10/N/ZA	IC/NUT/M10/N/GA	IC/NUT/M10/N/SS
M12	IC/NUT/M12/N/ZA	IC/NUT/M12/N/GA	IC/NUT/M12/N/SS

VANTRUNK INTELOK® SERRATED CHANNEL

INTELOK BRAKETRY & BEAM CLAMPS

Brackets are primarily designed to be used to provide mechanical strength and reinforcement to a joint when used to connect channel together. The Vantrunk Steel Framing System comes equipped with one of the industry's most comprehensive and versatile range of brackets. The Steel Framing Brackets allow for infinite varieties of permanent and temporary supporting frameworks to be created.

Every Bracket in the Vantrunk Steel Framing Range comes complete with a 15.2mm fixing hole to accommodate fixings up to and including M12.

The Steel Framing Range of Brackets are manufactured in either Hot Dip Galvanized Mild Steel or Stainless Steel316 Marine Grade. Vantrunk Steel Framing Brackets manufactured in Carbon Steel have a material gauge of 6mm and brackets manufactured in Stainless Steel have a material gauge of 5mm.

All Steel Framing Brackets are manufactured out of steel with minimum yield strength of 170N/mm^2 in accordance with BS 6946.

The seven groups of brackets (see page 182) are all provided within the Steel Framing Brackets Range, which will accommodate all of our user's installation requirements. For more information on the Vantrunk Bracket Range please contact the Vantrunk Technical Team.

Please note that the diagrams are just one application of the bracket, some brackets may be used in several applications.

ACCREDITED TO THE
FOLLOWING STANDARDS

CE

ENHANCED OPTION

VANTRUNK INTELOK QF® CHANNEL BRACKETRY

VANTRUNK RIS

Vantrunk's unique Intelok Quickfit System of brackets and cantilevers are factory assembled with channel nuts, setscrews, washers & special plastic sleeves. The sleeves ensure that the correct spacing is maintained between the bracket and the channel nut enabling it to be easily located and quickly assembled and also ensures that the channel nut is held captive in transit whilst allowing rotation of the fixing assembly during installation.

To install the Intelok Quickfit system of brackets & cantilevers the nuts are aligned with the open slot of the channel. The assembly is placed in position, the setscrew turned by hand through 90° to locate the channel nut under the return flange of the channel and the setscrew tightened. The channel nuts ensure positive location within the channel. The entire assembly operation takes approximately one third of the time required to fix similar brackets and cantilevers by the conventional spring nut method.

Why Quickfit your Brackets?

- Easier and quicker to assemble.
- Less components to order.
- Approximate 65% savings on installation time.
- Simplified stock control.
- Easier estimating.

Conventional bracket

- Number of individual components = 10
- Number of order items = 4
- Assembly time = 135 secs

QF Quickfit Bracket

- Number of individual components = 1
- Number of order items = 1
- Assembly time = 45 secs... **66.6% saving**

It couldn't be easier to order a Quickfit Bracket with our NEW Simplified Ordering System

1. All brackets with the QF symbol can be supplied as Quickfit.
2. Select the bracket part number required.
3. Add the suffix (-QF) for standard M10 Quickfit Brackets.
4. or add (-QF12) for M12 fixings
5. For example 325XAS10SS becomes 325XAS10SS-QF

VANTRUNK INTELOK® SERRATED CHANNEL

QUICK GUIDE...

FLAT PLATE BRACKETS

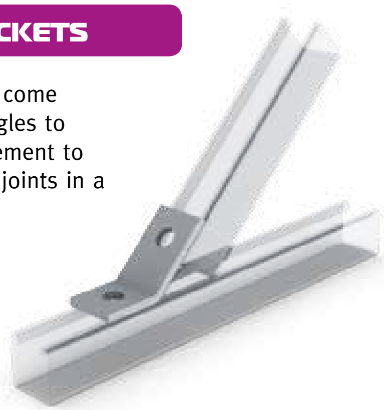
Flat Plate Brackets provide joint reinforcement between Steel Framing Channel on the same or on different planes.

90° ANGLE BRACKETS

90° Angled brackets allow for right angle joints within a channel framework.

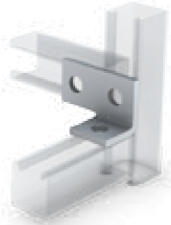
ANGLE BRACKETS

Angled brackets come in a range of angles to provide reinforcement to angular channel joints in a framework.



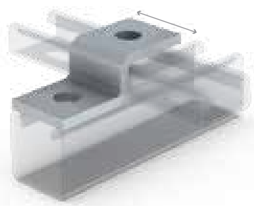
SUPPORT BRACKETS

Designed to offer support and mechanical strength to channels on many different planes.



SHAPED & TOP HAT BRACKETS

A captive fixing bracket used to secure channel side by side on the same plane or channel on a horizontal plane to channel on a vertical plane.

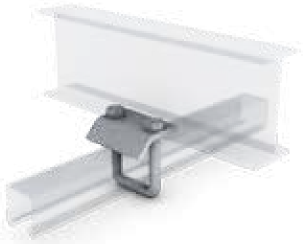


BASE PLATES

Base Plates are to be used for securing channel to the floor or wall and will help to distribute the concentrated load over a larger area.

BEAM CLAMPS

Beam Clamps are designed to secure Steel Framing Intelok Channel to secondary steelwork or building structures.



HOW TO ORDER

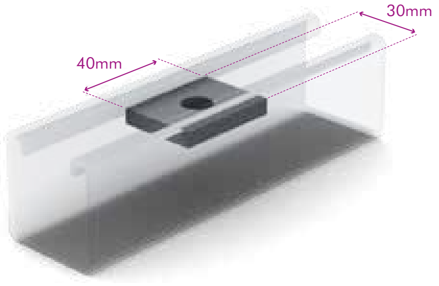
32SAE10	/ GA	- QF
System & Bracket Type	Finish	QF option

*Quickfit Optional on some products, just add - QF to the appropriate finish code

FLAT PLATE BRACKETS

Internal Washer

Part No.	
Part No. GA	325AJ02
Part No. SS	325XAJ02

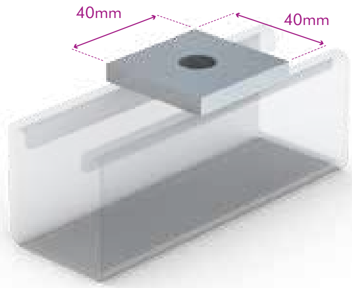


Square Washer

Part No. GA	Part No. SS	Hole Clearance
325AJ03	325XAJ03	M6
325AJ05	325XAJ05	M8
325AJ07	325XAJ07	M10
325AJ10	325XAJ10	M12

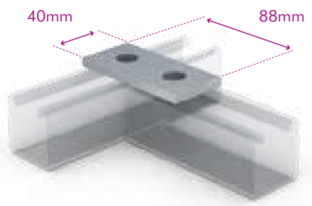
325XAJ10 also available QF

Available in: M6, M8, M10 & M12 Amend Code as Applicable.



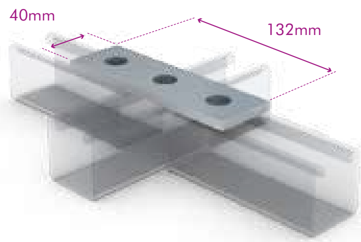
2 Hole Straight Bar QF

Part No.	
Part No. GA	325AD11
Part No. SS	325XAD11



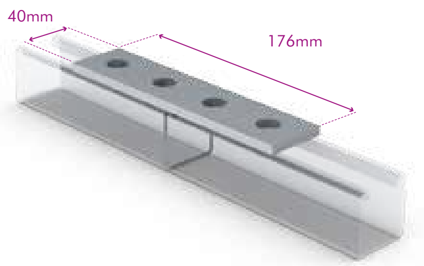
3 Hole Straight Bar QF

Part No.	
Part No. GA	325AC11
Part No. SS	325XAC11



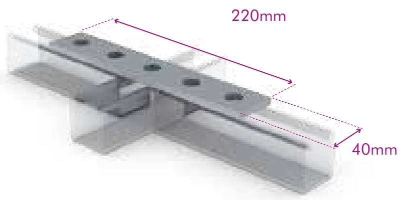
4 Hole Straight Bar QF

Part No.	
Part No. GA	325AC13
Part No. SS	325XAC13



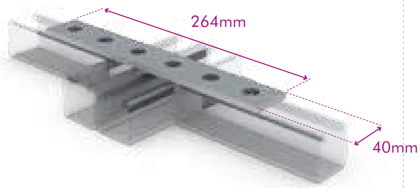
5 Hole Straight Bar QF

Part No.	
Part No. GA	325AY10
Part No. SS	325XAY10



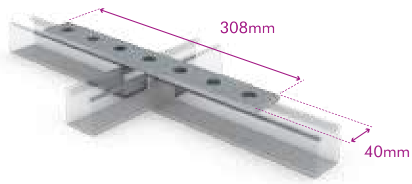
6 Hole Straight Bar QF

Part No.	
Part No. GA	325AY11
Part No. SS	325XAY11



7 Hole Straight Bar QF

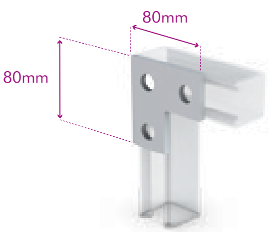
Part No.	
Part No. GA	325AY12
Part No. SS	325XAY12



