



Interlake MECALUX

Product Support Guide

Selective Roll Formed Beams and Frames



Selective Roll Formed Beams and Frames

- 4 General Information, Product Description, Code Compliance, Availability and Shipping Locations
- 5 General Design Considerations
- 6 Selective Roll Formed Beams and Frames Overview

Bolted Frames

- 7 Bolted Roll Formed Frames Components
- 8 Bolted Frame Capacities
- 10 Bolted Frames and Posts General Information
- 11 Standard Foot Plates and Shims
- 13 Heavy-Duty Foot Plates and Shims
- 18 UA10 Foot Plates, Shims and Row Spacers
- 20 Struts and Anchors
- 21 Bolted Reinforced Frames Components
- 23 Bolted Reinforced Frames Capacities
- 24 Bolted Frame Splicing
- 25 Row Spacer Distribution
- 26 Row Spacers and Fixing Frame Clips
- 29 Wall Ties
- 30 Post Protectors
- 32 Floor Mounted Protectors
- 34 End of Aisle Protectors
- 36 Cross Aisle Ties
- 38 Pallet Stops
- 40 Backstop

Product Support Guide

Selective Roll Formed Beams and Frames



Welded Frames

- 41 Welded Roll Formed Frames Components
- 43 Welded Frame Capacities
- 44 Welded Post and Frames General Information
- 45 Standard Foot Plates and Shims
- 46 Heavy-Duty Foot Plates, Shims and Anchors
- 47 Struts and Defender Bases
- 48 Welded "JF", "MF" Foot Plates and Reinforcement
- 49 Heavy Bottom Horizontal and Post Caps
- 50 Welded Frame Splicing
- 51 Row Spacers
- 57 Rigid Row Spacers
- 59 Wall Ties
- 60 Post and Floor Mounted Protectors
- 61 Barrier Rail (Intergard 50)
- 64 Cross Aisle Ties
- 66 Backstop and Pallet Stops
- 68 Reel Holders
- 69 Reel Holder Base Assembly and RMI Sign

Roll Formed Beams

- 70 Roll Formed Beams Overview
- 72 Beam Profiles
- 73 Beam End Plates
- 74 Beam Weld, Unslotted and Slotted
- 75 Beam Drop Options and Minimum Beam Elevation
- 76 Beams with Tabbed End Plate Capacity Charts
- 77 Pallet Supports Double Flanged Crossbar
- 78 Roll In Pallet Support Crossbars
- 79 Low Profile Roll In Pallet Support Crossbars
- 80 Shelf Panels
- 82 Shelf L-US U
- 83 Fork Clearance Bar
- 84 Drum Coil Bed
- 85 Drum Coil Cradle



Selective Roll Formed Beams and Frames

GENERAL INFORMATION

This support guide covers technical information for Selective Roll Formed Beams and Frames. Selective Roll Formed Beams and Frames are a very cost-effective design solution for medium-heavy loads.

PRODUCT DESCRIPTION

The tear drop design, in tandem with our patented piston lock end plates, allow for a simple, secure and very quick installation. As beams do not require bolts to connect to uprights, the beam elevations can be modified as product changes - allowing for a very versatile design without the need of reordering material.

CODE COMPLIANCE

Interlake Mecalux storage systems are designed in compliance with the 2012 edition of the "Specification for the Design, Testing and Utilization of Industrial Steel Storage Rack" published by the Rack Manufacturers Institute (RMI). This specification has been adopted by the American National Standards Institute (ANSI-MH16.1) as a national standard and is referenced by the 2006 International Building Code (IBC). Our designs also comply with the 2007 American Iron and Steel Institute's (AISI) North American Specification for the Design of Cold-Formed Steel Structural Members. In addition, the Mecalux Group follows the standards set forth by IAS (International Accreditation Service), the City of Los Angeles, the City of Phoenix and Clark County.













AVAILABILITY AND SHIPPING LOCATIONS

Interlake Mecalux frames and accessories are manufactured and distributed from our plants located at:

701 Interlake Drive Pontiac, IL 61764 1600 N. 25th Avenue Melrose Park, IL 60160 Blvd. Bellas Artes 9001 22444 Tijuana, B.C. Mexico Las Rusias 2700, Industrial del Norte Matamoros Tamaulipas, Matamoros 87316

ISO 9001:2000 certified, ISO 9001:2000 certified Matamoros, Mexico 87310 and Tijuana, Mexico 22444.

Commonly ordered products are available from our Interlake Mecalux Quick Ship Program from our distribution centers:

701 Interlake Drive Pontiac, IL 61764 12301 N Stemmons Fwy Suite # 110 Farmers Branch, TX 75234 8607 Ave de la Fuente San Diego, CA 92154 1600 N. 25th Avenue Melrose Park, IL 60160



Selective Roll Formed Beams and Frames

GENERAL DESIGN CONSIDERATIONS

PALLETS

Pallets are flat transport structures that support goods in a stable fashion while being lifted by a forklift. They supply the structural foundation of the unit load and as such are an important consideration for the design of any warehouse.

Interlake Mecalux products are optimized to the dimensions of the standard pallet used in the U.S., the Grocery Manufacturers' Association or GMA pallet.

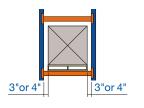
CLEARANCES

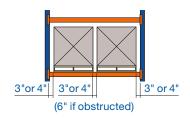
In any design, it is important to consider the vertical clearances required to successfully lift the load and pallet off the rack using a forklift or pallet jack. As an industry standard, the distance from the top of the pallet load overhead is 4" to 6".

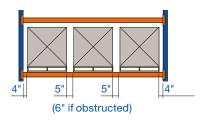
The pallet must extend 3" beyond the frame depth on either side to ensure proper pallet support.

