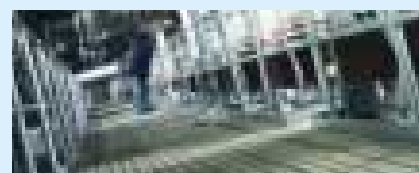
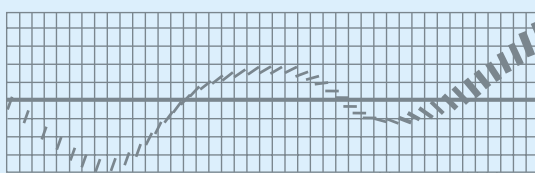
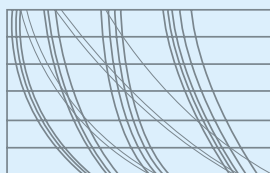


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CABLE MANAGEMENT SOLUTIONS CATALOGUE 2003/04



A COMPLETE CABLE MANAGEMENT SOLUTION FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS

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FASTRACK F31 SYSTEM STEEL WIRE CABLE TRAY

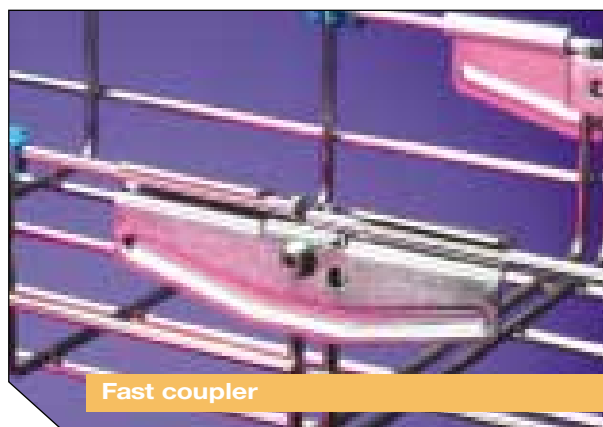


With a large range of sizes and the option of electro-zinc, hot-dipped and stainless steel finishes, Fastrack F31 makes installation easy thanks to its unique coupling system and innovative range of brackets.

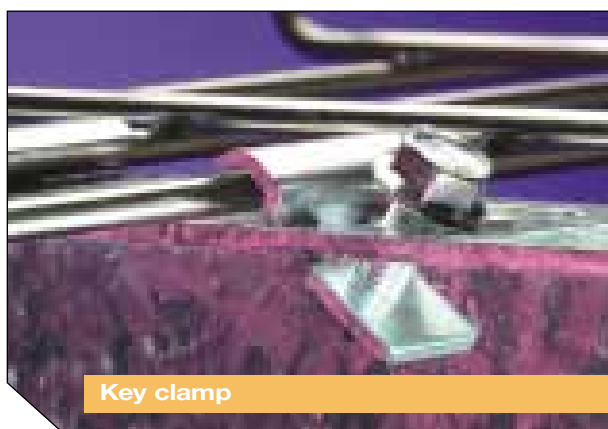
FASTRACK® F31



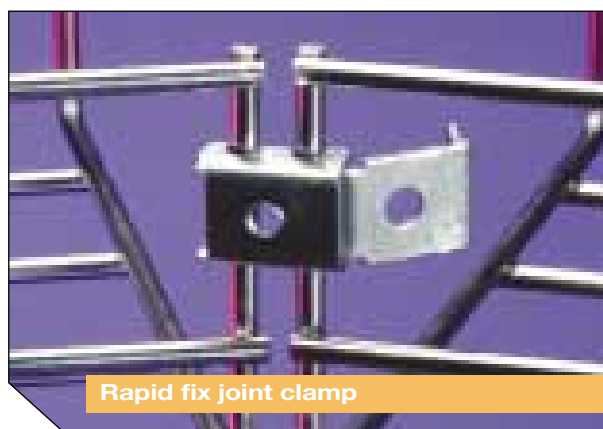
Central hanger support plate



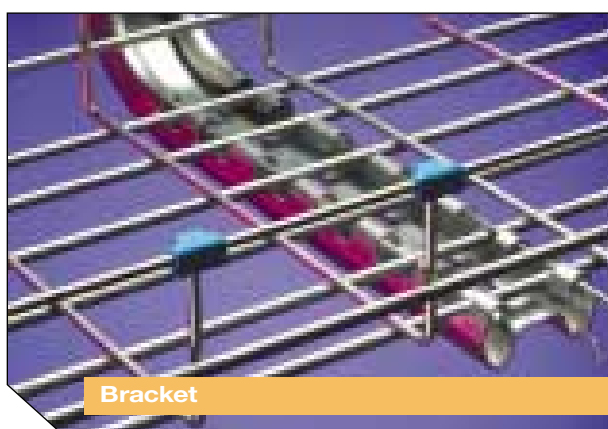
Fast coupler



Key clamp



Rapid fix joint clamp



Bracket



Uni mounting



Rapide... the faster
easier way to design
your cable management
installations

See page 272 for details

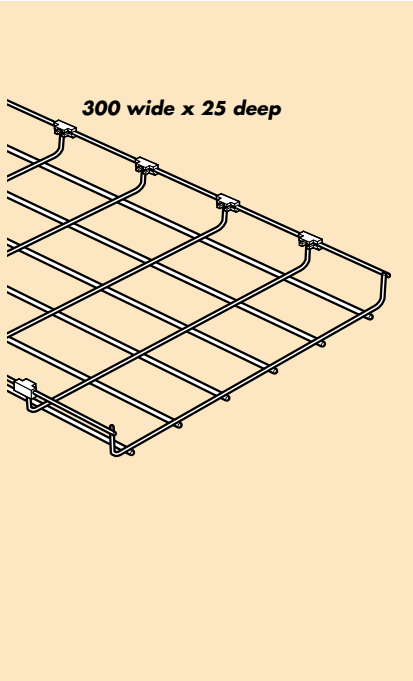
www.legrand.co.uk

Fastrack® F31
steel wire cable tray

FINISHES	
EZ	Electroplated zinc
G	Hot dip galvanized after manufacture to BS EN ISO 1461 (formerly BS729)
SS	Stainless steel, INOX 304, AISI 304

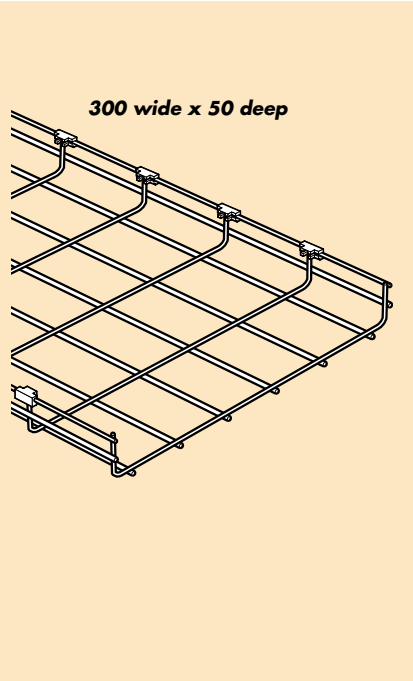
25mm Tray

Width	Depth	EZ	G	SS
75	35	348001	348151	348051
100	35	348002	348152	348052
150	35	348003	348153	348053
200	35	348004	348154	348054
300	37	348005	348155	348055



50mm Tray

Width	Depth	EZ	G	SS
75	55	348011	348161	348061
100	55	348012	348162	348062
150	55	348013	348163	348063
200	55	348014	348164	348064
300	57	348015	348165	348065
400	57	348016	348166	348066
500	57	348017	348167	348067



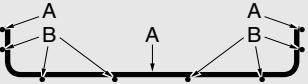
Rod diameters, mm

	up to 300 wide	300 wide and above
A	4.5	4.5
B	4.5	6.5

25mm tray



50mm tray



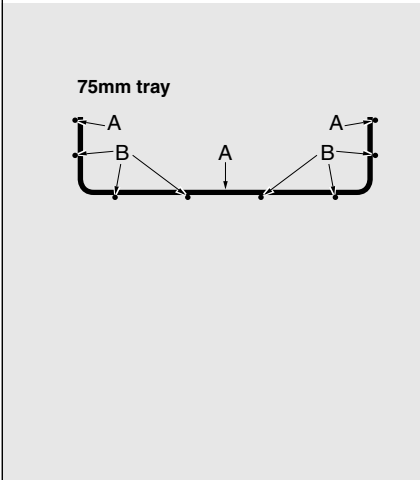
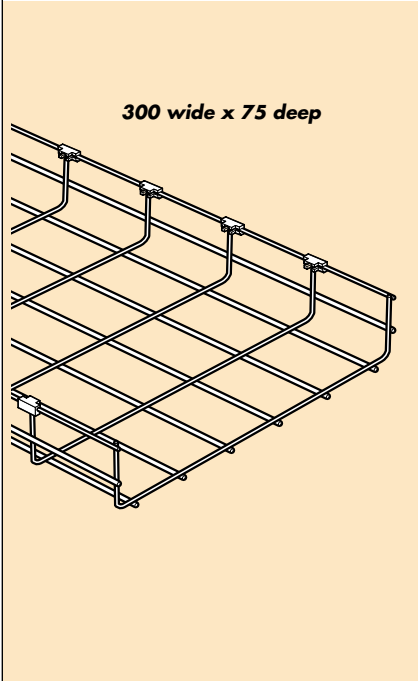
Coupling of Tray **page 65**