VANTRUNK INTELOK® SERRATED CHANNEL

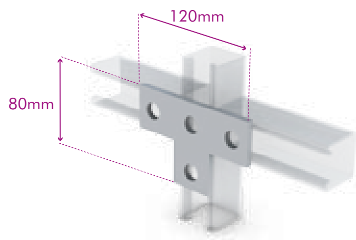
'L' Shaped Bracket QF

Part No. GA	325AG10
Part No. SS	325XAG10



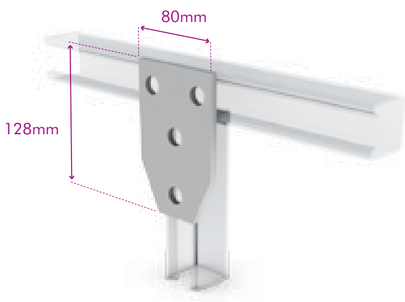
'T' Shaped Bracket QF

Part No. GA	325AF13
Part No. SS	325XAF13



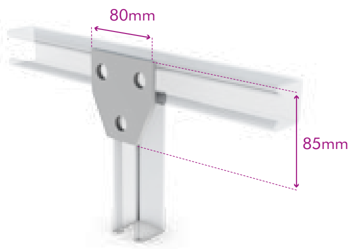
Fish Plate Joiner QF

Part No. GA	325AF15
Part No. SS	325XAF15



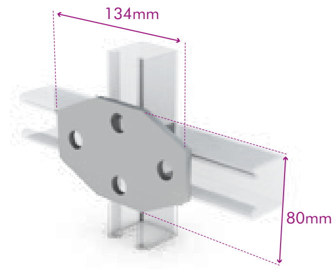
3 Hole Flat Plate QF

Part No. GA	325AF26
Part No. SS	325XAF26



4 Hole Flat Plate QF

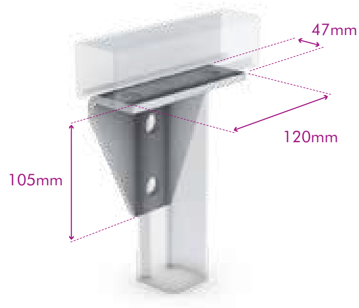
Part No. GA	325AF27
Part No. SS	325XAF27



90° ANGLE BRACKETS

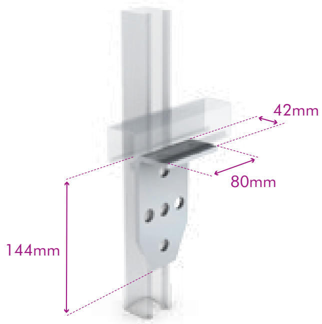
Wing 90° Angle Plate QF

Part No. GA	325AQ10
Part No. SS	325XAQ10



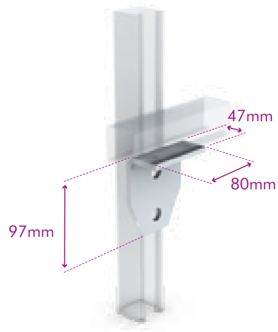
Large 90° Angle Plate QF

Part No. GA	325AQ11
Part No. SS	325XAQ11



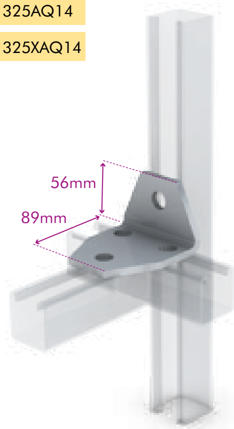
Medium 90° Angle Plate QF

Part No. GA	325AQ12
Part No. SS	325XAQ12



Small 90° Angle Plate QF

Part No. GA	325AQ14
Part No. SS	325XAQ14

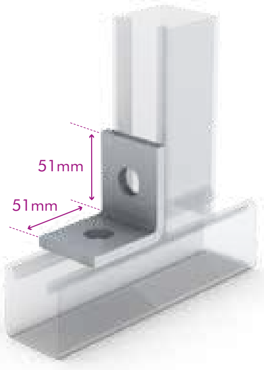


HOW TO ORDER 325AG10/SS*
System & Bracket Type — Finish

*Quickfit Optional on some products, just add - QF to the appropriate finish code

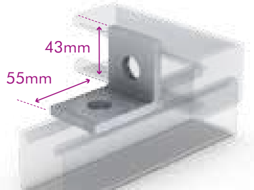
Linear Right Angle Bar 1x1

Part No. GA 325AS10
Part No. SS 325XAS10



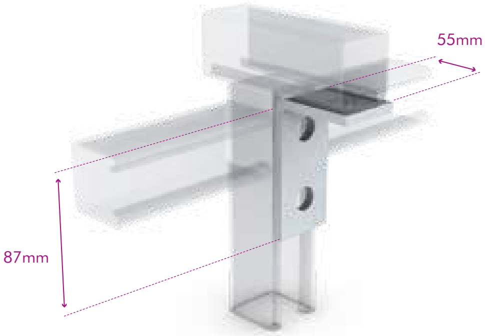
Perpendicular Right Angle Bar 1x1

Part No. GA 325AD10
Part No. SS 325XAD10



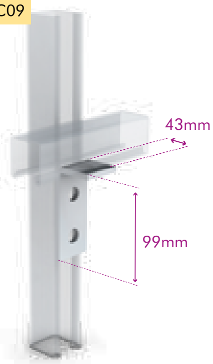
Linear Right Angle Bar 2x1

Part No. GA 325AC10
Part No. SS 325XAC10



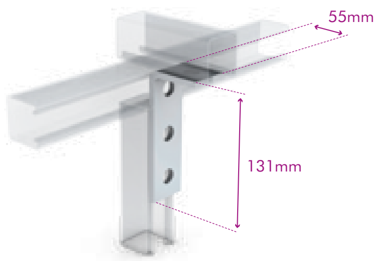
Perpendicular Right Angle Bar 2x1

Part No. GA 325AC09
Part No. SS 325XAC09



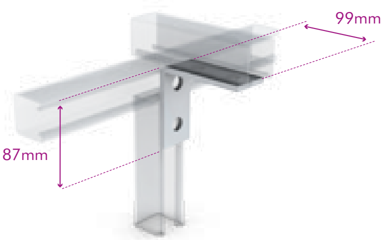
Linear Right Angle Bar 3x1

Part No. GA 325AE10
Part No. SS 325XAE10



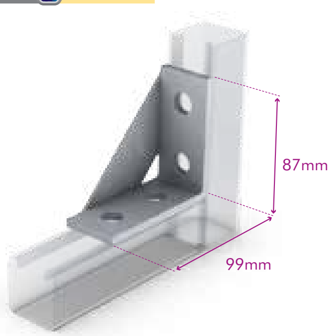
Linear Right Angle Bar 2x2

Part No. GA 325AE11
Part No. SS 325XAE11



Right Angle Shelf Bracket

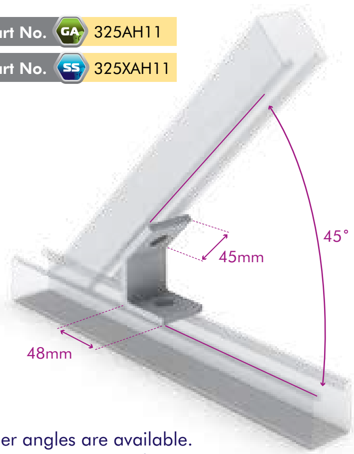
Part No. GA 325AE12
Part No. SS 325XAE12



ANGLE BRACKETS

Acute Angle Bracket

Part No. GA 325AH11
Part No. SS 325XAH11



Other angles are available.
Please contact our Sales Team

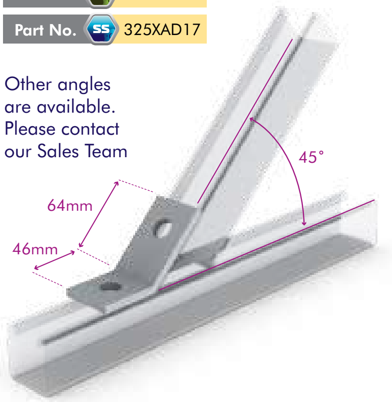
VANTRUNK INTELOK® SERRATED CHANNEL

ANGLE BRACKETS CONTINUED

Obtuse Angle Bracket QF

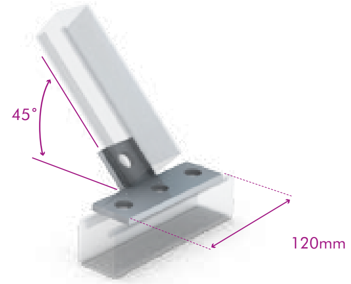
Part No. GA 325AD17
Part No. SS 325XAD17