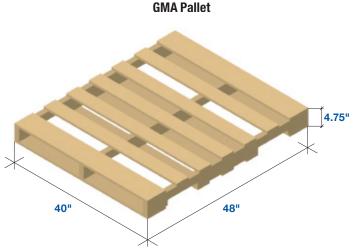
CLEARANCES BETWEEN PALLETS AND POSTS

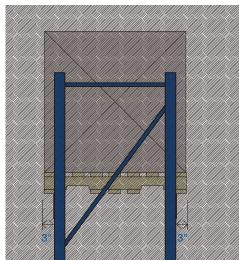
Each pallet should be positioned 3'' or 4'' from any adjacent post or pallet, unless the bay has a 3'' pallet width. In this case, a 5'' clearance should be provided between pallets and 4'' between post and pallet.



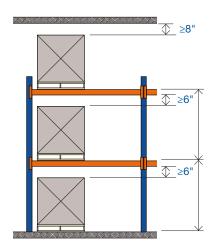








Frame Depth Clearances - Side Elevation



Load Level Clearances - Front Elevation

SELECTIVE ROLL FORMED BEAMS AND FRAMES

OVERVIEW

Selective rack is the most common type of storage solution found across the United States. It is a static system combining beams and frames to provide proper storage for pallets and other large items. Selective rack also comes with a variety of accessories and options, which are detailed in this guide.

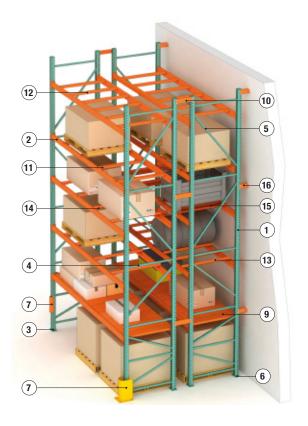
Frames are the vertical elements of the racks. They are rectangular in shape and come in a variety of heights, widths and depths depending on the load being stored and the model of frame being used. A standard frame consists of two posts connected by a series of horizontal and diagonal struts and includes a foot plate welded or bolted to the bottom of each post.

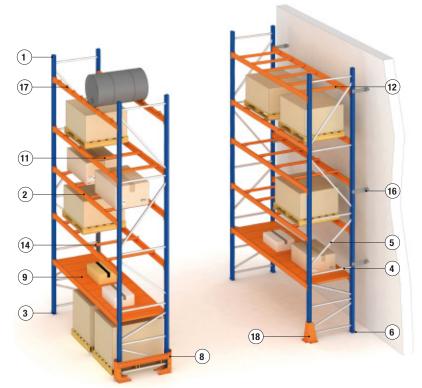
Beams are the horizontal elements of the system and are typically orange. Interlake Mecalux offers several different sizes and profiles of beams with varying capacities to fit the needs of the customer and the items being stored. Pallets are placed directly on the beams. Special accessories can be added to help support loads or store specialty loads such as drum coils.

Components

- 1. Frame
- 2. Beam
- 3. Foot plate
- 4. Horizontal strut
- 5. Diagonal strut
- 6. Shim
- 7. Post protector
- 8. End aisle protector
- 9. Shelf panel
- 10. Row spacer
- 11. Roll-in pallet support
- 12. Double flanged pallet support
- 13. Drum/coil bed

- 14. Fork clearance bar
- 15. Skid channel
- 16. Wall tie
- 17. Drum cradle
- 18. Corner protector





Welded Selective Pallet Rack

Bolted Selective Pallet Rack

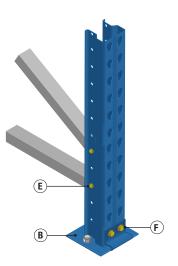


Selective Roll Formed Beams and Frames

BOLTED ROLL FORMED FRAMES

COMPONENTS

Bolted selective frames are available in a standard cataphoresis blue (RAL-5003) finish and adhere to RMI 2012 standards. Foot plates and bracing are bolted into place. In special cases, foot plates may be welded using a $\frac{1}{6}$ " (0.125") fillet weld. Please note that Interlake Mecalux Bolted and Welded frames have updated strutting patterns.

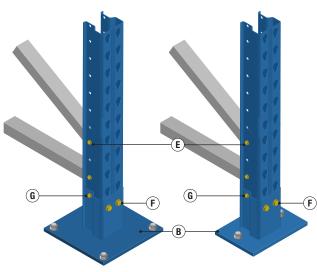


Heavy Foot Plate U

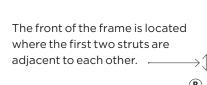
B. Foot Plate U (077/080, 3P, 100, 120 model) or Foot Plate J U and FJ U (3P, 100 and 120 model) or Foot Plate M U and FM U (3P, 100 and 120 model) or

A. Post (315, 314, 313, 312, 101, 102, 122, UA10)

- Foot Plate PP and PP 8X8 or Foot Plate UA10 / FUA10 (UA10 model).
- C. Horizontal Strut (U C456G, U C715G, U C915G or U C502G)
- D. Diagonal Strut (U C456G, U C715G, U C915G or U C502G)
- E. Bolts W $^5/_{6}$ x $2\,^3/_{6}$ " D931 G5 B TE1A (T0201564 315, 314 and 312) Bolts W $^5/_{6}$ x $3\,^7/_{6}$ " D931 G5 B TE1A (T0029094 101 and 102) Bolts W $^5/_{6}$ x $4\,^7/_{32}$ " D931 G5 B TE1A (T0029095 5122) Bolts W $^5/_{6}$ x $2\,^5/_{6}$ " D931 G5 B TE1A (T0029080 UA10)
- F. 2 Washer Cups Foot Plate TD U (T0043168) 2 Bolts W 3/4 x 1" D933 G5 B TE1A (T0029082)
- G. 1 Bolt W $^5/_6$ X 2 $^3/_4$ " D931 G5 B TE1A (T0029098 314 and 312) 1 Bolt W $^5/_6$ X 3 $^3/_4$ " D931 G5 B TE1A (T0203315 101 and 102) 1 Bolt W $^5/_6$ X 4 $^3/_4$ " D931 G5 B TE1A (T0203317 5122) 2 Bolts W $^5/_6$ X 3" D931 G5 B TE1A (T0208041 UA10) + 2 Bolts W $^3/_6$ X 3 $^3/_4$ " D931 G5 B TE1A (T0208042 UA10)



Heavy Foot Plate M U Heavy Foot Plate J U



(A)-

(**D**)

(C)



Product Support Guide

Selective Roll Formed Beams and Frames

PRODUCT CODE DESCRIPTION

Standard frames are manufactured in even 12" increments for height and 2" increments for depth. Custom options are available at 2" increments for height. For more details, contact your Interlake Mecalux representative.