Forming Accessories **page 66 and 67**

Fastrack® F31
steel wire cable tray

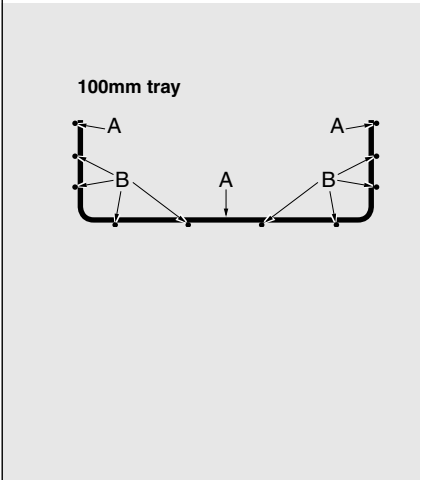
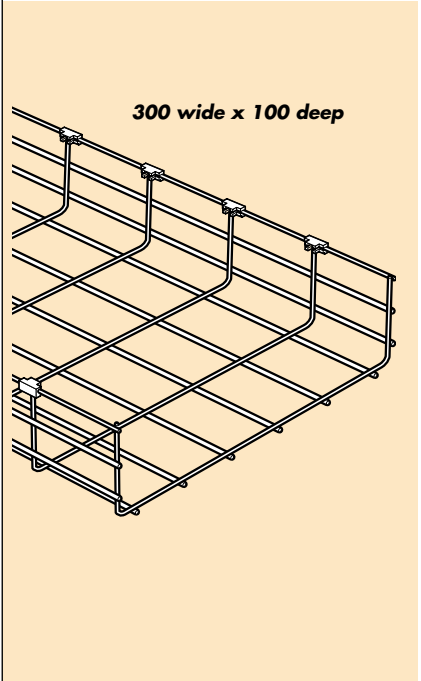
75mm Tray

Width	Depth	EZ	G	SS
100	82	348022	348172	348072
150	82	348023	348173	348073
200	82	348024	348174	348074
300	84	348025	348175	348075
400	84	348026	348176	348076
500	84	348027	348177	348077



100mm Tray

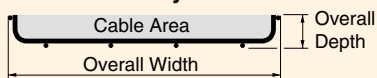
Width	Depth	EZ	G	SS
200	105	348034	348184	348084
300	107	348035	348185	348085
400	107	348036	348186	348086
500	107	348037	348187	348087
600	107	348038	348188	348088



Fastrack® F31

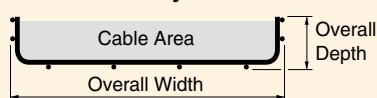
steel wire cable tray - technical information

25mm F31 tray



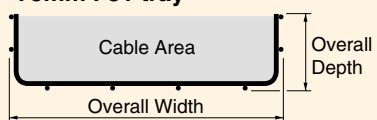
Overall Width	Overall Depth	Cable Area mm²	Electroplated Zinc		Hot Dip Galvanized		Stainless Steel	
			Component Reference	Weight kg/m	Component Reference	Weight kg/m	Component Reference	Weight kg/m
75	35	1512	348001	0.663	348151	0.742	348051	0.675
100	35	2133	348002	0.693	348152	0.776	348052	0.776
150	35	3483	348003	0.882	348153	0.993	348053	0.898
200	35	4833	348004	1.071	348154	1.211	348054	1.091
300	37	7533	348005	2.263	348155	2.582	348055	2.306

50mm F31 tray



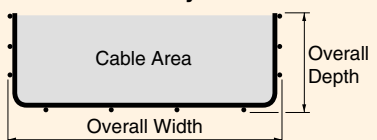
Overall Width	Overall Depth	Cable Area mm²	Electroplated Zinc		Hot Dip Galvanized		Stainless Steel	
			Component Reference	Weight kg/m	Component Reference	Weight kg/m	Component Reference	Weight kg/m
75	55	2576	348011	0.963	348161	1.086	348061	0.981
100	55	3634	348012	0.993	348162	1.121	348062	1.011
150	55	5934	348013	1.182	348163	1.338	348063	1.204
200	55	8234	348014	1.371	348164	1.556	348064	1.397
300	57	12834	348015	2.834	348165	3.238	348065	2.888
400	57	17434	348016	3.484	348166	3.985	348066	3.550
500	57	22034	348017	4.133	348167	4.733	348067	4.212

75mm F31 tray



Overall Width	Overall Depth	Cable Area mm²	Electroplated Zinc		Hot Dip Galvanized		Stainless Steel	
			Component Reference	Weight kg/m	Component Reference	Weight kg/m	Component Reference	Weight kg/m
100	82	5767	348022	1.062	348172	1.201	348072	1.082
150	82	9417	348023	1.251	348173	1.418	348073	1.275
200	82	13067	348024	1.441	348174	1.636	348074	1.468
300	84	20367	348025	2.904	348175	3.318	348075	2.959
400	84	27667	348026	3.553	348176	4.066	348076	3.621
500	84	34967	348027	4.203	348177	4.813	348077	4.283

100mm F31 tray



Overall Width	Overall Depth	Cable Area mm²	Electroplated Zinc		Hot Dip Galvanized		Stainless Steel	
			Component Reference	Weight kg/m	Component Reference	Weight kg/m	Component Reference	Weight kg/m
200	105	17184	348034	1.750	348184	1.991	348084	1.783
300	107	26784	348035	3.484	348185	3.985	348085	3.550
400	107	36384	348036	4.133	348186	4.733	348086	4.212
500	107	45984	348037	4.783	348187	5.480	348087	4.874
600	107	55584	348038	5.433	348188	6.227	348088	5.536

DIMENSIONS

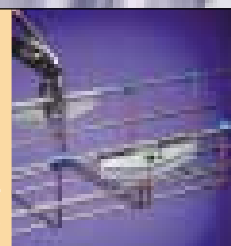
All dimensions given are in millimetres (mm)
per 1 metre tray length.

FASTRACK F31 FAST COUPLER

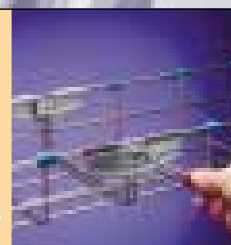
Hang the coupler over the joint and then push on to the basket



Close the clamp firmly with a pair of large pliers



Couplers are re-usable and can be released using a screwdriver



Fastrack F31's easy-install coupler adds extra strength and rigidity to installations with a simple hinged mechanism that can be re-used again and again.

Fastrack® F31

tray connectors

CE

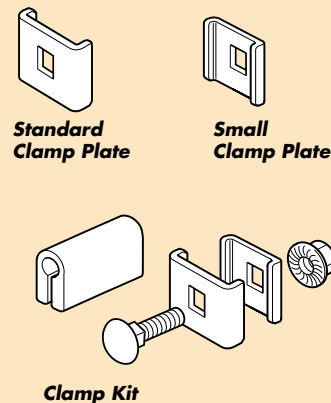
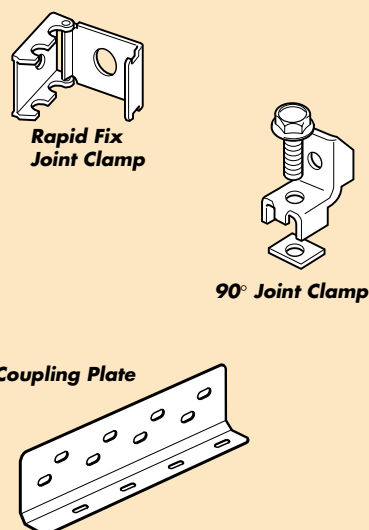
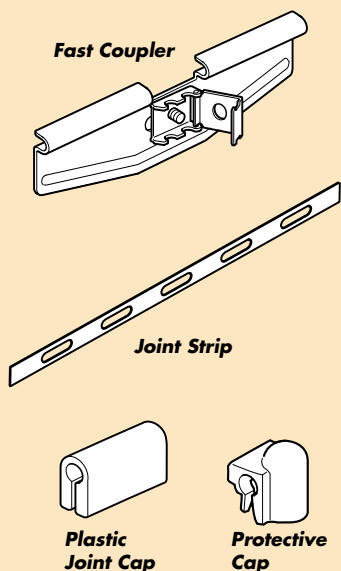
FINISHES