Other angles are available. Please contact our Sales Team



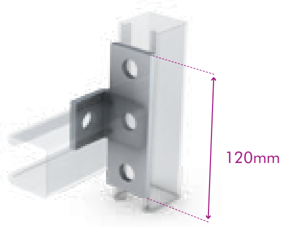
45º Angle Tee Bracket QF

Part No. GA 325AF14
Part No. SS 325XAF14



90º Angle Tee Bracket QF

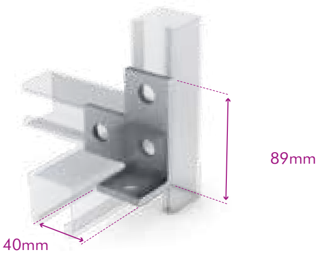
Part No. GA 325AF10
Part No. SS 325XAF10



SUPPORT BRACKETS

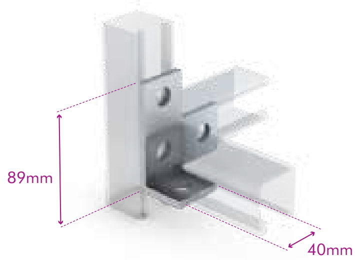
Left Handed Tee Support QF

Part No. GA 325AF11
Part No. SS 325XAF11



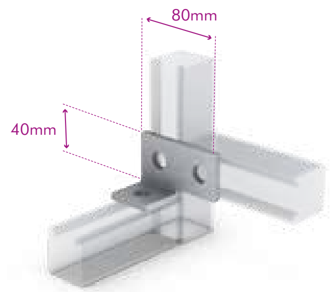
Right Handed Tee Support QF

Part No. GA 325AF12
Part No. SS 325XAF12



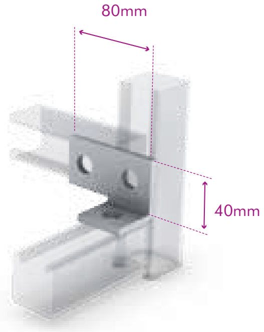
Left Hand One Bend L Support QF

Part No. GA 325AG12
Part No. SS 325XAG12



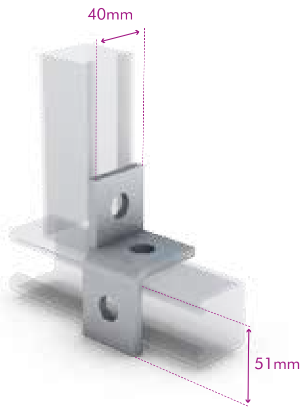
Right Hand One Bend L Support QF

Part No. GA 325AG13
Part No. SS 325XAG13



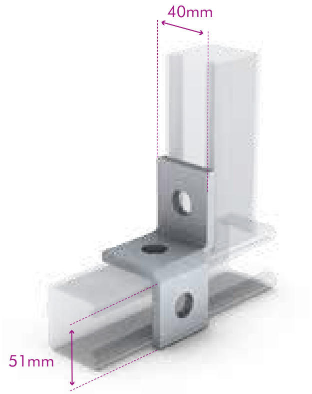
Left Hand Two Bend L Support QF

Part No. GA 325AG15
Part No. SS 325XAG15



Right Hand Two Bend L Support QF

Part No. GA 325AG16
Part No. SS 325XAG16

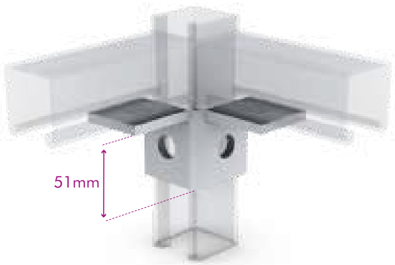


HOW TO ORDER
325AD17/GA*
System & Bracket Type   Finish

*Quickfit Optional on some products, just add - QF to the appropriate finish code

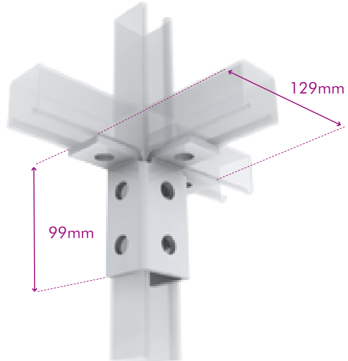
Three Way Corner

Part No. GA 325AV02
Part No. SS 325XAV02



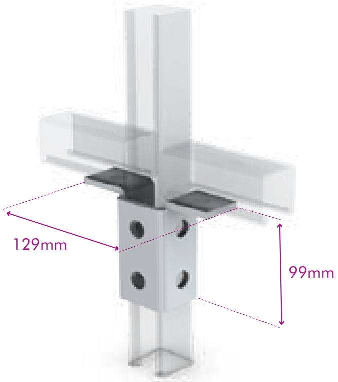
Three Leg Support

Part No. GA 325AV09
Part No. SS 325XAV09



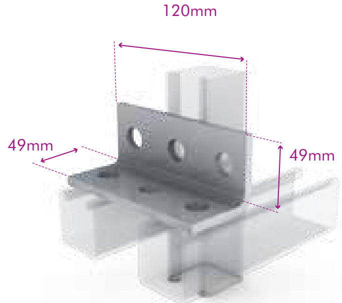
Two Leg Support

Part No. GA 325AV10
Part No. SS 325XAV10



Cross Support

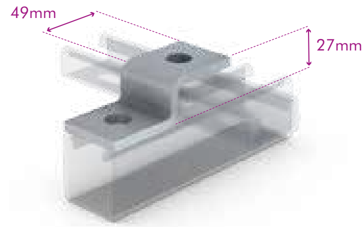
Part No. GA 325AB10
Part No. SS 325XAB10



SHAPED BRACKETS

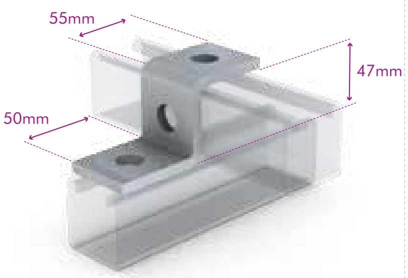
Shallow 'Z' Shaped Bar

Part No. GA 325AD28
Part No. SS 325XAD28



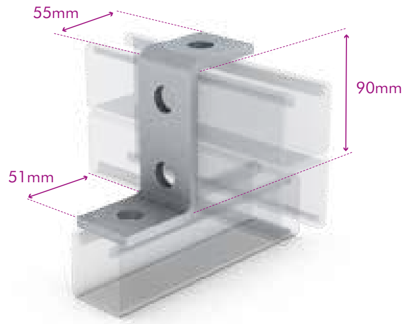
Deep 'Z' Shaped Bracket

Part No. GA 325AC12
Part No. SS 325XAC12



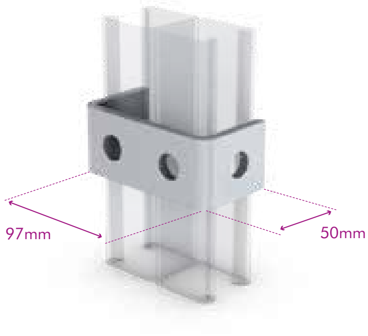
Deep Back to Back Shaped Bar

Part No. GA 325AU10
Part No. SS 325XAU10



Back to Back Bracket

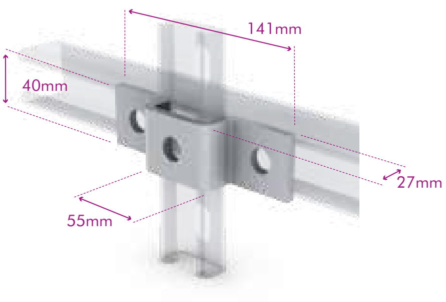
Part No. GA 325AT11
Part No. SS 325XAT11