- Standard depths: 36", 42" and 48".
- Available in a standard cataphoresis blue (RAL-5003) or green (RAL-6033) finish.
- Assembled frames available through "KI-FR" parts.
- Special frame sizes available upon request.

KI-FR.2.312 G BJ 24' X 42"

KI = Kit (Frame ships assembled, If 'KI' does not appear, frame Is shipped loose / knock down)

Frame
2022 Strut Pattern

Post width and frame model

313 = 3.03" wide 13 GA

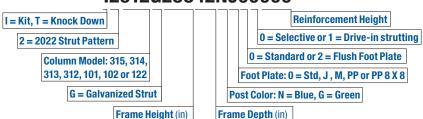
312 = 3.06" wide 12 GA 122 = 4.80" wide 12 GA

Frame Depth (in)
Frame Height (ft)
Foot Plate Model: J, M or PP

G = Galvanized Struts

Nothing = Painted Struts (same as post color)

12312G28842NJ00000



	Bolted Frame Capacities (lbs)											
	Model	2.315	2.3	314	2.3	2.313		312	2.101	2.102	2.122	UA10
	Gauge	15 GA (0.067")	14 GA (0.075")	13 GA (0.090")		12 GA (0.105")		13 GA	12 GA	12 GA	12 GA
	Height	5' - 16'	≤ 21'	> 21'	≤ 21'	> 21'	≤ 21'	> 21'	(0.090")	(0.105")	(0.105")	(0.105")
	36"	19,855	24,571	25,847	29,583	31,133	34,514	36,322	40,800	47,800	55,000	86,400
	42"	18,326	22,807	23,924	27,531	28,900	32,120	33,717	39,000	45,800	53,200	82,200
	48"	16,716	20,867	21,832	25,741	26,286	30,032	30,667	36,900	43,300	51,300	77,700
ā	54"	14,963	18,849	19,680	22,753	23,778	26,546	27,742	34,700	40,800	49,100	72,800
星	60"	13,310	16,849	17,563	20,288	21,166	23,670	24,694	32,400	38,100	46,800	67,700
Spar	66"	11,603	14,784	15,400	17,994	18,755	20,994	21,881	30,000	35,300	44,400	62,500
ted	72"	9,925	12,982	13,535	15,705	16,392	18,323	19,125	27,600	32,500	41,800	57,200
lodd	78"	8,666	11,156	11,571	13,584	14,104	15,849	16,455	25,200	29,700	39,200	52,000
nsu	84"	7,493	9,758	10,075	11,892	12,291	13,875	14,340	22,800	27,000	36,700	46,900
Maximum Unsupported Span (HbL)	90"	6,534	8,595	8,848	10,397	10,705	12,130	12,490	20,600	24,300	34,000	42,000
X.	96"	5,722	7,597	7,795	9,174	9,414	10,703	10,984	18,300	21,700	31,500	37,200
S	102"	5,134	6,761	6,918	8,240	8,435	9,614	9,841	16,300	19,300	28,900	33,100
	108"	4,619	6,086	6,216	7,368	7,527	8,596	8,782	14,600	17,200	26,500	29,600
	114"	4,100	5,496	5,601	6,562	6,690	7,656	7,805	13,100	15,500	24,000	26,600
	120"	3,732	4,989	5,074	5,979	6,087	6,976	7,102	11,900	14,000	21,800	24,000

HbL = Height between levels **NOTE:**

- Capacities are according to the most important RMI guidelines and ANSI MH16, 1 2012 specifications.; Steel strength: FY = 55 KSI.
- Capacities for static loads only, including product load plus dead load (dead load = 2% of product load).
- Capacities are only valid when used with Interlake Mecalux published beam sizes.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.
- Maximum unsupported height (Height between levels) is the maximum beam spacing or the distance between the floor and the top of the first beam (whichever is greater) assuming equally spaced levels.



Product Support GuideSelective Roll Formed Beams and Frames

BOLTED FRAMES - GENERAL INFORMATION

Bolted Frames for Selective Pallet Rack Dimensions							
	FR. 2.315 G	FR.2.314 G, FR.2.312 G, FR.2.313 G FR. 2.101 G, FR.2.102 G, FR.2.122 G, TD UA10	Standard Intervals				
Height minimum	60" (5')	48" (4')	Every 12" ***				
Height maximum	192" (16')	468" (39')	Every 12				
Depth minimum (standard)*	36" (3')	36" (3')	00 40 40 ****				
Depth maximum (standard)**	48" (4')	48" (4')	36", 42" and 48" ****				

^{*} Min. custom depth = 18", contact your Interlake Mecalux representative for more information.

	Bolted Frames With Standard Components (Selective Pallet Rack)									
Frame	Frame Family	Post	Post Familiy	Heavy Foot Plate	Hardware for Foot Plate Connection	Strut	Hardware For Strut To Post Connection			
FR.2.315 G	BU315G	TD U315	PU315TD	U077/080 T0052501 (galvanized)						
FR.2.314 G	B2314G	TD U314	PU314TD			U C456G	BOLTS W ⁵ /16 X 2 ³ /8" D931 G5 B TE1A			
FR.2.313 G	B2313G	TD U313	PU313TD	U3P T0200868 (blue)			(T0201564)			
FR.2.312 G	B2312G	TD U312	PU312TD							
FR.2.101 G	B2101GGC	TD U101	PU101TD	U100 T0029078 (blue)		(T0029082)	U C715G	BOLTS W ⁵ /16 X 3 ⁷ /16" D931 G5 B TE1A		
FR.2.102 G	B2102GGC	TD U102	PU102TD			0 07 100	(T0029094)			
FR.2.122 G	B2122GGC	TD U122	PU122TD	U120 T0029079 (blue)		U C915G	BOLTS W ⁵ / ₁₆ X 4 ⁷ / ₅₂ " D931 G5 B TE1A (T0029095)			
N/A	N/A	TD UA10	PUA10TD	UA10 T0206656 (blue) F UA10 T206657 (blue)	2 BOLTS W ⁵ / ₁₆ X 3" D931 G5 B TE1A (T0208041) + 2 BOLTS W ³ / ₈ X 4 ³ / ₄ " D931 G5 B TE1A (T0208042)	U 502 G	BOLTS W ⁵ /16 X 2 ⁵ /8" D931 G5 B TE1A (T0029080)			

^{**} Max. custom depth = 72", contact your Interlake Mecalux representative for more information.

