



# ***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.

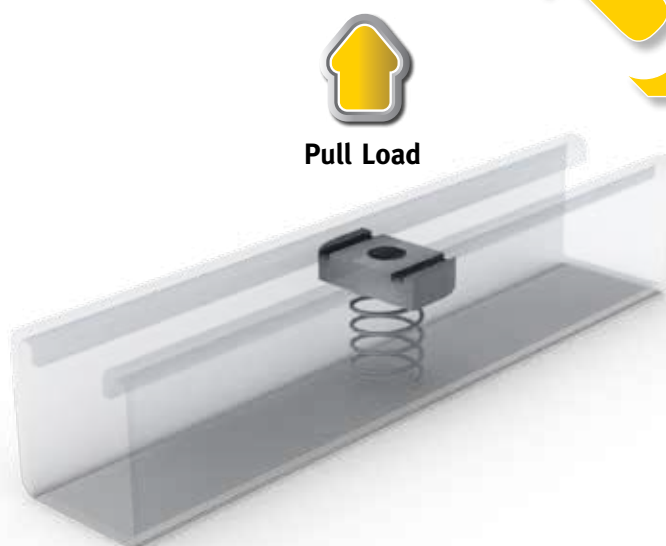
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2.1 Loads

## > 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.



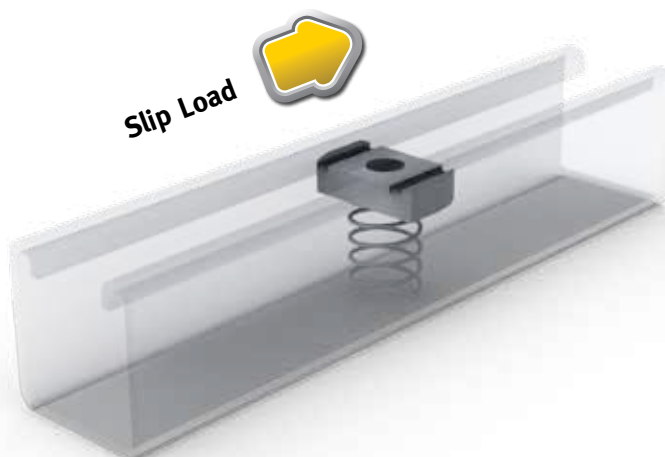
### Safe Working Pull Loads

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)

## 2.0 BRACKET WEIGHTS & QUICK-FIT FIXINGS QUANTITIES



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



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.

<b>BS 729</b>	Replaced by BS EN ISO 1461	<b>BS 10088-2:2005</b>	Stainless Steel. Technical Delivery conditions for sheet/plate and strip for general purposes (formerly BS 1449 Part 2)
<b>BS 1449</b>	Part 1 Replaced by BS EN 10111, 10130 & 10025	<b>BS EN 10111:2008</b>	Continuously hot rolled low carbon steel sheet & strip for cold forming. Technical delivery conditions
<b>BS 1449</b>	Part 2 Replaced by BS EN 10088-2	<b>BS EN 10130:2006</b>	Cold Rolled low carbon flat products for cold forming. Technical Conditions
<b>BS EN ISO 1461:2009</b>	Hot Dip Galvanized coatings on fabricated on and steel articles. Specifications and test methods (formerly BS 729)	<b>BS EN 10147:2004</b>	Replaced by BS EN 10136:2004
<b>BS 2989</b>	Replaced by BS EN 10147	<b>BS EN 14713:2009</b>	Protection against corrosion of iron and steel in structures – Zinc and aluminium coatings – Guidelines
<b>BS 6946:1988</b>	Specification for metal channel support systems for electrical installations	<b>BS EN 10327:2009</b>	Continuously hot-dip coated strip & sheet of low carbon steels for cold forming. Technical Delivery Conditions
<b>BS EN 10025:1993</b>	Replaced by BS EN 10025-2:2004		
<b>BS EN 10025-2:2004</b>	Hot Rolled Products of structural steels. Technical delivery conditions for non alloy structural steels (formerly BS 10025:1993)		



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