EZ	Electroplated zinc
D	Dacromet
SS	Stainless steel, INOX 304, AISI 304

Fast Coupler		
	EZ	SS
pack 4	348406	348407
Joint Strip		
	EZ	SS
pack 10 (EZ), 2 (SS)	348451	348453
Plastic Joint Cap		
	Blue	Red
pack 50	348404	348512
Protective Cap		
	Blue	Red
pack 100 (blue), 50 (red)	348554	348555

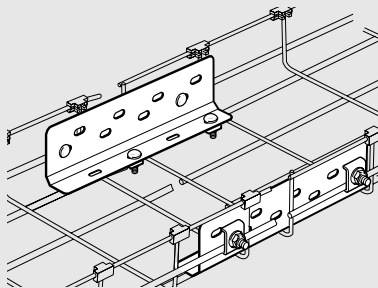
Rapid Fix Joint Clamp		
	EZ	SS
pack 20	348441	348442
Supplied with one plastic joint cap		
90° Joint Clamp		
	EZ	SS
pack 10	348525	348527
For use on 25mm tray when a cover is fitted		
Coupling Plate		
	EZ	SS
pack 4	348452	348454
For joining badly cut tray (75mm and above)		

Standard Clamp Plate		
	EZ	SS
pack 50 (EZ), 20 (SS)	348413	348433
Small Clamp Plate		
	EZ	SS
pack 50 (EZ), 20 (SS)	348412	348424
Clamp Kit		
	EZ	SS
pack 50 (EZ), 20 (SS)	348421	348423
Comprising: 1 x standard clamp plate 1 x small clamp plate 1 x M6x20 coach bolt 1 x M6 nut 1 x plastic joint cap		



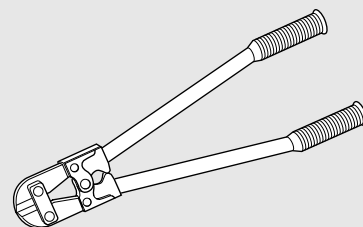
Coupling Plate

Used when joining roughly cut tray. Fasten to tray using standard clamp plates secured with M6x20 coach bolts and M6 nuts (not supplied)



Side Bolt Cutters

KKROP/24/M



Fastrack® F31

fittings and fastenings

FINISHES

EZ Electroplated Zinc
SS Stainless steel, INOX 304, AISI 304

Support Clamp

Electroplated Zinc	pack 20	348534
Stainless steel	pack 12	348535

Hold Down Clamp

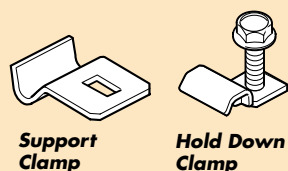
Electroplated Zinc	pack 50	348511
Stainless steel	pack 20	348513

Supplied with one M6 x 14 bolt

Earth Link

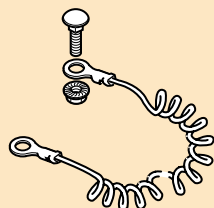
pack 2	348542
--------	---------------

Supplied with one M6 x 20 coach bolt and M6 nut



Support Clamp

Hold Down Clamp



Earth Link

Fastenings

Threaded Rods - 3m

M6	single	TR06
----	--------	-------------

Threaded Rod Connectors

M6	single	RC06
----	--------	-------------

M6x20 Coach Bolts

Electroplated Zinc	pack 100	348411
Stainless steel	pack 100	348431

M6x14 Bolts

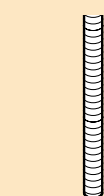
Electroplated Zinc	pack 100	348443
Stainless steel	pack 100	348444

M6 Nuts

Electroplated Zinc	pack 100	348422
Stainless steel	pack 100	348414

Clips

Tray width		EZ	SS
75 to 200	pack 50	348818	348838
300 to 600	pack 50	348819	348839



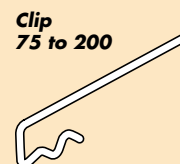
Threaded Rod



M6x20 Coach Bolt



M6x14 Bolt



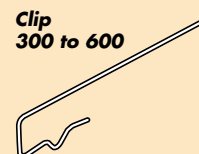
Clip 75 to 200



Threaded Rod Connector



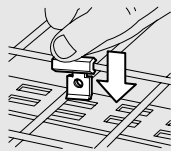
M6 Nut



Clip 300 to 600

Installing a Hold Down Clamp

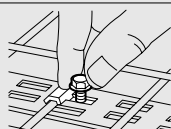
1



2



3

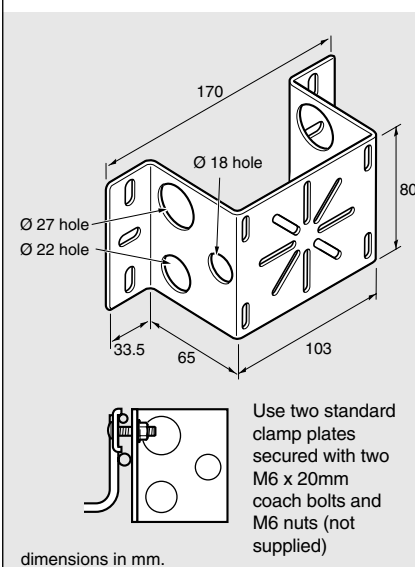
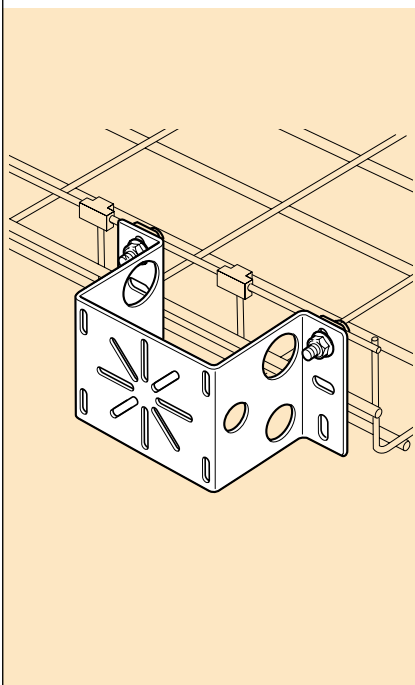


Fastrack® F31

ancillary items

Combined Conduit / Mounting Bracket

Electroplated Zinc	pack 2	348519
Stainless steel	pack 2	348520

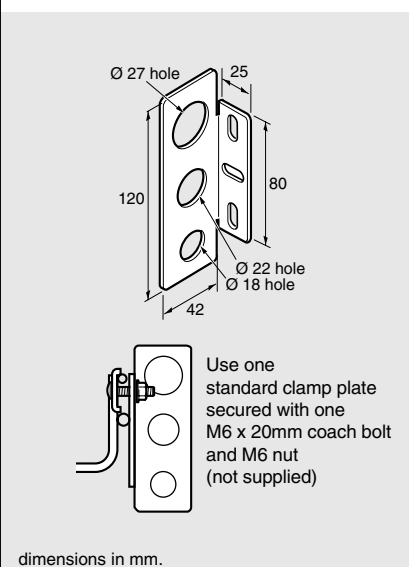
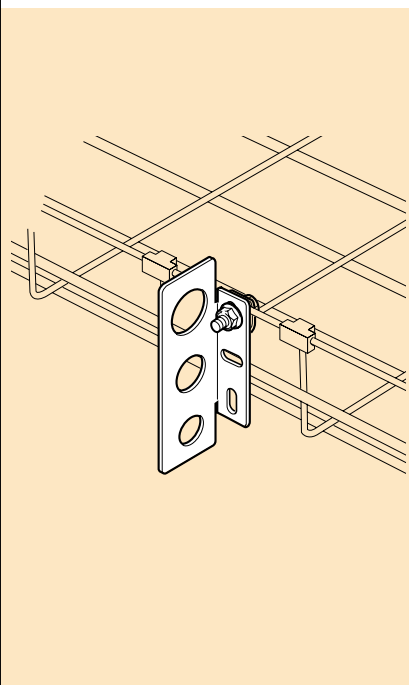