^{****} Custom height intervals are available every 2", contact your Interlake Mecalux representative for more information.

**** Custom depth intervals are available every 1", contact your Interlake Mecalux representative for more information.

BOLTED POST PROFILES AND FRAMES

Post profiles are available in various sizes. Each profile has 7 to 9 bends, depending on the model. Post profiles have perforations every 2" on the face and the sides.

The tear drop perforations on the face are designed to secure beam placement, with the narrow section facing downwards, as shown in the drawing.

Side perforations are used for fitting struts and accessories, such as row spacers and column protectors, using 5/16" (0.3125") dia 5 bolts.

There are different models of uprig vary in dimensions and gauges.

· Available in a standard cataphor (RAL-5003).



Post TD U315

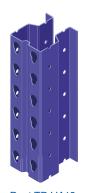
Α

Post Model



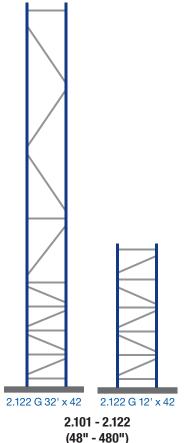
Post TD U314, U313, U312, U101, U102 & U122

C

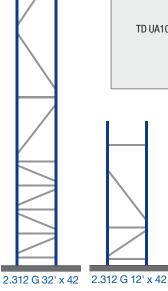


Post TD UA10

ameter grade					B
ights, which	TD U315	2.98"	2.56"	15 GA (0.067")	< } < < < < < < < < <
resis blue					C C
	TD U314	3"		14 GA (0.075")	В
	TD U313	3.03		13 GA (0.090")	
\vdash	TD U312	3.06"	2.71"	12 GA (0.105")	
	TD U101	3.97"	2.11	13 GA (0.090")	
	TD U102	4.01"		12 GA (0.105")	
	TD U122	4.8"		12 GA (0.105")	
	TD UA10	4.01	4.85	12 GA (0.105")	B

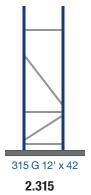


These frames will have a consistent strut pattern.



2.314 - 2.312 (48" - 480")

2.314, 2.313 and 2.312 Frames have 2 strut patterns, one used when frames are <21' and another for frames >21'



(60"- 192")

315 Frames are only available from 5' - 16'

BRACING DISTRIBUTION

Standard bracing distribution for bolted frames varies by model according to the required height of the frame; however, the following guidelines may be applied.

For more details, contact your Interlake Mecalux representative.

Interlake MECALUX

Product Support Guide

Selective Roll Formed Beams and Frames

STANDARD FOOT PLATES

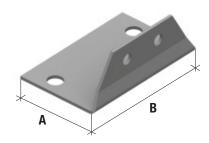
STANDARD FOOT PLATES

Frames are secured to the ground using foot plates that are bolted to the bottom of the posts. Foot plates are anchored to the floor using HILTI Anchor W $\frac{1}{2}$ X 5 $\frac{1}{2}$ " (U0074596).

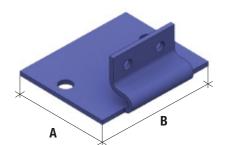
"J" and "M" foot plates are commonly used in seismic areas or in locations with less than desired floor structures.

If a different foot plate is used, the number of anchors will be determined by the calculation. Additional anchors provided by special request.

All foot plates come with holes that allow the frame to be bolted into the floor. Each hole is $\frac{5}{7}$ " (0.625") in diameter.



Foot Plate U 077/080



Foot Plate U3P / U100 / U122

	Bolted Foot Plates								
Foot Plate	Frame	Frame Family	Foot Plate Part Number	Finish	A	В	Gauge		
U 077/080	FR.2.315 G	BU315G	T0052501	Galvanized	3 ²⁵ / ₆₄ " (3.39")	5 ¹⁵ / ₆₄ " (5.23")	11 (0.119")		
	FR.2.314 G	BU314G	T0200868	Blue		5 ³ / ₃₂ " (5.09")			
U3P	FR.2.313 G	BU313G			4 ¹¹ /16"				
	FR.2.312 G	BU312G							
U100	FR.2.101 G	BU101GGC	T0029078	Blue	(4.68")	6 7/64"	6 (0.194")		
0100	FR.2.102 G	BU102GGC	10029076	Dille		(6.10")			
U122	FR.2.122 G	BU122GGC	T0029079	Blue		6 ⁵⁷ / ₆₄ " (6.59")			

Foot plates should be attached to the posts using:

- (2) Bolts W 3/4 X 1" D933 G5 B TE1A (T0029082) and
- (2) Washer Cup-Foot plate TD U (T0043168)

Product Support Guide

Selective Roll Formed Beams and Frames

STANDARD FOOT PLATE SHIMS

Shims are metal plates with the same dimensions as foot plates. They help to level out racks that are placed on irregular surfaces. There are different shims for each type of foot plate.

Two thicknesses are available to enable accurate leveling. When ordering shims the following guidelines should be kept in mind:

Gauge 11 (0.120")

2 x Frame quantity

1x Post quantity (if individual posts are quoted)

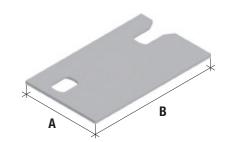
Gauge 18 (0.048")

1x Frame quantity

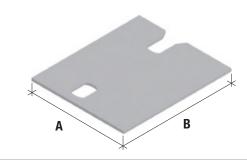
1x Post quantity (if individual posts are quoted)

Gauge 13 (0.090") are available upon request.

• All Shims are made in a standard galvanized finish.