VANTRUNK INTELOK® SERRATED CHANNEL

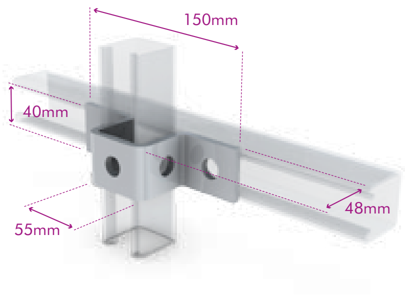
Shallow Normal QF Top Hat Bracket

Part No. GA 325AJ13
Part No. SS 325XAJ13



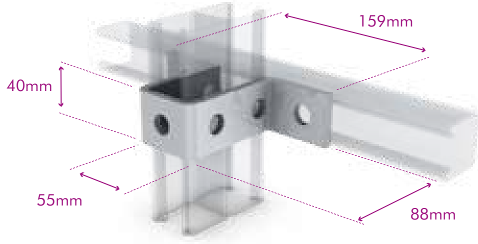
Deep Normal QF Top Hat Bracket

Part No. GA 325AJ12
Part No. SS 325XAJ12



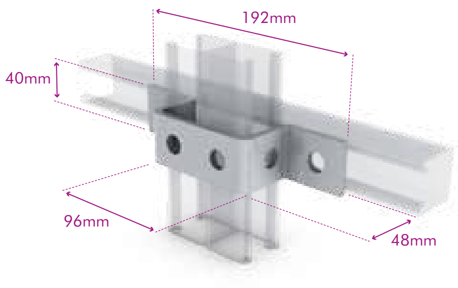
Back to Back Normal QF Top Hat Bracket

Part No. GA 325AFJ14
Part No. SS 325XAJ14



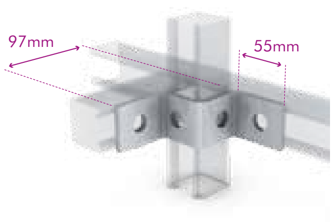
Back to Back Flat QF Top Hat Bracket

Part No. GA 325AJ11
Part No. SS 325XAJ11



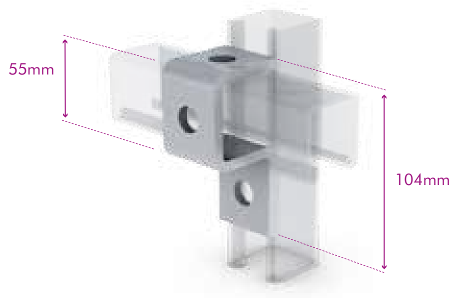
'W' Shaped Bracket QF

Part No. GA 325AU15
Part No. SS 325XAU15



'U' Shaped Bracket QF

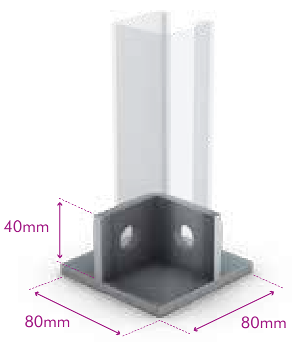
Part No. GA 325AJ15
Part No. SS 325XAJ15



SUPPORT BRACKETS

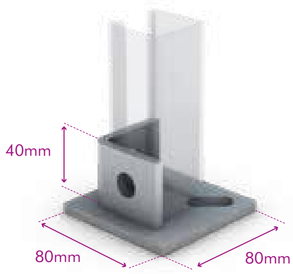
Deep Offset QF Base Plate

Part No. GA 325AR10
Part No. SS 325XAR10



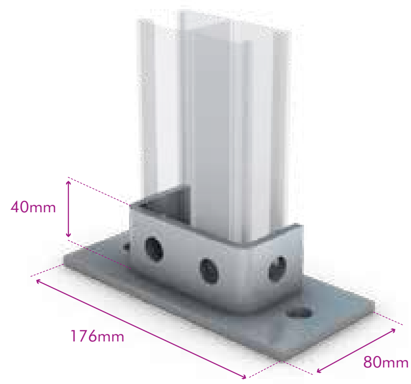
Deep Central QF Base Plate

Part No. GA 325AN10
Part No. SS 325XAN10



Back to Back QF Central Base Plate

Part No. GA 325AT10
Part No. SS 325XAT10

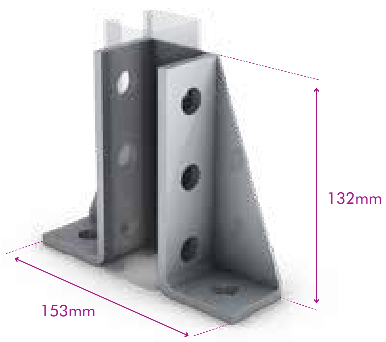


HOW TO ORDER **325AJ13/GA - QF 10**
System & Bracket Type — Finish

*Quickfit Optional on some products, just add - QF to the appropriate finish code

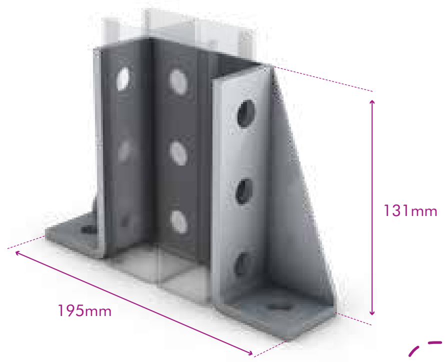
Deep Tall Gusset Wing Fitting

Part No.	GA	325AW01
Part No.	SS	325XAW01



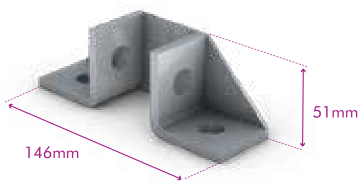
Back to Back Tall Gusset Wing Fitting

Part No.	GA	325AW02
Part No.	SS	325XAW02



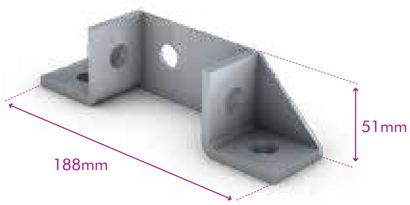
Deep Short Gusset Wing Fitting

Part No.	GA	325AW03
Part No.	SS	325XAW03



Back to Back Short Gusset Wing Fitting

Part No.	GA	325AW04
Part No.	SS	325XAW04



BEAM CLAMPS

Purlin Beam Clamp

Part No.	GA	389AH10
Part No.	SS	389XAH10

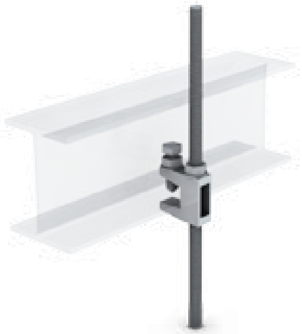
SEE PAGE 232 FOR MORE DETAILS

VANTRUNK INTELOK® SERRATED CHANNEL

BEAM CLAMPS CONTINUED

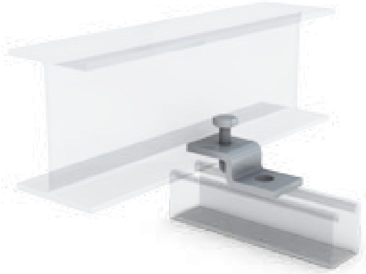
Beam Clamp

Part No. GA	Part No. SS	Thread Size	GA Max. Load
389AA07	389XAA07	M10	114kg
389AA08	389XAA08	M12	341kg



'Z' Shaped Beam Clamp QF

Part No. GA	Part No. SS	GA Max. Load as pair
325AP10	325XAP10	300kg



Flange range up to 17mm
Supplied with M10x40 Cone Point Screw

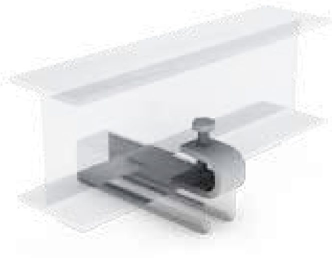
'J' Shaped Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
325AP11	325XAP11	300kg

Flange range up to 21mm

'C' Shaped Flange Beam Clamp

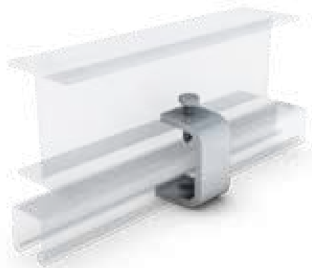
Part No. GA	Part No. SS	GA Max. Load as pair
325AX11	325XAX11	250kg



Flange range up to 18mm
Supplied with M12x40 Cone Point Screw

'C' Shaped Base QF Beam Clamp

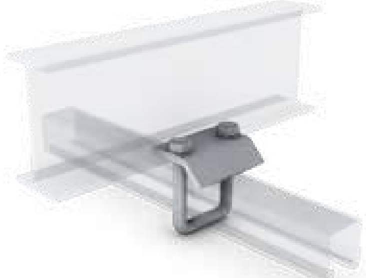
Part No. GA	Part No. SS	GA Max. Load as pair
325AX10	325XAX10	300kg