Clamp Plates

page 60

Conduit Mounting Bracket

Electroplated Zinc	pack 2	348515
Stainless steel	pack 2	348516

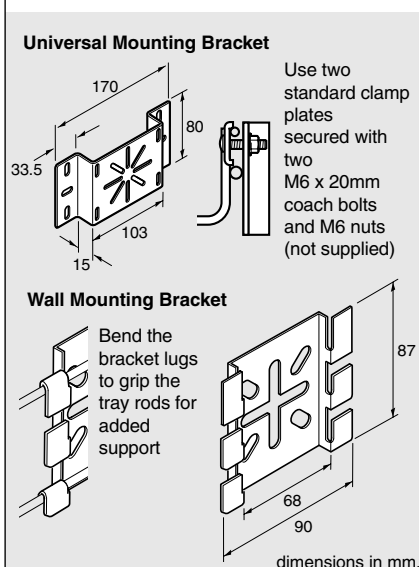
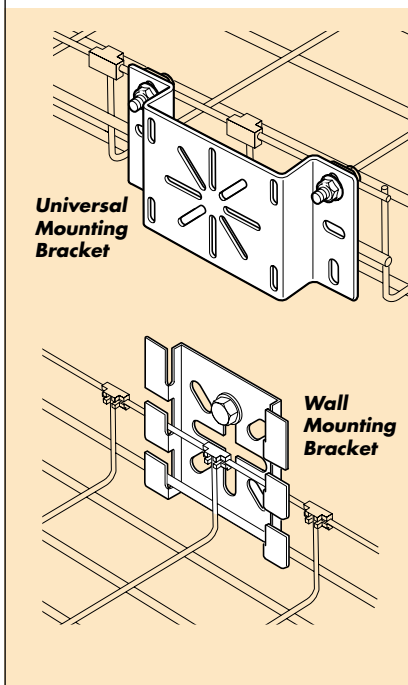


Clamp Plates

page 60

Universal Mounting Bracket

Electroplated Zinc	pack 2	348521
Stainless steel	pack 2	348522

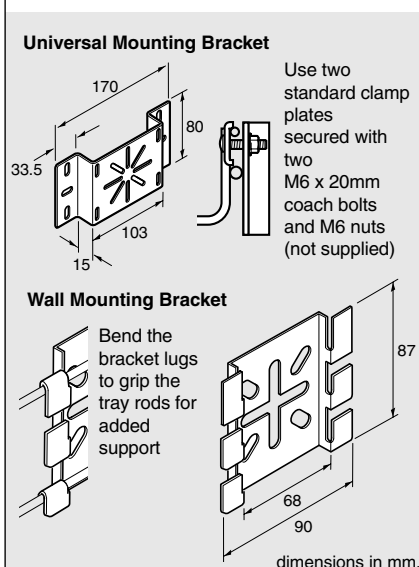
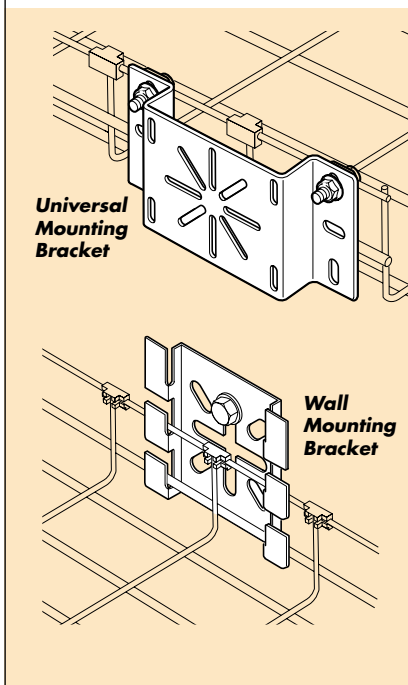


Clamp Plates

page 60

Wall Mounting Bracket

Electroplated Zinc	pack 2	348538
Stainless steel	pack 2	348539



Clamp Plates

page 60

Fastrack® F31

ancillary items

FINISHES

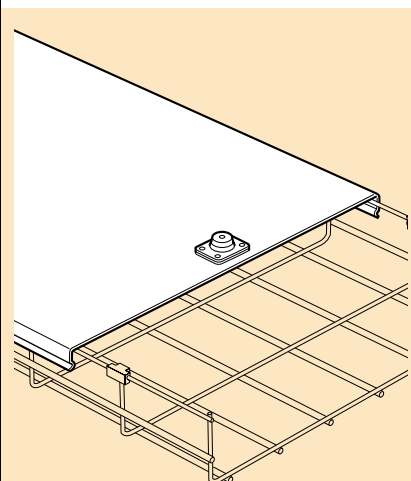
EZ, G and SS

page 56

Covers

3 metre lengths

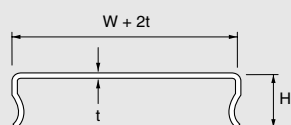
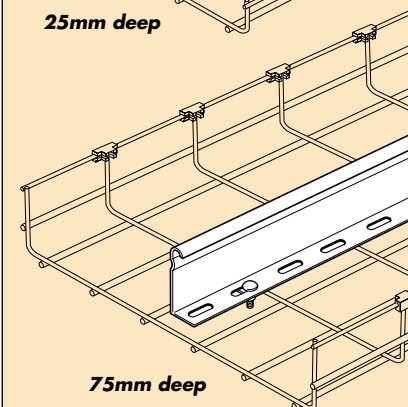
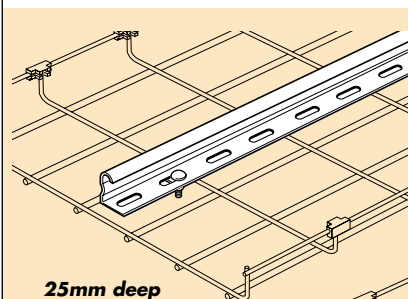
Width	EZ	G	SS
75	340170	344170	346313
100	340171	344171	346314
150	340172	344172	346315
200	340173	344173	346316
300	340174	344174	346317
400	340154	344154	346312
500	340155	344155	346477
600	340156	344156	346478



Dividers

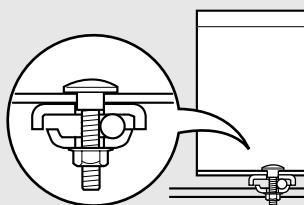
3 metre lengths

Depth	EZ	G	SS
25	341518	343518	346479
50	341534	343534	346475
75	341590	343590	346456
100	341657	343657	346476



EZ	G	SS	W	H	t
340170	344170	346313	75	21	0.5
340171	344171	346314	100	21	0.5
340172	344172	346315	150	21	0.5
340173	344173	346316	200	21	0.6
340174	344174	346317	300	21	0.6
340154	344154	346312	400	21	0.8
340155	344155	346477	500	21	0.8
340156	344156	346478	600	21	0.8

dimensions in mm.



Fit the divider to tray using a clamp kit (supplied separately) every metre.

Clamp Kit

page 60

Fastrack® F31

ancillary items

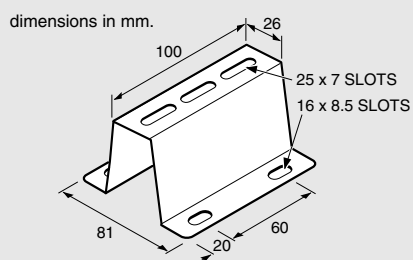
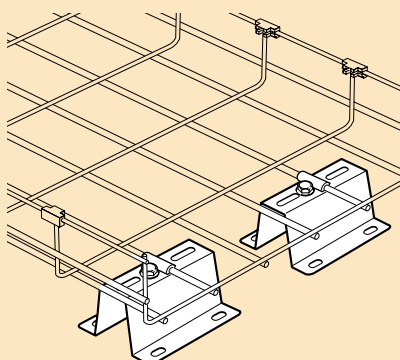
FINISHES
EZ and SS

page 56

CE

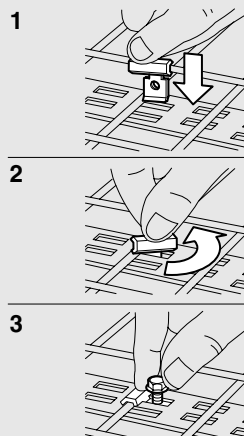
Floor Mounting Bracket

	EZ	SS
pack 2	348530	348531



The floor mounting bracket can be screwed to the floor using M6 bolts or No.10 woodscrews (not included).

Installing the Floor Mounting Bracket
Fasten to the tray with hold down clamps, secured with M6 x 20mm coach bolts and M6 nuts (not supplied).

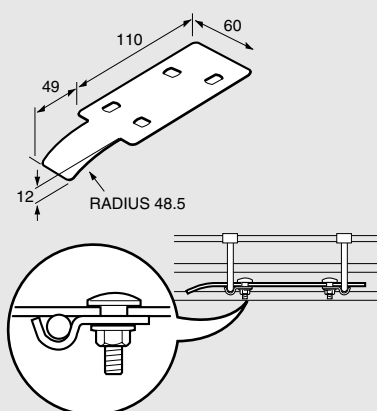
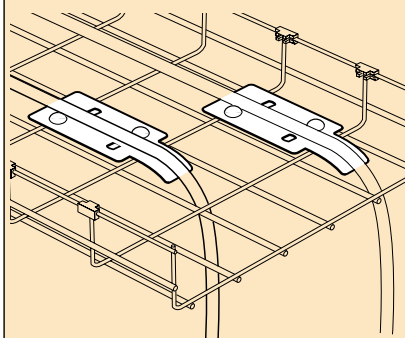


Hold Down Clamps

page 61

Dropout Plate

	EZ	SS
pack 4	348545	348546



The dropout plate is fastened to the tray with two support clamps, secured with M6 x 20mm coach bolts and M6 nuts.