Shim Model	A	В
U 077 / 080	3 9/64" (3.14")	5 15/64" (3.23")



Shim Model	A	В
U 3P		5 3/32"(5.09")
U 100	4 11/32" (4.34")	6 7/64" (6.10")
U 120		6 57/64"(6.89")

Standard Bolted Foot Plate Shims							
Shim	Frame	Part Number	Gauge	Quantity per Frame	Finish		
		T0053005	G11 (0.120")	X 2			
U 077 / 080	2.315 G	T0053003	G18 (0.048")	X 1	Galvanized		
		T0053004	G13 (0.090")	if requested X 1			
	2.314 G 2.313 G 2.312 G	T0200872	G11 (0.120")	X 2	Galvanized		
U 3P		T0200870	G18 (0.048")	X 1			
		T0200871	G13 (0.090")	if requested X 1			
		T0032355	G11 (0.120")	X 2			
U 100	2.101 G 2.102 G	T0032353	G18 (0.048")	X 1	Galvanized		
		T0032354	G13 (0.090")	if requested X 1			
		T0032358	G11 (0.120")	X 2			
U 120	2.122 G	T0032356	G18 (0.048")	X 1	Galvanized		
		T0032357	G13 (0.090")	if requested X 1			



Selective Roll Formed Beams and Frames

BOLTED HEAVY-DUTY FOOT PLATES

HEAVY-DUTY FOOT PLATES BJ AND BM

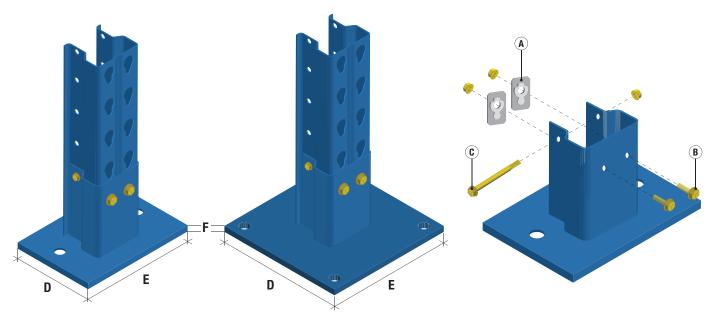
In special instances, bolted frames require heavy-duty foot plates. In those situations, "BJ" and "BM" foot plates and shims are used. Bolted oversized foot plates are available in a standard cataphoresis blue (RAL-5003) or green (RAL-6033) finish; the shims have a galvanized finish.

Contact your Interlake Mecalux representative for more information.

Heavy-duty foot plates hardware requirements:

- A. (2) Washer Cup TD U (T0043168)
- B. (2) Bolts W 3/8 x 1" D933 GF B TE1A (T0029082)
- C. (1) Bolt W ⁵/₁₆ x 2 ³/₄" D931 G5 B TE1A (T0029098) for 314 & 312;

 $3\frac{3}{4}$ " (T0203315) for 101 & 102 OR $4\frac{3}{4}$ " (T0203317) for 122



Heavy Foot Plate BJ U

Heavy Foot Plate BM U

	Heavy Foot Plate J U and M U Options							
Heavy Foot Plate	Frame	Frame Family	Foot Plate Part Number	D	E	F (Thickness)		
J U3P	FR.2.314 BJ G FR.2.313 BJ G FR.2.312 BJ G	BU314GJ BU313GJ BU312GJ	T0200874 (blue)		7.283"	0.394"		
J U100	FR.2.101 BJ G FR.2.102 BJ G	BU101GJ BU102GJ	T0200800 (blue)	5.118"	7.200			
J U120	FR.2.122 BJ G	BU122GJ	T0200801 (blue)		9"			
M U3P	FR.2.314 BM G FR.2.313 BM G FR.2.312 BM G	BU314GM BU313GM BU312GM	T0200876 (blue)					
M U100	FR.2.101 BM G FR.2.102 BM G	BU101GM BU102GM	T0200803 (blue)	7.874"	7.874"	0.394"		
M U120	FR.2.122 BM G	BU122GM	T0200804 (blue)					



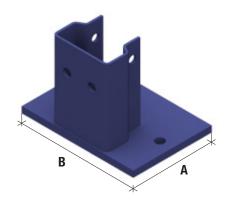
Selective Roll Formed Beams and Frames

FLUSH HEAVY-DUTY FOOT PLATES BJ F AND BM F

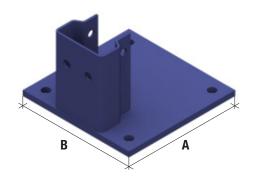
Heavy-duty F (flush) foot plates will only be used when the anchors cannot interfere with the aisle and/or cannot be placed out of the frame limits.

Heavy-duty foot plates hardware requirements:

- (2) Washer Cup TD U (T0043168)
- (2) Bolts W 3/8 x 1" D933 GF B TE1A (T0029082)
- (1) Bolt W $\frac{5}{16}$ x $2\frac{3}{4}$ " D931 G5 B TE1A (T0029098) for 314 & 312;
- $3\sqrt[3]{4}$ " (T0203315) for 101 & 102 OR $4\sqrt[3]{4}$ " (T0203317) for 122
- Available in a standard cataphoresis blue (RAL-5003) finish.
- The frame is mounted flush to the front of the foot plate.
- They will be quoted by components and only by request.



Heavy Foot Plate F J U



Heavy Foot Plate F M U

	Heavy Foot Plate F J U and F M U Options							
Heavy Foot Plate	Frame	Frame Family	Foot Plate Part Number	Α	В	Thickness		
F J U3P	FR.2.314 BJF G FR.2.313 BJF G FR.2.312 BJF G	BU314GJF BU313GJF BU312GJF	T0203269 (blue)		7.283"	0.394"		
F J U100	FR.2.101 BJF G FR.2.102 BJF G	BU101GJF BU102GJF	T0203277 (blue)	5.118"				
F J U120	FR.2.122 BJF G	BU122GJF	T0203281 (blue)		9"			
F M U3P	FR.2.314 BMF G FR.2.313 BMF G FR.2.312 BMF G	BU314GMF BU313GMF BU312GMF	T0203271 (blue color)					
F M U100	FR.2.101 BMF G FR.2.102 BMF G	BU101GMF BU102GMF	T0203279 (blue color) 7.874"		7.874"	0.394"		
F M U120	FR.2.122 BMF G	BU122GMF	T0203283 (blue color)					



Selective Roll Formed Beams and Frames

HEAVY-DUTY FOOT PLATE SHIMS (BJ, BM, BJ F AND BM F)

Heavy-duty foot plate shims will be the same dimensions as their corresponding foot plates.