Flange range up to 17mm
Supplied with M10x40 Cone Point Screw

Medium Duty 'U' Bolt Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
325AM10	325XAM10	1100kg



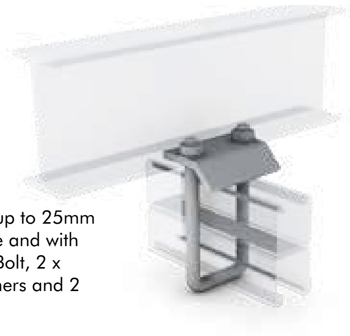
Suitable for both Deep and Shallow Channel Flange range up to 25mm Supplied single and with M10x80 'U' Bolt, 2 x M10 Flat Washers and 2 M10 Hex Nuts

HOW TO ORDER 389AA10* System, Bracket Type & Finish

*Quickfit Optional on some products, just add - QF to the appropriate finish code

Medium Duty Back to Back 'U' Bolt Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
Ref.325AM12	Ref.325XAM12	1100kg



Flange range up to 25mm Supplied single and with M10x128 'U' Bolt, 2 x M10 Flat Washers and 2 M10 Hex Nuts

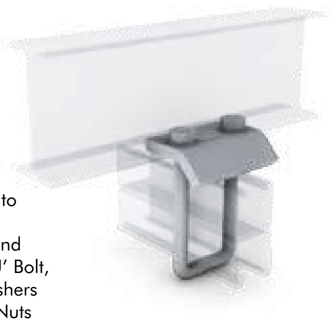
Heavy Duty Back to Back 'U' Bolt Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
325AM13	325XAM13	1800kg

Flange range up to 25mm Supplied single and with M12x126 'U' Bolt, 2 x M12 Flat Washers and 2 M12 Hex Nuts

Extra Heavy Duty Back to Back 'U' Bolt Beam Clamp

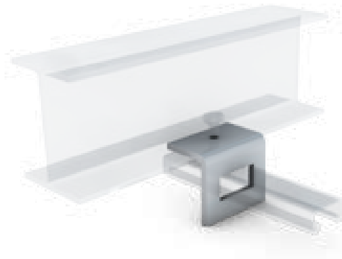
Part No. GA	Part No. SS	GA Max. Load as pair
Ref.325AM14	Ref.325XAM14	1800kg



Flange range up to 25mm - 40mm Supplied single and with M12x146 'U' Bolt, 2 x M12 Flat Washers and 2 M12 Hex Nuts

Shallow Window Beam Clamp

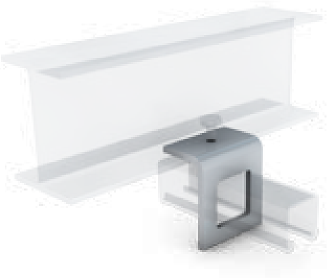
Part No. GA	Part No. SS	GA Max. Load as pair
325AL11	325X AL11	500kg



Flange range up to 15mm
Supplied with M10x40 Cone Point Screw

Deep Window Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
325AL10	325X AL10	500kg



Flange range up to 15mm
Supplied with M10x40 Cone Point Screw

Deep Back to Back Window Beam Clamp

Part No. GA	Part No. SS	GA Max. Load as pair
325AL09	325X AL09	500kg

Flange range up to 15mm
Supplied with M10x40 Cone Point Screw

VANTRUNK INTELOK® SERRATED CHANNEL

INTELOK CONCRETE INSERTS

Steel Framing Concrete Inserts are manufactured from Steel Framing Intelok Channel profiles. The back of each channel is pressed out to form specially designed strong anchor lugs.

The channel is then filled with a unique profile manufactured from expanded polystyrene foam which prevents the ingress of concrete during the pouring stage of construction. The infill is simply removed by inserting a knife blade down the two continuous slots formed in the profile enabling rapid removal of the infill.

ACCREDITED TO THE FOLLOWING STANDARDS

CE

HOW TO ORDER

IC	/ CON	/ D	/ SL3*	/ GM
System Type	Product Group	Type	Channel Length	Finish

*Standard Lengths of Channel: SL3 (3000mm), SL6 (6000mm)

Deep Intelok Concrete Insert

Ref.IC/CON/D

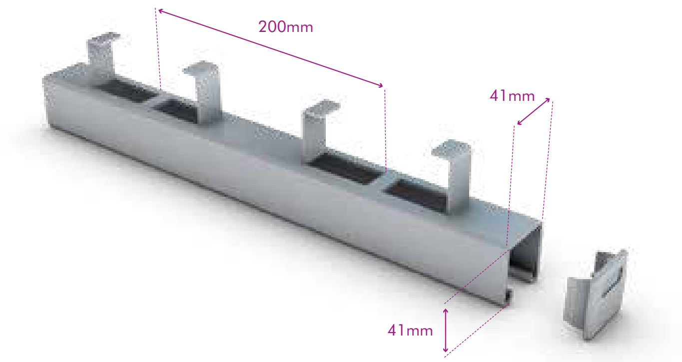
Steel Framing Deep Concrete Inserts are manufactured from 2.5mm, 41 x 41 deep channel with securing lugs at 200mm centres.

Loading Data – Concrete Inserts

Loading Condition	Deep Channel
Safe Working Load per 200mm module	670kg
Safe Working Load per metre length	3350kg
Safe pull-out load on channel lips	1000kg
Safe shear load - M10 fixings	1392kg
Safe shear load - M12 fixings	2023kg

Loading data is based on concrete with a crushing strength of 33N/mm2 and a factor safety of 2.

Steel Framing Deep Concrete Inserts are available in standard lengths of 3m and 6m. For lengths other than the standard 3 & 6 metres, quote the required length in mm (must be divisible by 200).



Part Number
IC/CON/D/☐/◯

Finishes & Materials: GM SS

☐ = **Select a Channel Length*** ◯= **Select a finish**

Intelok Shallow Concrete Insert

Ref.IC/CON/S

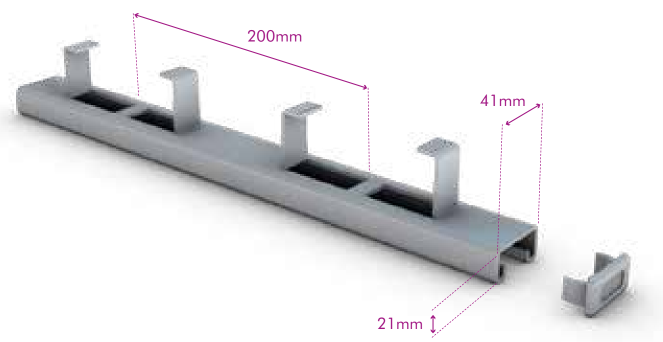
Steel Framing Deep Concrete Inserts are manufactured from 2.5mm, 41 x 41 deep channel with securing lugs at 200mm centres.

Loading Data – Concrete Inserts

Loading Condition	Deep Channel
Safe Working Load per 200mm module	400kg
Safe Working Load per metre length	2000kg
Safe pull-out load on channel lips	S1000kg
Safe shear load - M10 fixings	1392kg
Safe shear load - M12 fixings	2023kg

Loading data is based on concrete with a crushing strength of 33N/mm2 and a factor safety of 2.

Steel Framing Deep Concrete Inserts are available in standard lengths of 3m and 6m. For lengths other than the standard 3 & 6 metres, quote the required length in mm (must be divisible by 200).



Part Number
IC/CON/S/☐/◯

Finishes & Materials: GM SS

☐ = **Select a Channel Length*** ◯= **Select a finish**

The Concrete Insert above is shown with Plastic End Caps. Vantrunk highly recommends the use of Plastic End Caps as the cap prevents the ingress of concrete slurry into the insert during installation. (Order Separately for End Caps Page 198).

VANTRUNK INTELOK® SERRATED CHANNEL

INTELOK STEEL FRAMING CONCRETE INSERT INSTALLATION INSTRUCTIONS:

Step 1: Fixing to Shuttering:

Fix the Concrete Insert to the shuttering by nailing through the slots created by the anchor lugs. Fit end caps as necessary to the open ends of the concrete insert. The anchor lugs can be wired onto reinforcement mesh as required to increase the strength of the finished assembly.

Step 2: Removing the Infill

After pouring of concrete & removal of the shuttering, remove the polystyrene infill using a knife to cut through the two continuous groves in the infill. Remove the nails.

Step 3: Inserting the Quickfit Assembly

Vantrunk Quickfit Brackets/Cantilevers are simply inserted into the channel. When the hexagon set screw is rotated through 90° degrees the channel nuts turn into the correct position, it is then easily tightened by a spanner.

This saves approximately two thirds of the time taken when using the conventional method of spring channel nuts etc.

The Quickfit assembly can be adjusted along the channel to the desired position before tightening the fixing bolt.