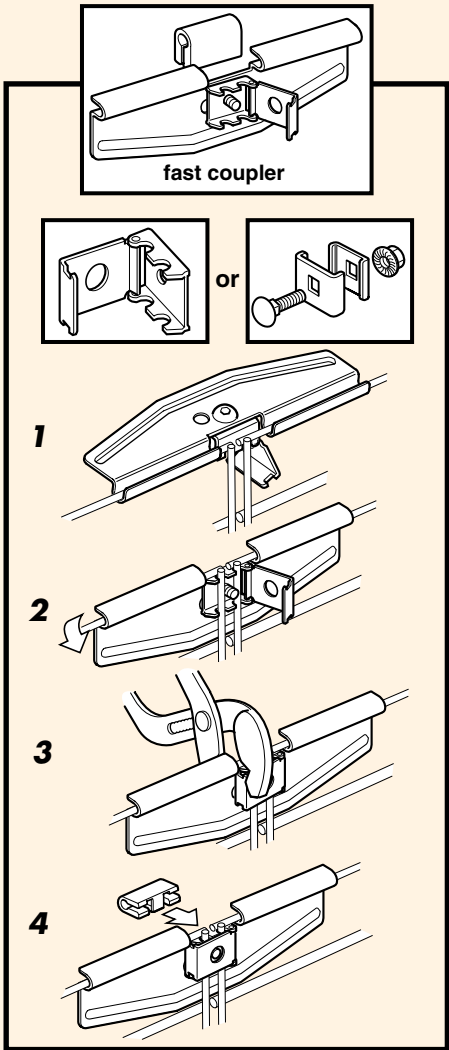
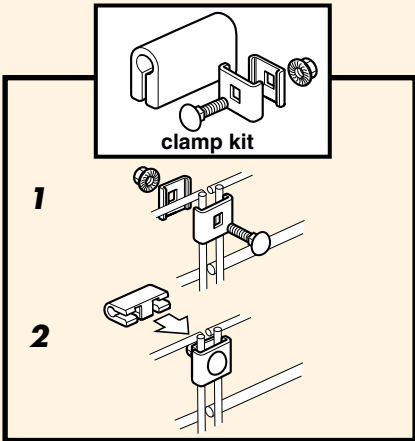
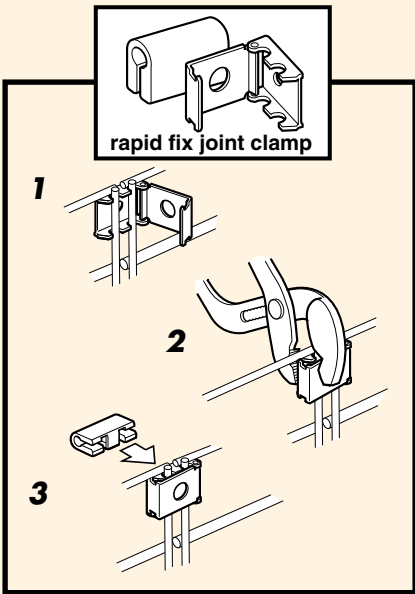
dimensions in mm.

Support Clamps

page 61

Fastrack® F31

steel wire cable tray - technical information



tray width mm			connectors per joint
75			2
100			2
150			2
200			3
300			3
400			4
500			4
600			4

Fastrack® F31

steel wire cable tray - forming accessories

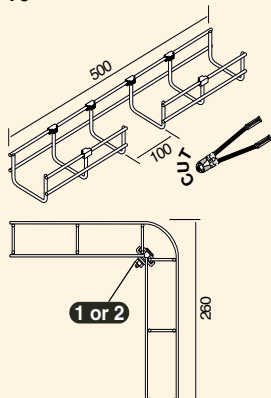
Accessory	Tray Width	Rapid Fix Joint Clamp 1 Clamp Kit 2	M6 x 20 Coach Bolt 3	Standard Clamp Plate 4	Joint Strip 5	Central Hanger Support Plate 6	M6 Nut 7
	75	1	--	--	--	--	--
	100 150	1	--	--	--	--	--
	200 to 600	1	1	--	--	2	1
	100 to 600	2	-	-	-	-	-
	100 to 600	--	2	2	1	--	2
	ALL	--	--	--	--	--	--
	ALL	2	2	2	1	--	2
	ALL	3	--	--	--	--	--
	ALL	6	--	--	--	--	--
	75-100	1	2	2	1	--	2
	150	3	2	2	1	--	2
	200	3	2	2	1	--	2
	300	5	2	2	1	--	2
	400	6	2	2	1	--	2
	500	8	2	2	1	--	2
	600	10	2	2	1	--	2

Fastrack® F31

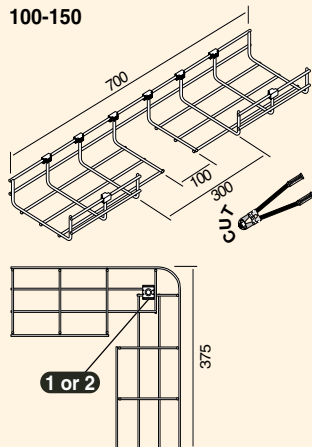
steel wire cable tray - forming accessories

tight bends

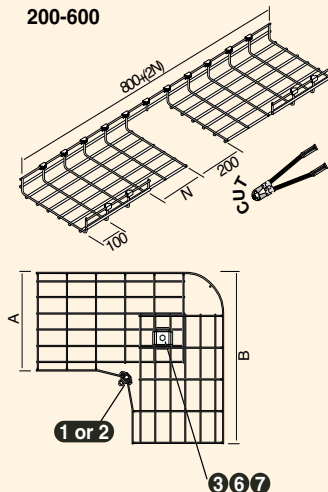
75



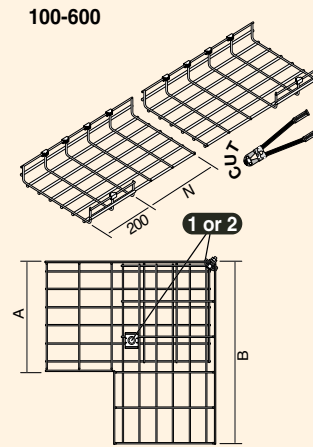
100-150



200-600



100-600

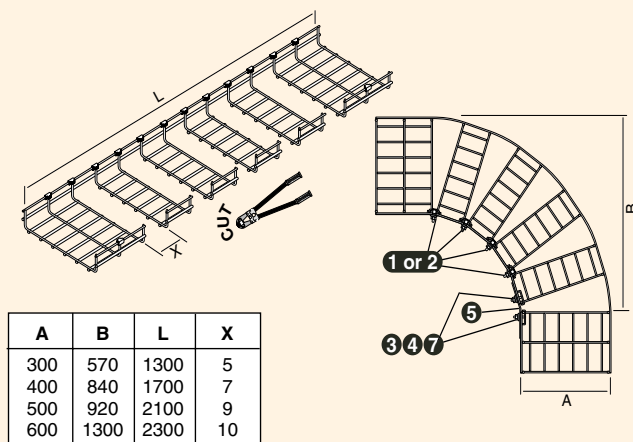


A	B	N
200	525	100
300	625	200
400	725	300
500	825	400
600	925	500

A	B	N
100	300	100
150	400	200
200	400	200
300	500	300
400	600	400
500	700	500
600	800	600

dimensions in mm.

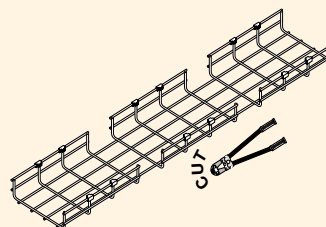
large radius bends



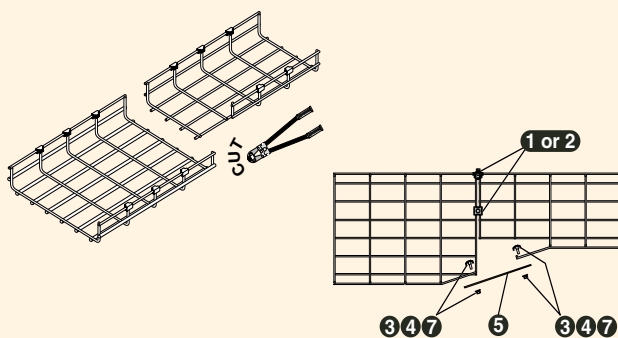
A	B	L	X
300	570	1300	5
400	840	1700	7
500	920	2100	9
600	1300	2300	10

dimensions in mm.