Two thicknesses are available to enable accurate leveling.

When ordering shims the following guidelines should be kept in mind:

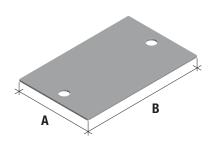
Gauge 11 (0.120")

2 x Frame quantity

1x Post quantity (if individual posts are quoted)

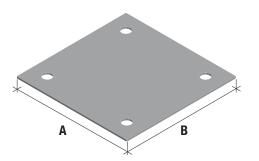
Gauge 16 (0.060")

• Only available upon request.



Shim for Heavy Foot Plate J U

Shim Model	A	В	
J U3P		7.283"	
J U100	5.118"	7.203	
J U120		9"	



Shim for Heavy Foot Plate M U

Α	В
7.874"	7.874"

Shim Options for Heavy Foot Plate BJ, BM, BJ F and BM F						
Foot Plate	Part Number	Α	В	Gauge		
J U3P - J U100	T0200807 T0200805	5.118"	7.283"	G11 (0.120") G16 (0.060")		
J U120	T0200808 T0200806	5.118"	9"	G11 (0.120") G16 (0.060")		
MU	T0200824 T0200823	7.874"	7.874"	G11 (0.120") G16 (0.060")		



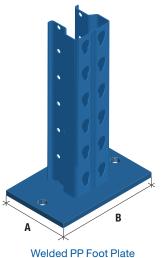
Selective Roll Formed Beams and Frames

HEAVY-DUTY FOOT PLATES PP

Based on seismic calculations, some installations may require the use of oversized welded foot plates to the frames.

The following descriptions are used for these types of frames:

- FR.2.314 G PP, FR.2.313 G PP, FR.2.312 G PP
- FR.2.101 G PP, FR.2.102 G PP
- FR.2.122 G PP



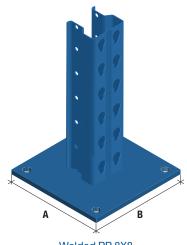
Welded PP Foot Plate Sizes						
Frame	Frame Family	Post Model	Post Family	Α	В	Thickness
FR.2.314 G PP	BU314GPP	TD U314 PP	PU314TDP			
FR.2.313 G PP	BU313GPP	TU U313 PP	PU313TDP			
FR.2.312 G PP	BU312GPP	TD U312 PP	PU312TDP	5.00"	7 ³ / ₄ " (7.75")	3/8"
FR.2.101 G PP	BU101GPP	TD U101 PP	UP101TDP	5.00	(7.73)	(0.375")
FR.2.102 G PP	BU102GPP	TD U102 PP	PU102TDP			
FR.2.122 G PP	BU122GPP	TD U122 PP	PU122TDP		9.00"	

HEAVY-DUTY FOOT PLATES PP 8X8

Additionally, based on seismic calculations, an 8" x 8" option is also available as a welded foot plate on the bolted frames.

The following descriptions are used for these types of frames:

- FR.2.314 G P8, FR.2.313 G P8, FR.2.312 G P8
- FR.2.101 G P8, FR.2.102 G P8
- FR.2.122 G P8



Welded PP 8X8

Welded PP 8X8 Foot Plate Size						
Frame	Frame Family	Post Model	Post Family	Α	В	Thickness
FR.2.314 G P8	B2314GP8	TD U314 PP 8X8	PU314TDP8			
FR.2.313 G P8	B2313GP8	TD U313 PP 8X8	PU313TDP8			
FR.2.312 G P8	B2312GP8	TD U312 PP 8X8	PU312TDP8	9.00"	0.00"	3/8"
FR.2.101 G P8	B2101GP8	TD U101 PP 8X8	UP101TDP8	8.00"	8.00"	(0.375")
FR.2.102 G P8	B2102GP8	TD U102 PP 8X8	PU102TDP8			
FR.2.122 G P8	B2122GP8	TD U122 PP 8X8	PU122TDP8			

Product Support Guide

Selective Roll Formed Beams and Frames

HEAVY-DUTY (PP) FOOT PLATE SHIMS

Heavy-duty foot plate shims will be the same dimensions as their corresponding foot plates.

Two thicknesses are available to enable accurate leveling.

When ordering shims the following guidelines should be kept in mind:

Gauge 11 (0.120")

2 x frame quantity

1x post quantity

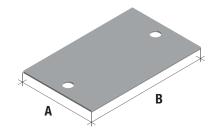
(if individual posts are quoted)

Gauge 16 (0.060")

• Only available upon request.

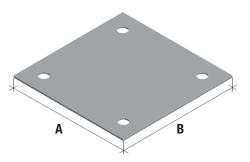
NOTE These shims are only to be used with Welded PP and PP 8X8 Foot Plates (page 16)

Shim Options for Heavy Foot Plate M U & J U						
Foot Plate	Part Number	A	В	Gauge		
2.314PP, 2.313PP, 2.312PP, 2.101PP & 2.102PP	U0075048 U0075033	5"	7 ³ / ₄ " (7.75")	G11 (0.120") G16 (0.060")		
2.122PP	T0037435 T0037442	5"	9"	G11 (0.120") G16 (0.060")		
2PP 8X8	U0075052 U0075036	8"	8"	G11 (0.120") G16 (0.060")		



Shim for Heavy Duty Welded Foot Plate PP

Shim Model	Α	В
TD U 3 PP - TD U 100 PP (IHASB GA11 / IHASA GA16)	5"	7 ³ / ₄ " (7.75")
TD U 120 PP	-	9"

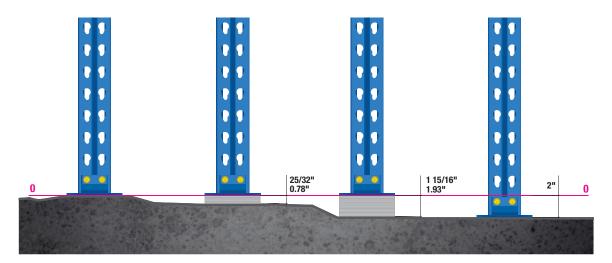


Shim for Heavy Duty Welded Foot Plate PP8X8

Α	В
8"	8"

SHIMMING GUIDELINES

In installations with very uneven floors, the maximum shim height should not exceed 115/16" (1.93"). If the unevenness of the floor exceeds this dimension, the post is to be repositioned vertically using a hole punch as a reference for the distance (± 2 "). Note that shimming may require longer anchors to maintain minimum embedment.