The Vantrunk Intelok Concrete Inserts are also compatible with the conventional style of spring channel nuts.

Finished installation

VANTRUNK

INTELOK®

SERRATED CHANNEL

INTELOK ACCESSORIES

The Vantrunk Steel Framing System is complemented by a range of accessories.

From a selection of pipe clamps and connectors to end caps and cover strips, the following ancillary items represent cost-effective and practical solutions to most requirements.

ACCREDITED TO THE FOLLOWING STANDARD

CE

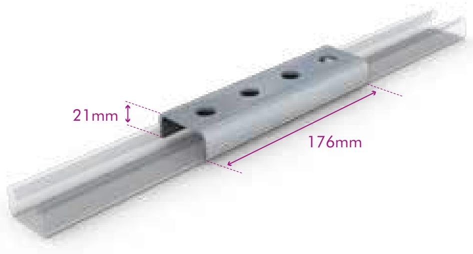
HOW TO ORDER

325AK11

System, Bracket Type & Finish

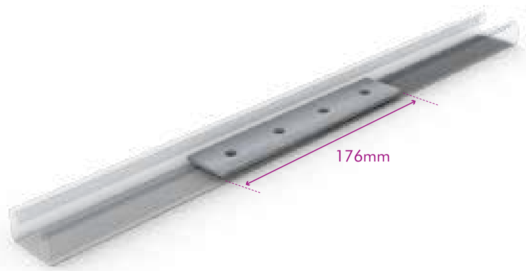
Shallow External Connector

Part No. GA	325AK11
Part No. SS	325XAK11



Shallow Internal Connector

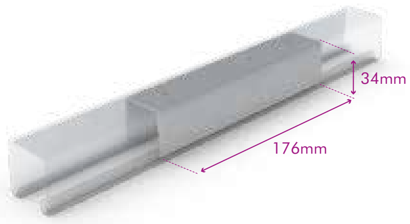
Part No. GA	325AK13
Part No. SS	325XAK13



Comes complete with necessary fixings

Deep Internal Connector

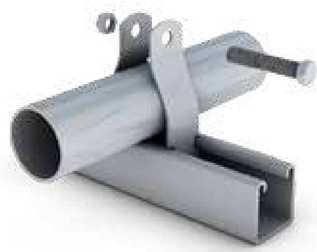
Part No. GA	325AB08
Part No. SS	325XAB08



Comes complete with necessary fixings

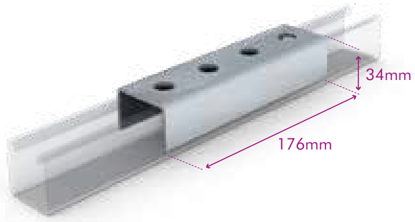
Pipe Clamps

A Range of Pipe Clamps are available in a zinc plated finish, please contact the Vantrunk Sales Team for More Information. Please note that a minimum order quantity applies for this range of products.



Deep External Connector

Part No. GA	325AK10
Part No. SS	325XAK10

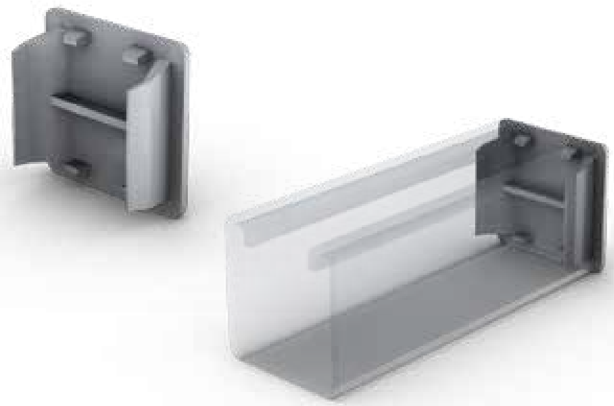


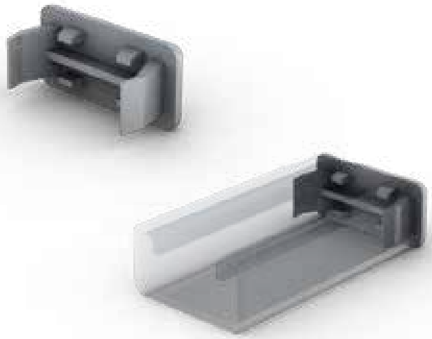
VANTRUNK INTELOK® SERRATED CHANNEL

Protective End Cap

Ref. IC/PEC

Protective End Caps are designed to close off the open ends of Intelok Deep and Shallow Channel Profiles. End caps are also used with Intelok Concrete Inserts to prevent the ingress of concrete slurry during the pouring process. Manufactured from injection moulded PVC, end caps are available in black or white colours.





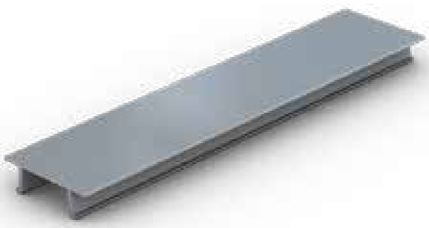
Part Number
IC/PEC/△/○

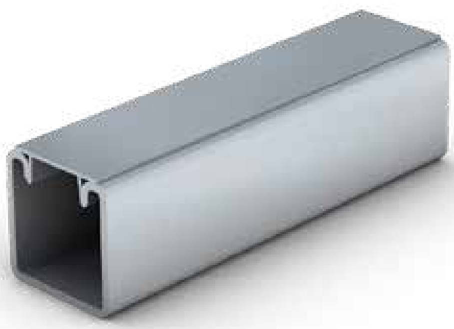
△= Select Channel Type ○= Select a finish

Cover Strip

Ref. IC/COV/SL3

Cover Strips are designed to close off the continuous open slots of Intelok Channel Profiles, particularly for decorative purposes or where the channel is used as trunking for the routing of secondary cables. Cover strips are supplied in 3m lengths and are available in extruded white PVC and roll-formed pre-galvanized mild steel or stainless steel material.





Part Number
IC/COV/SL3/○

○= Select a finish

HOW TO ORDER

IC	/	COV	/	SL3	/	PVC
System Type		Fitting Type		Cover Length		Finish

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VANTRUNK

INTELOK TECHNICAL DATA

This compilation of technical information is intended to supply essential details relating to the Intelok Serrated Channel System. This will ensure that any installation has suitable strength & rigidity to provide reliable support at minimum installed cost.

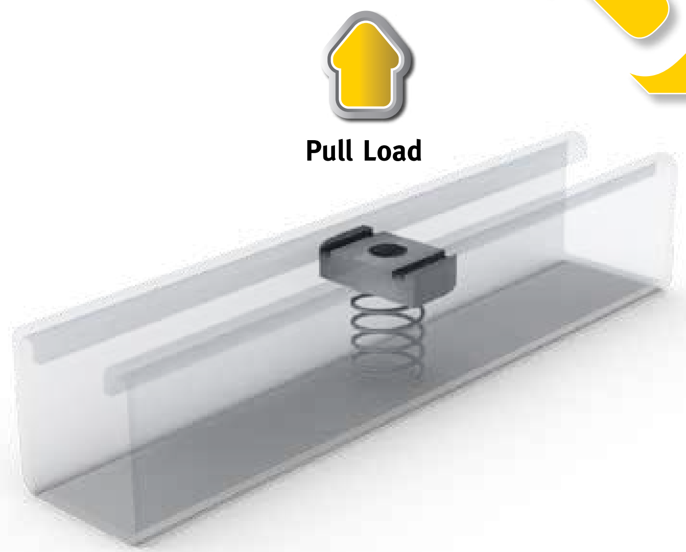
Our Design Team is available to answer any questions relating to particular site requirements which may not be answered in the following sections.

Contents

2.1 Loads

› 1.1. PULL TEST

In Order to measure the safe working pull out load (SWL) for channel, a series of tests were conducted according to BS 6946:1988. The following are the set of results that were derived from the tests.



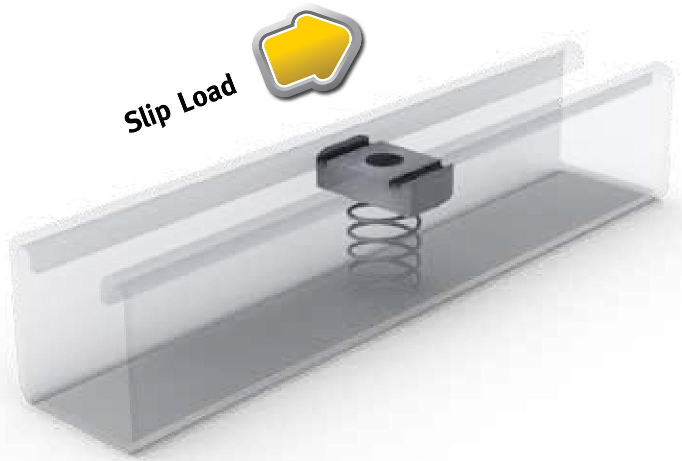
Safe Working Pull Loads

Material	M10	M12
Hot Dip Galvanised	728	768
Pre-Galvanised	839	733
Stainless Steel	1052	1375

* The Results in the above table have had a safety factor of 3 applied to the ultimate failure load
* The Results are in Kilogram (Kg)

› 1.2. SLIP TEST

In order to measure the safe working slip load (SWL) for channel, a series of tests were conducted according to BS 6946:1988. The following are the set of results that were derived from the tests.