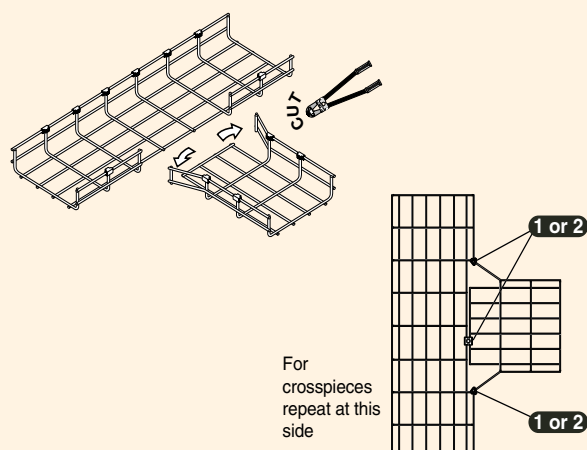
risers



reducers



tees and crosspieces

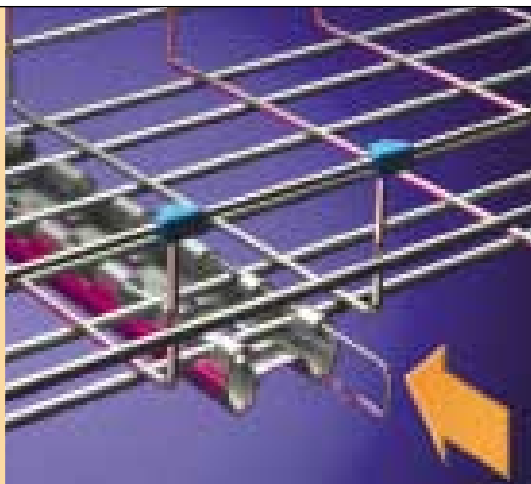


MULTIPURPOSE BRACKET SYSTEM

This ingenious bracket system can be used in multiple orientations and incorporates a fast-clip fully re-usable mechanism to quickly secure the basket without the need for tools.

FASTRACK® F31

The fast-clip mechanism requires no tools for installation and is fully re-usable. Simply drop the cable tray into the bracket slots and then push in the clip. The tray is then held securely in place by the unique design and firm hold of the fast-clip mechanism



To meet the requirements of today's demanding installations, the Fastrack F31 system incorporates a unique multi-orientation bracket that can be mounted horizontally or vertically, allowing the cable tray to sit in or on the bracket and follow its course with no problem



To complete the range, a clic rail is also available for installations where a suspended cable tray is required. The bracket uses the same slot design and innovative fast-clip mechanism as the multi-orientation wall bracket, offering speed, simplicity and re-usability



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Fastrack® F31

multi-purpose supports

FINISHES
EZ, G, and SS

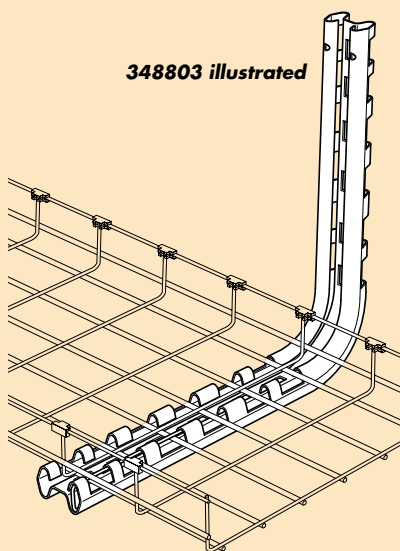
page 56

Clip Fit Brackets Reversible

	EZ	G	SS
Tray width 100	348800	348840	348820
Tray width 150	348801	348841	348821
Tray width 200	348802	348842	348822
Tray width 300	348803	348843	348823

One clip (supplied) is required to attach each bracket

348803 illustrated

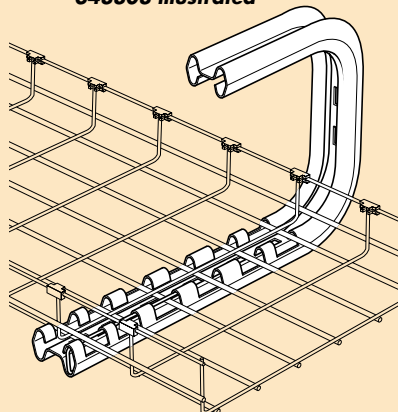


Roof Support Brackets

	EZ	G	SS
Tray width 100	348805	348845	348825
Tray width 150	348806	348846	348826
Tray width 200	348807	348847	348827
Tray width 300	348808	348848	348828

One clip (supplied) is required to attach each bracket

348808 illustrated

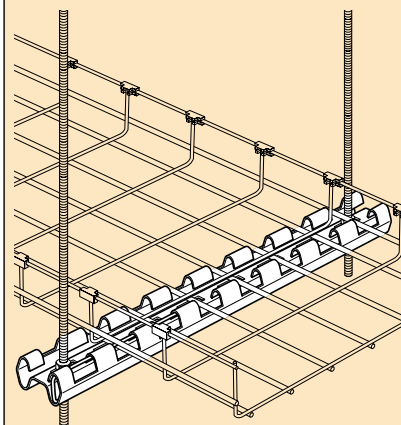


Click Struts

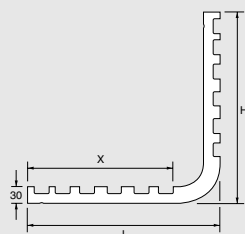
	EZ	G	SS
Tray width 75	348810	348850	348830
Tray width 100	348811	348851	348831
Tray width 150	348812	348852	348832
Tray width 200	348813	348853	348833
Tray width 300	348814	348854	348834
Tray width 400	348815	348855	348835
Tray width 500	348816	348856	348836
Tray width 900	348817	348857	348837

One clip (not supplied) is required to attach each click strut

348854 illustrated

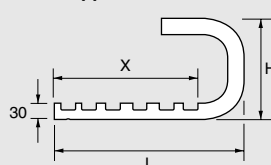


Clip Fit Bracket Reversible



EZ	G	SS	X	H	L
348800	348840	348820	100	171	171
348801	348841	348821	150	223	223
348802	348842	348822	200	274	274
348803	348843	348823	300	356	356

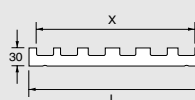
Roof Support Bracket



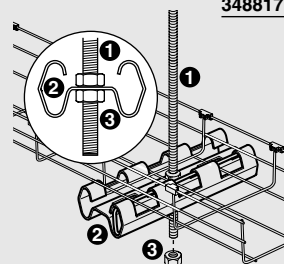
EZ	G	SS	X	H	L
348805	348845	348825	100	235	180
348806	348846	348826	150	235	223
348807	348847	348827	200	235	274
348808	348848	348828	300	235	356

dimensions in mm.

Click Strut



EZ	G	SS	X	L
348810	348850	348830	75	149
348811	348851	348831	100	196
348812	348852	348832	150	243
348813	348853	348833	200	290
348814	348854	348834	300	384
348815	348855	348835	400	478
348816	348856	348836	500	572
348817	348857	348837	600	854



Key

- 1 Threaded rod, M6
- 2 Click strut
- 3 Nut, M6

Clips

page 61

Threaded Rod

page 61

M6 Nuts

page 61

Fastrack® F31

supports and brackets

FINISHES

-/G

page 56

-/PG

Pre-galvanized steel to BS EN 10142 & 3

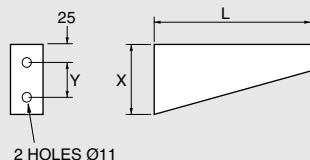
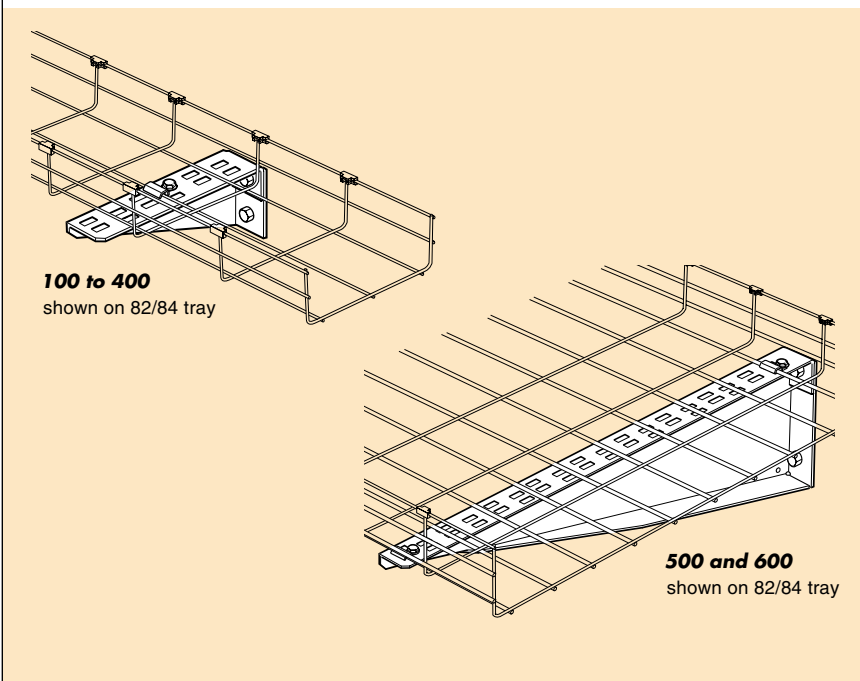
-/SS