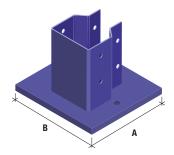
Selective Roll Formed Beams and Frames

HEAVY-DUTY FOOT PLATES AND SHIMS UA10 AND F UA10

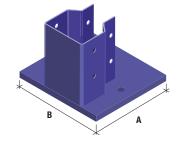
These foot plates are designed to work exclusively with POST TD UA10. Frames UA10 have no standard codes, they must be ordered as individual components.

Heavy-duty foot plates UA10 AND F UA10 hardware requirements:

- (2) Bolts W 5/16 x 3" D931 G5 B TE1A (T0208041) AND
- (2) Bolts W 3/8 x 4 3/4" D931 G5 B TE1A (T0208042)
- Available in a standard cataphoresis blue (RAL-5003) finish.



Heavy-Duty Foot Plate UA10



Flush Heavy-Duty Foot Plate F UA10

	Heavy Foot Plate UA10 and F UA10 Options					
Heavy Foot Plate	Frame	Foot Plate Part Number	A	В	Thickness	
UA10	ED HA10	T0203269 (blue)	7.87"	8.54"	0.591"	
F UA10	FR.UA10	T0203277 (blue)	7.07	0.54	0.591	

HEAVY-DUTY FOOT PLATE SHIMS (UA10 AND F UA10)

Heavy-duty foot plate UA10 shims are designed to work exclusively with UA10 and F UA10 foot plates. Two thicknesses are available to enable accurate leveling.

When ordering shims the following guidelines should be kept in mind:

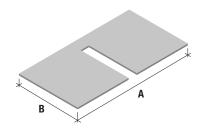
Gauge 11 (0.120")

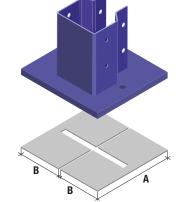
4 x Frame quantity

2 x Post quantity (if individual posts are quoted)

Gauge 16 (0.060")

• Only available upon request.





Shim Options for Heavy Foot Plate BJ, BM, BJ F and BM F					
Foot Plate	Part Number Gauge		Α	В	
UA10 or	T0207926	G11 (0.120")	7.874"	4.173"	
F UA10	T0207925	G16 (0.060")	7.074	4.173	

Interlake MECALUX

Product Support Guide

Selective Roll Formed Beams and Frames

FRAME UA10 ROW SPACER: IK501

This row spacer is used when connecting UA10 columns in a face-to-face arrangement, the hardware below is supplied with the IK501 Row Spacer.

- A. (1) Row Spacer IK501.
- B. (4) Bolt 3%-16 x 5%" FLNG G5 Z (Part number U0074648).
- C. (4) Locknut Flange 3/4-16 Z (Part number U0074687).

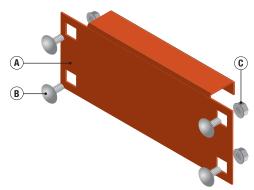
Row Spacer 501 Length should be $\frac{1}{4}$ " (0.25") shorter than the required distance between UA10 posts (L).

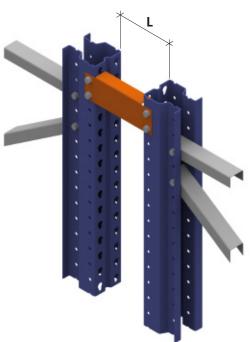
e.g. Required post separation is 6":

6" - 0.25" = 5.75"

Part Number: UM010842 (VL-ROW SPAC.IK501 5 3/4")

Custom lengths must be ordered as VL's up to 60" using Family Code IKCJA501 (hardware will be included) or Family Code IKIA501 (row spacer without hardware).





Model 501 L = Space between UA10 posts

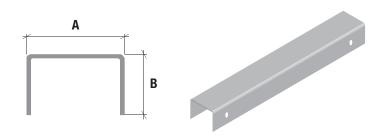


Selective Roll Formed Beams and Frames

STRUTS

Bolted struts are "C" shaped profiles that are bolted to the posts of a frame. When struts are placed diagonally, they are referred to as diagonals. When placed horizontally, they are referred to as horizontals.

• Available in a standard galvanized or blue (RAL-5003) finish.



	Bolted Struts								
Model	Strut Family	Strut Family Frame Model Gauge Hardware		Α	В				
C456G	DBUC456G	2.315 G, 2.314 G, 2.313 G, 2.312 G		(2) BOLTS 5/16 x 2 3/8" D931 G5 B TE1A (T0201564)	1 25/32" (1.78")				
C715G	DBUC715G	2.101 G, 2.102 G	16 (0.06")	(2) BOLTS W5/16 x 3 7/16" D931 G5 B TE1A (T0029094)	2 3/4" (2.75")	1 3/8"			
C915G	DBUC915G	2.122 G	10 (0.00)	(2) BOLTS W5/16 x 4 7/32" D931 G5 B TE1A (T0029095)	3 17/32" (3.53")	(1.375")			
C502G	DBUC502G	A10		(2) BOLTS W5/16 x 2 5/8" D931 G5 B TE1A (T0029080)	1 63/64" (1.97")				

ANCHORS

Every column in a selective pallet rack installation should be anchored to the floor with at least one $\frac{1}{2}$ " diameter expansion anchor that has a minimum embedment of $2\frac{1}{2}$ ".