Safe Working Slip Load

Material	Nut Size	Torque	1mm Slip	Failure	Average SWL
Hot Dip Galvanised	M10	46Nm	662.6kg	733.9kg	286.5kg
Pre-Galvanised	M10	46Nm	632kg	978.6kg	425.9kg
Stainless Steel	M10	31Nm	336.4kg	540.3kg	188kg

* The Results in the above table have had a safety factor of 3 applied to the ultimate failure load
* The Results are in Kilogram (Kg)

VANTRUNK INTELOK® SERRATED CHANNEL

› 2.0 BRACKET WEIGHTS & QUICK-FIT FIXINGS QUANTITIES

GA

Part Number	Weight (g)	Quickfit				Former QF Reference
		Part Number	No of QF Fixings	M10 Weight (g)	Bracket Description	
325AJ02/GA	52	N/A		-	Internal washer	N/A
325AJ03/GA	75	N/A		-	Square washer M6	N/A
325AJ05/GA	73	N/A		-	Square washer M8	N/A
325AJ07/GA	72	N/A		-	Square washer M10	N/A
325AJ10/GA	69	325AJ10/GA-QF	1	132	Square washer M12	325QJ60
325AD11/GA	153	325AD11/GA-QF	2	279	Two hole plate	325QD61
325AC11/GA	229	325AC11/GA-QF	3	418	Three hole plate	325QC61
325AC13/GA	306	325AC13/GA-QF	4	558	Four hole plate	325QC63
325AY10/GA	382	325AY10/GA-QF	5	697	Five hole flat plate	325QY60
325AY11/GA	459	325AY11/GA-QF	6	837	Six hole flat plate	325QY61
325AY12/GA	535	325AY12/GA-QF	7	976	Seven hole flat plate	325QY62
325AG10/GA	207	325AG10/GA-QF	3	396	L bracket	325QG60
325AF13/GA	276	325AF13/GA-QF	3	465	T bracket	325QF63
325AF15/GA	418	325AF15/GA-QF	4	670	Fishplate/joiner four hole	325QF65
325AF26/GA	261	325AF26/GA-QF	3	450	Three hole angle plate	325QF76
325AF27/GA	207	325AF27/GA-QF	4	459	Four hole cross plate	325QF77
325AQ10/GA	610	325AQ10/GA-QF	4	862	Right angle bracket	325QQ60
325AQ11/GA	594	325AQ11/GA-QF	5	909	Right angle bracket	325QQ61
325AQ14/GA	401	325AQ14/GA-QF	4	653	Right angle bracket	325AQ14
325AQ12/GA	418	325AQ12/GA-QF	4	670	Right angle bracket	325QQ62
325AS10/GA	162	325AS10/GA-QF	2	288	Right angle bracket 1+1	325QS60
325AC09/GA	229	325AC09/GA-QF	3	418	Right angle bracket 2+1	325QC59
325AC10/GA	229	325AC10/GA-QF	3	418	Right angle bracket 2+1	325QC60
325AD10/GA	153	325AD10/GA-QF	2	279	Right angle bracket 1+1	325QD60
325AE10/GA	306	325AE10/GA-QF	4	558	Right angle brackets 3+1	325QE60
325AE11/GA	306	325AE11/GA-QF	4	558	Right angle bracket 2+2	325QE61
325AE12/GA	394	325AE12/GA-QF	4	646	Right angle shelf bracket 2+2	325QE62
325AH11/GA	219	325AH11/GA-QF	2	345	Acute angle bracket 45°	325QH61
325AD17/GA	188	325AD17/GA-QF	2	314	Obtuse angle bracket 45°	325QD67
325AF14/GA	276	325AF14/GA-QF	3	465	45° angle bracket	325QF64
325AF10/GA	276	325AF10/GA-QF	4	528	Channel support bracket	325QF60
325AF11/GA	276	325AF11/GA-QF	4	528	Channel support bracket (LH)	325QF61
325AF12/GA	276	325AF12/GA-QF	4	528	Channel support bracket (RH)	325QF62
325AG12/GA	207	325AG12/GA-QF	3	396	Channel support bracket (LH)	325QG62
325AG13/GA	207	325AG13/GA-QF	3	396	Channel support bracket (RH)	325QG63
325AG15/GA	231	325AG15/GA-QF	2	357	Channel support bracket (LH)	325QG65
325AG16/GA	231	325AG16/GA-QF	2	357	Channel support bracket (RH)	325QG66
325AV02/GA	324	325AV02/GA-QF	3	513	Corner bracket – 3 way	325QV52
325AV09/GA	688	325AV09/GA-QF	5	1003	Wing fitting – 3 leg	325QV59
325AV10/GA	595	325AV10/GA-QF	4	847	Wing fitting – 2 leg	325QV60
325AB10/GA	458	325AB10/GA-QF	3	647	Cross support bracket	325QB60
325AD28/GA	188	325AD28/GA-QF	2	314	Z shaped shallow bracket	325QD78
325AC12/GA	229	325AC12/GA-QF	2	355	Z shaped deep bracket	325QC62
325AU10/GA	306	325AU10/GA-QF	2	432	Z shaped B to B bracket	325QU60
325AT11/GA	306	325AT11/GA-QF	2	432	Back to back bracket	325QT61
325AJ13/GA	293	325AJ13/GA-QF	3	482	U shaped shallow bracket	325QJ63
325AJ12/GA	382	325AJ12/GA-QF	3	571	U shaped deep bracket	325QJ62
325AJ14/GA	535	325AJ14/GA-QF	3	724	Back to back channel bracket	325QJ64
325AJ11/GA	459	325AJ11/GA-QF	4	711	Double channel bracket	325QJ61
325AU15/GA	306	325AU15/GA-QF	3	495	W shaped deep bracket	325QU15
325AJ15/GA	306	325AJ15/GA-QF	2	432	U shaped deep bracket	325QJ65
325AR10/GA	454	325AR10/GA-QF	1	517	Base plate	325QR60
325AN10/GA	454	325AN10/GA-QF	1	517	Base plate	325QN60
325AT10/GA	984	325AT10/GA-QF	2	1110	Double base plate	325QT60
325AW01/GA	878	325AW01/GA-QF	2	1004	Wing fitting	325QW51
325AW02/GA	971	325AW02/GA-QF	4	1223	B to B Wing fitting	325QW52
325AW03/GA	428	325AW03/GA-QF	1	491	B to B Short wing fitting	325QW53
325AW04/GA	466	325AW04/GA-QF	2	592	Short wing fitting	325QW54
325AP10/GA	199	325AP10/GA-QF	1	262	Beam bracket	325QP60
325AP11/GA	169	N/A		-	Beam clamp	N/A
325AX11/GA	185	N/A		-	Beam clamp	N/A
325AX10/GA	528	325AX10/GA-QF	1	591	Beam clamp	325QX60
325AM10/GA	338	N/A		-	Beam clamp deep/shallow	N/A
325AM12/GA	386	N/A		-	Beam clamp (B TO B chnl)	N/A
325AM13/GA	691	N/A		-	Beam clamp H.Duty (B to B)	N/A
325AM14/GA	898	N/A		-	Beam clamp H.Duty (B to B)	N/A
325AL11/GA	390	N/A		-	Beam clamp shallow (window)	N/A
325AL10/GA	418	N/A		-	Beam clamp deep (window)	N/A
325AL09/GA	418	N/A		-	Beam clamp B to B (window)	N/A
325AK10/GA	435	325AK10/GA-QF	4	687	Deep external connector	325QK60
325AK11/GA	327	325AK11/GA-QF	4	579	Shallow external connector	325QK61
325AK13/GA	285	N/A		-	Shallow internal connector	N/A