Stainless steel to BS EN 10088 grade 1-4401 (equivalent to 316S31)

Cantilever Arms, Heavy

Tray width 100	KHCA/100/ FINISH
Tray width 150	KHCA/150/ FINISH
Tray width 225	KHCA/225/ FINISH
Tray width 300	KHCA/300/ FINISH
Tray width 400	KHCA/400/ FINISH
Tray width 500	KHCA/500/ FINISH
Tray width 600	KHCA/600/ FINISH

Use -/PG finish for Electroplated zinc finish Tray



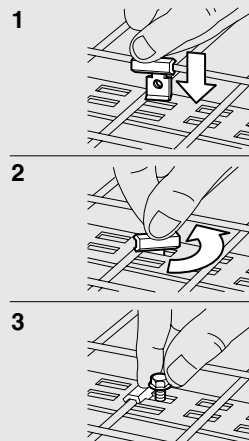
2 HOLES Ø11

	L	X	Y
KHCA/100/_	140	75	30
KHCA/150/_	190	75	30
KHCA/225/_	265	90	45
KHCA/300/_	340	90	45
KHCA/400/_	440	120	75
KHCA/500/_	540	180	125
KHCA/600/_	640	180	125

dimensions in mm.

Installing the Cantilever Arm

Fasten to the tray with hold down clamps, secured with M6 x 20mm coach bolts and M6 nuts (not supplied).



Hold Down Clamps

page 61

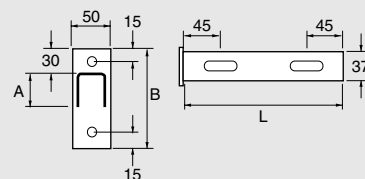
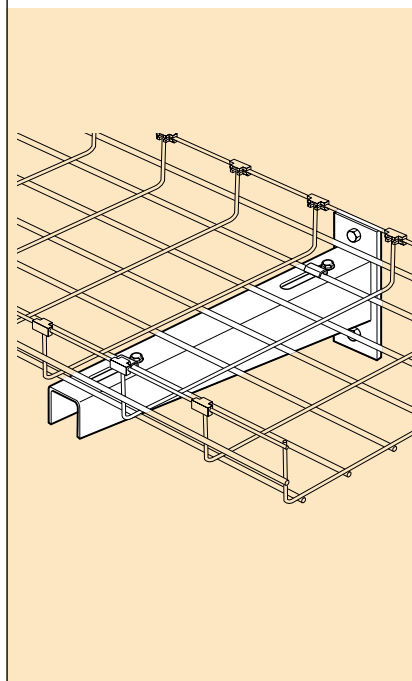
FINISHES

-/G

page 56

Light Duty Cantilever Brackets

Tray width 100/150	343825
Tray width 200	343826
Tray width 300	343827
Tray width 400	343828
Tray width 500	343829
Tray width 600	343830



	Width	A	B	L
343825	100/150	50	110	220
343826	200	55	120	270
343827	300	60	130	320
343828	400	70	130	420
343829	300	80	140	520
343830	400	90	150	620

dimensions in mm.

Installing the Cantilever Bracket (see adjacent panel)

Fasten to the tray with hold down clamps, secured with M6 x 20mm coach bolts and M6 nuts (not supplied).

Hold Down Clamps

page 61

Fastrack® F31

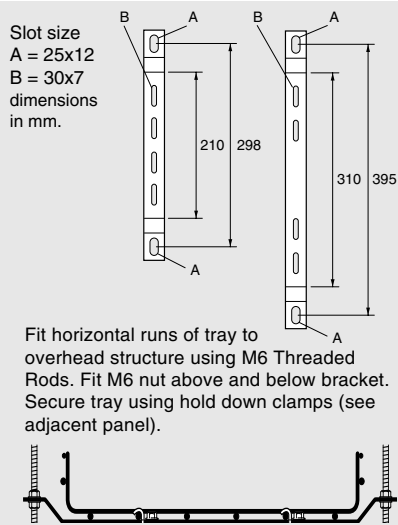
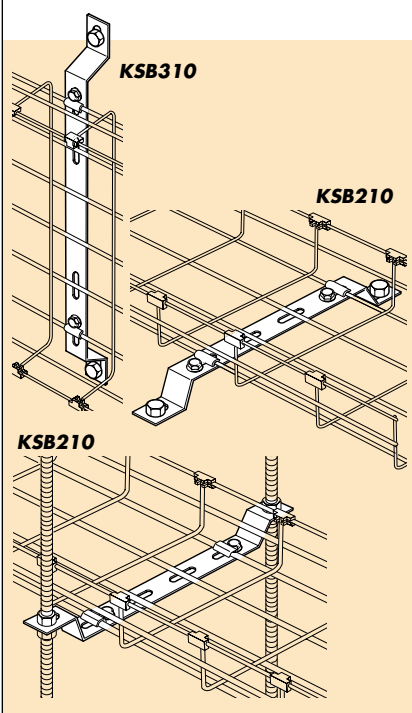
supports and brackets

FINISHES -/PG -/G and -/SS page 71 page 56

Stand-Off/Light Trapeze Brackets

Small **KSB210/ FINISH**
Large **KSB310/ FINISH**

FINISH = -/PG, -/G and -/SS.
Use -/PG finish for Electroplated zinc finish Tray



Hold Down Clamps **page 61**

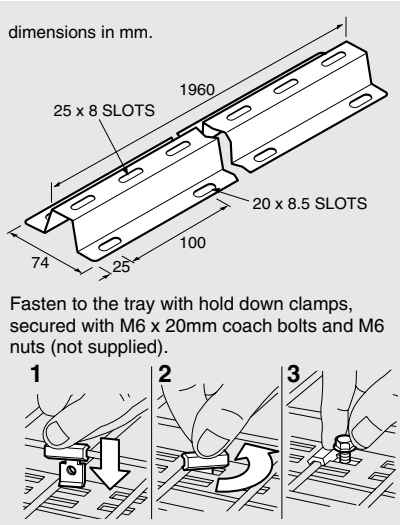
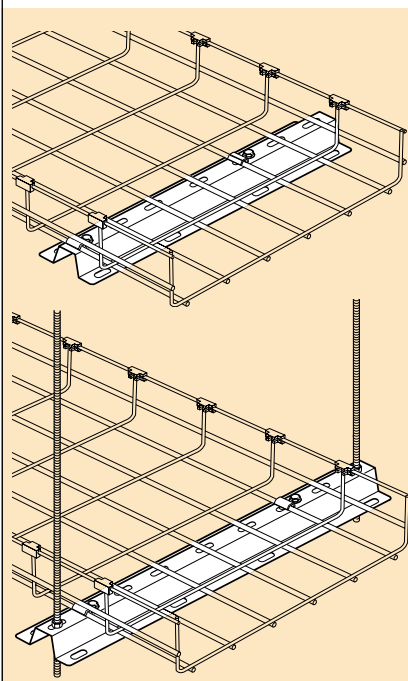
Threaded Rods **page 61**

FINISHES EZ and SS page 56

General Support

pack 2 **348503 348504**

Supplied in 2 metre lengths which can be cut to the required length on site.