TECHNICAL DATA

Part Number	Weight (g)	Quickfit				Former QF Reference
		Part Number	No of QF Fixings	M10 Weight (g)	Bracket Description	
325XAJ02/SS	44	N/A		-	Internal washer	N/A
325XAJ03/SS	64	N/A		-	Square washer M6	N/A
325XAJ05/SS	62	N/A		-	Square washer M8	N/A
325XAJ07/SS	62	N/A		-	Square washer M10	N/A
325XAJ10/SS	59	325XAJ10/SS-QF	1	124	Square washer M12	325XQJ60
325XAD11/SS	131	325XAD11/SS-QF	2	261	Two hole plate	325XQD61
325XAC11/SS	196	325XAC11/SS-QF	3	391	Three hole plate	325XQC61
325XAC13/SS	262	325XAC13/SS-QF	4	522	Four hole plate	325XQC63
325XAY10/SS	326	325XAY10/SS-QF	5	651	Five hole flat plate	325XQY60
325XAY11/SS	392	325XAY11/SS-QF	6	782	Six hole flat plate	325XQY61
325XAY12/SS	457	325XAY12/SS-QF	7	912	Seven hole flat plate	325XQY62
325XAG10/SS	177	325XAG10/SS-QF	3	372	L bracket	325XQG60
325XAF13/SS	236	325XAF13/SS-QF	3	431	T bracket	325XQF63
325XAF15/SS	357	325XAF15/SS-QF	4	617	Fishplate/joiner four hole	325XQF65
325XAF26/SS	223	325XAF26/SS-QF	3	418	Three hole angle plate	325XQF76
325XAF27/SS	177	325XAF27/SS-QF	4	437	Four hole cross plate	325XQF77
325XAQ10/SS	521	325XAQ10/SS-QF	4	781	Right angle bracket	325XQQ60
325XAQ11/SS	508	325XAQ11/SS-QF	5	833	Right angle bracket	325XQQ61
325XAQ14/SS	343	325XAQ14/SS-QF	4	603	Right angle bracket	325XAQ14
325XAQ12/SS	357	325XAQ12/SS-QF	4	617	Right angle bracket	325XQQ62
325XAS10/SS	138	325XAS10/SS-QF	2	268	Right angle bracket 1+1	325XQS60
325XAC09/SS	196	325XAC09/SS-QF	3	391	Right angle bracket 2+1	325XQC59
325XAC10/SS	196	325XAC10/SS-QF	3	391	Right angle bracket 2+1	325XQC60
325XAD10/SS	131	325XAD10/SS-QF	2	261	Right angle bracket 1+1	325XQD60
325XAE10/SS	262	325XAE10/SS-QF	4	522	Right angle brackets 3+1	325XQE60
325XAE11/SS	262	325XAE11/SS-QF	4	522	Right angle bracket 2+2	325XQE61
325XAE12/SS	337	325XAE12/SS-QF	4	597	Right angle shelf bracket 2+2	325XQE62
325XAH11/SS	187	325XAH11/SS-QF	2	317	Acute angle bracket 45°	325XQH61
325XAD17/SS	161	325XAD17/SS-QF	2	291	Obtuse angle bracket 45°	325XQD67
325XAF14/SS	236	325XAF14/SS-QF	3	431	45° angle bracket	325XQF64
325XAF10/SS	236	325XAF10/SS-QF	4	496	Channel support bracket	325XQF60
325XAF11/SS	236	325XAF11/SS-QF	4	496	Channel support bracket (LH)	325XQF61
325XAF12/SS	236	325XAF12/SS-QF	4	496	Channel support bracket (RH)	325XQF62
325XAG12/SS	177	325XAG12/SS-QF	3	372	Channel support bracket (LH)	325XQG62
325XAG13/SS	177	325XAG13/SS-QF	3	372	Channel support bracket (RH)	325XQG63
325XAG15/SS	197	325XAG15/SS-QF	2	327	Channel support bracket (LH)	325XQG65
325XAG16/SS	197	325XAG16/SS-QF	2	327	Channel support bracket (RH)	325XQG66
325XAV02/SS	277	325XAV02/SS-QF	3	472	Corner bracket – 3 way	325XQV52
325XAV09/SS	588	325XAV09/SS-QF	5	913	Wing fitting – 3 leg	325XQV59
325XAV10/SS	509	325XAV10/SS-QF	4	769	Wing fitting – 2 leg	325XQV60
325XAB10/SS	391	325XAB10/SS-QF	3	586	Cross support bracket	325XQB60
325XAD28/SS	161	325XAD28/SS-QF	2	291	Z shaped shallow bracket	325XQD78
325XAC12/SS	196	325XAC12/SS-QF	2	326	Z shaped deep bracket	325XQC62
325XAU10/SS	262	325XAU10/SS-QF	2	392	Z shaped B to B bracket	325XQU60
325XAT11/SS	262	325XAT11/SS-QF	2	392	Back to back bracket	325XQT61
325XAJ13/SS	250	325XAJ13/SS-QF	3	445	U shaped shallow bracket	325XQJ63
325XAJ12/SS	326	325XAJ12/SS-QF	3	521	U shaped deep bracket	325XQJ62
325XAJ14/SS	457	325XAJ14/SS-QF	3	652	Back to back channel bracket	325XQJ64
325XAJ11/SS	392	325XAJ11/SS-QF	4	652	Double channel bracket	325XQJ61
325XAU15/SS	262	325XAU15/SS-QF	3	457	W shaped deep bracket	325XQU15
325XAJ15/SS	262	325XAJ15/SS-QF	2	392	U shaped deep bracket	325XQJ65
325XAR10/SS	388	325XAR10/SS-QF	1	453	Base plate	325XQR60
325XAN10/SS	388	325XAN10/SS-QF	1	453	Base plate	325XQN60
325XAT10/SS	841	325XAT10/SS-QF	2	971	Double base plate	325XQT60
325XAW01/SS	750	325XAW01/SS-QF	2	880	Wing fitting	325XQW51
325XAW02/SS	830	325XAW02/SS-QF	4	1090	B to B Wing fitting	325XQW52
325XAW03/SS	366	325XAW03/SS-QF	1	431	B to B Short wing fitting	325XQW53
325XAW04/SS	398	325XAW04/SS-QF	2	528	Short wing fitting	325XQW54
325XAP10/SS	170	325XAP10/SS-QF	1	235	Beam bracket	325XQP60
325XAP11/SS	144	N/A		-	Beam clamp	N/A
325XAX11/SS	158	N/A		-	Beam clamp	N/A
325XAX10/SS	451	325XAX10/SS-QF	1	516	Beam clamp	325XQX60
325XAM10/SS	289	N/A		-	Beam clamp deep/shallow	N/A
325XAM12/SS	330	N/A		-	Beam clamp (B TO B chnl)	N/A
325XAM13/SS	591	N/A		-	Beam clamp H.Duty (B to B)	N/A
325XAM14/SS	768	N/A		-	Beam clamp H.Duty (B to B)	N/A
325XAL11/SS	333	N/A		-	Beam clamp shallow (window)	N/A
325XAL10/SS	357	N/A		-	Beam clamp deep (window)	N/A
325XAL09/SS	357	N/A		-	Beam clamp B to B (window)	N/A
325XAK10/SS	372	325XAK10/SS-QF	4	632	Deep external connector	325XQK60
325XAK11/SS	279	325XAK11/SS-QF	4	539	Shallow external connector	325XQK61
325XAK13/SS	244	N/A		-	Shallow internal connector	N/A

› 3.0 CLASSIFICATION TO BS 6946:1988

The Metal Channels, Brackets and other components in this catalogue, are cover by this standard and are used to make load bearing frameworks.

For more details on the classification of the Vantrunk Steel Framing System, components and accessories to BS 6946:1988 please refer to the Vantrunk Technical Team

› 4.0 REFERENCE STANDARDS

The following list of standards relating to Vantrunk's Cable Management products and associated support systems covered in this catalogue.

BS 729	Replaced by BS EN ISO 1461
BS 1449	Part 1 Replaced by BS EN 10111, 10130 & 10025
BS 1449	Part 2 Replaced by BS EN 10088-2
BS EN ISO 1461:2009	Hot Dip Galvanized coatings on fabricated on and steel articles. Specifications and test methods (formerly BS 729)
BS 2989	Replaced by BS EN 10147
BS 6946:1988	Specification for metal channel support systems for electrical installations
BS EN 10025:1993	Replaced by BS EN 10025-2:2004
BS EN 10025-2:2004	Hot Rolled Products of structural steels. Technical delivery conditions for non alloy structural steels (formerly BS 10025:1993)

BS 10088-2:2005	Stainless Steel. Technical Delivery conditions for sheet/plate and strip for general purposes (formerly BS 1449 Part 2)
BS EN 10111:2008	Continuously hot rolled low carbon steel sheet & strip for cold forming. Technical delivery conditions
BS EN 10130:2006	Cold Rolled low carbon flat products for cold forming. Technical Conditions
BS EN 10147:2004	Replaced by BS EN 10136:2004
BS EN 14713:2009	Protection against corrosion of iron and steel in structures – Zinc and aluminium coatings – Guidelines
BS EN 10327:2009	Continuously hot-dip coated strip & sheet of low carbon steels for cold forming. Technical Delivery Conditions

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