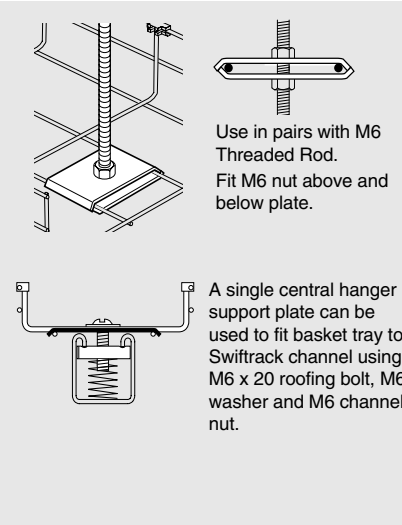
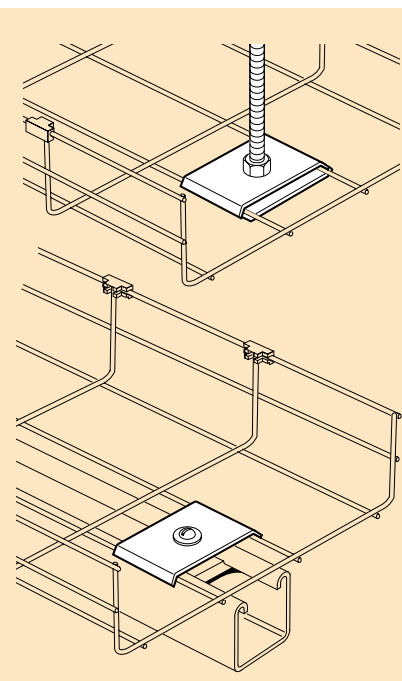
Hold Down Clamps **page 61**

Threaded Rods **page 61**

FINISHES EZ, D and SS page 60

Central Hanger Support Plate

pack 20 **348507 348508 348510**



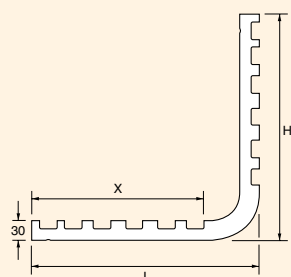
Threaded Rods **page 61**

Channel Nuts **page 79**

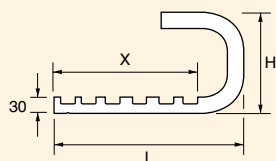
Fastrack® F31

brackets - technical information

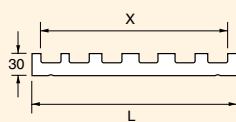
Clip Fit Bracket Reversible



Roof Support Bracket



Clik Strut



Tray Width X	Component Reference					SWL*	Weight kg. each	Pack Qty
	EZ	G	SS	H	L			
100	348800	348840	348820	171	171	55	0.429	20
150	348801	348841	348821	223	223	60	0.575	20
200	348802	348842	348822	274	274	65	0.713	20
300	348803	348843	348823	356	356	70	0.932	20

*SWL: Safe Working Load, kgf

Tray Width X	Component Reference					SWL*	Weight kg. each	Pack Qty
	EZ	G	SS	H	L			
100	348805	348845	348825	235	180	90	0.860	20
150	348806	348846	348826	235	223	95	0.880	20
200	348807	348847	348827	235	274	100	0.949	20
300	348808	348848	348828	235	356	105	1.060	20

*SWL: Safe Working Load, kgf

Tray Width X	Component Reference				Weight kg. each	Pack Qty
	EZ	G	SS	L		
75	348810	348850	348830	149	0.2128	20
100	348811	348851	348831	196	0.2790	20
150	348812	348852	348832	243	0.3452	20
200	348813	348853	348833	290	0.4114	20
300	348814	348854	348834	384	0.5438	20
400	348815	348855	348835	478	0.6732	20
500	348816	348856	348836	572	0.8086	20
900	348817	348857	348837	854	1.2058	20

DIMENSIONS

All dimensions given are in millimetres (mm).

Fastrack® F31

steel wire cable tray - technical information

Tray Specification

Product definition

F31 tray is supplied in 3 metre lengths.
Widths: 75 to 600mm
Cable carrying depths: 27, 50, 75 and 100mm

Material specification

Zinc electro-plated steel
Hot dip galvanized after manufacture
Stainless steel to AISI 304
Stainless steel to AISI 316L (to special order)

Fitted Protective Caps

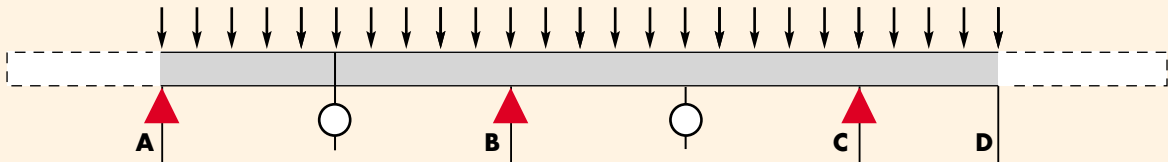
Material specification

Polypropylene
Flame test: UL94-V2
Working temperature: -20°C to +80°C
Glow wire test: 960°C

Safe Working Load Test

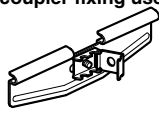
The test method as laid down in BS EN 61537, Test type 1 with the joints in the most demanding position reflecting the worst case condition.

Based on 1/100 of the span or 1/20 of the bed width (15mm on a 1.5m span), the limiting factor was the deflection. The load was then increased to the required safety factor of 1.7 and still no collapse, buckling or deformation was apparent. This indicates that the maximum load arrived at through the deflection test is the declared Safe Working Load.



Test method according to BS EN 61537, Test type 1

Table showing Safe Working Load (daN/m)
over a 1.5m span

		PRODUCT WIDTHS (mm)							
		75	100	150	200	300	400	500	600
CABLE CARRYING DEPTHS (mm)	27	10.8	10.8	10.8	12.0	19.6	—	—	—
	50	17.6	17.6	19.6	19.6	44.1	48.0	48.0	—
	75	—	19.6	23.5	32.3	49.0	52.9	52.9	—
	100	—	—	—	49.0	72.5	72.5	82.3	82.3
Rapid fix joint clamp fixing used for test						Fast coupler fixing used for test			
									

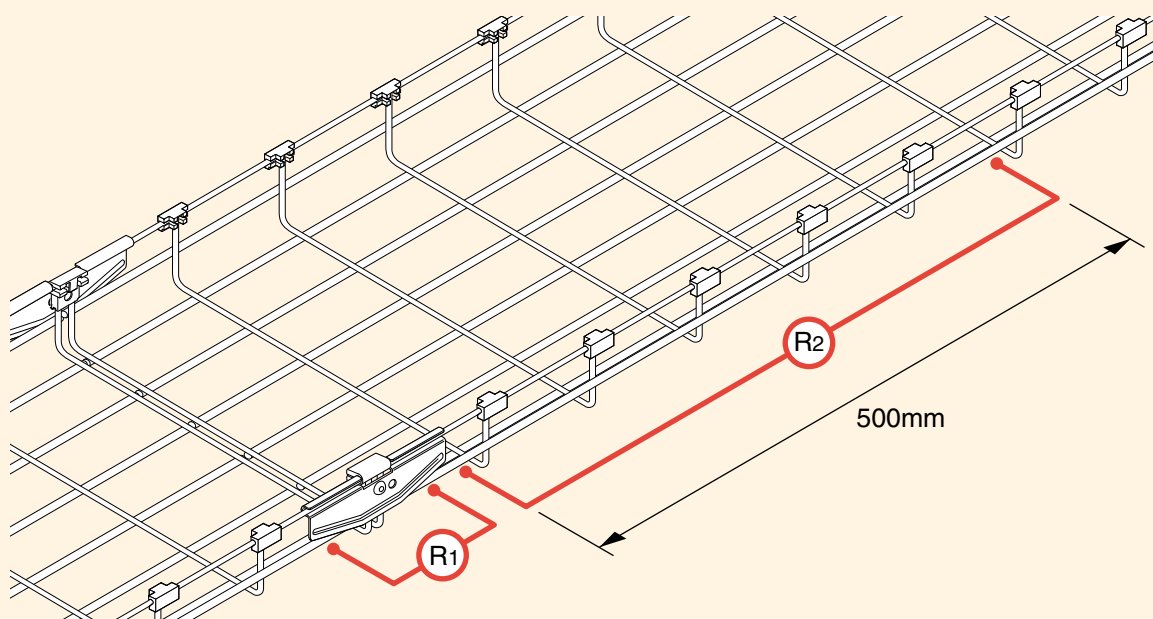
Fastrack® F31

steel wire cable tray - technical information

Electrical Continuity

When properly fixed and jointed, the continuity of Fastrack provides equipotential bonding to earth and for general installations additional earth connectors are not necessary.

The pertinent test to confirm this is IEC 61537 Section 11.1. The test measures the electrical resistance value at two points along the product as shown below:



Within the standard the maximum admissible values are:

$$R_1 \leq 50 \text{ m}\Omega$$

$$R_2 \leq 5 \text{ m}\Omega$$

Under test conditions the following results were obtained on a typical length of Fastrack tray with electroplated zinc finish.

These results being well below the maximum laid down by IEC 61537:

$$R_1 = 8 \text{ m}\Omega$$

$$R_2 = 2.5 \text{ m}\Omega$$

In special locations or hazardous areas (as described in BS 7671: Section 6) independent earth conductors may be necessary and subject to consideration by a competent electrical engineer.