Some installations require additional heavier anchorage due to seismic or wind load considerations.

The standard anchor provided for roll formed selective pallet rack installations is HILTI Anchor $\frac{1}{2}$ -13 X 5 $\frac{1}{2}$ " (U0074596).

WASHER CUP - FOOT PLATE TD U (T0043168)

Rectangular plates of 1 $^9/_{16}''$ x $^{15}/_{16}''$ x $^1/_{6}''$ thick (1.56" x 0.93" x 0.125") with a through hole.

They help prevent the bolt, which fixes the foot plate to the post, from moving.

Standard foot plates should be attached to the posts using:

- A. (2) Washer Cup Foot Plate TD U (T0043168).
- B. (2) Bolts W 3/8 X 1" D933 G5 B TE1A (T0029082).
- C. (2) Washer Cup-Foot plate TD U (T0043168).
- Available in a galvanized finish.



Product Support GuideSelective Roll Formed Beams and Frames

BOLTED REINFORCED FRAMES

Reinforced frames increase their capacity when both columns are reinforced up to just above certain beam levels (usually required in seismic areas).

This first-of-its-kind, entirely bolted solution eliminates the need for welding on reinforced posts by using bolted reinforcement brackets.

- Each post can only be reinforced with the same model of post.
- The required distance between each bolted reinforcement bracket is 24".
- The Top Reinforcement Bracket (4 holes) should only be used at the top of the reinforcement.
- The height of the reinforced post should be rounded up to the next 12" increment (e.g. 116" post rounds up to 120").
- A bracket that interferes with a beam level should be moved, and the rest of the brackets should be adjusted to maintain a maximum spacing of 24".
- The foot plate will have to be a bolted seismic R2T model.
- In some cases, it may be recommended to use a welded reinforced option, this
 will require the backer and foot-plates to be welded, but the strutting will still be
 bolted to the frame.



Selective Roll Formed Beams and Frames

BOLTED REINFORCEMENT COMPONENTS

R2T SEISMIC FOOT PLATE

Required when reinforcing a bolted frame. They are placed on the lower ends of the uprights to facilititate the frame-to-floor connection.

R2T Seismic Foot Plate						
Reinforce Post Model	Part Number	Α	В	Hardware		
TD U3P	U0200731			(4) Bolts W ⁵ / ₁₆ x 3 ³ / ₄ " D931 G5 B TE1A (T0203315)		
TD U100	U0200668	7.87"	7.87"	(4) Bolts W ⁵ / ₁₆ x 4 ³ / ₄ " D931 G5 B TE1A (T0203317)		
TD U120	U0200669			(4) Bolts W ⁵ / ₁₆ x 5 ⁵ / ₈ " D931 G5 B TE1A (T0203318)		

Shims for Heavy Foot Plate R2T				
Foot Plate Part Number		Α	В	Gauge
R2T	T0200824 T0200823	7.87"	7.87"	G11 (0.120") G16 (0.060")





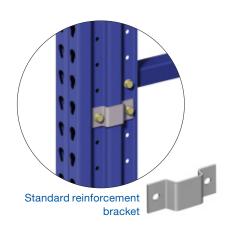
STANDARD REINFORCEMENT BRACKET (U0201013)

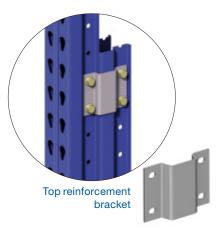
Galvanized metal sections with two drill holes; will be placed every 24" on the reinforced post.

TOP REINFORCEMENT BRACKET (U0201014)

Galvanized metal sections with four drill holes; will be placed at the top of the reinforced post.

STANDARD & TOP REINFORCEMENT BRACKET					
Reinforced Post Model	Part Number	Description	Hardware		
TD U3P		Standard	(2) Bolts W ⁵ /16 x 2 ⁵ /8" D931 G5 B TE1A (T0029080)		
TD U100	U0201013	Reinforcement	(2) Bolts W ⁵ / ₁₆ x 3 ³ / ₄ " D931 G5 B TE1A (T0203315)		
TD U120		Bracket	(2) Bolts W 5/16 x 4 1/2" D931 G5 B TE1A (T0203316)		
TD U3P		Тор	(4) Bolts W ⁵ /16 x 2 ⁵ /8" D931 G5 B TE1A (T0029080)		
TD U100	U0201014	Reinforcement	J0201014 Reinforcement	(4) Bolts W ⁵ / ₁₆ x 3 ³ / ₄ " D931 G5 B TE1A (T0203315)	
TD U120		Bracket	(4) Bolts W 5/16 x 4 1/2" D931 G5 B TE1A (T0203316)		

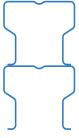




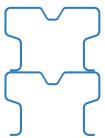
Product Support Guide

Selective Roll Formed Beams and Frames

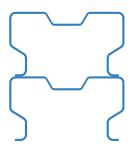
BOLTED REINFORCED FRAME CAPACITIES



314 + 314 312 + 312



101 + 101 102 + 102



122	+	1	2	2
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	Reinforced Bolted Frame Capacities (lbs)*							
Model 314 + 314		+ 314	312 + 312		101 + 101	102 + 102	122 + 122	
	Gauge	14 GA (0.075")	12 GA (0.105")	12 CA (0.000")	12 CA (0.105")	12 CA (0.105")
ı	Height	≤ 21'	>21'	≤ 21'	>21'	13 GA (0.090")	12 GA (0.105")	12 GA (0.105")
	36"	49,140	51,690	69,020	72,640	81,900	95,600	109,800
	42"	45,610	47,840	64,240	67,430	78,300	91,300	106,400
	48"	41,730	43,660	60,060	61,330	74,200	86,600	102,500
	54"	37,690	39,360	53,090	55,480	69,900	81,500	98,200
lbL)	60"	33,690	35,120	47,340	49,380	65,200	76,100	93,600
Maximum Unsupported Span (HbL)	66"	29,560	30,800	41,980	43,760	60,400	70,700	88,700
ted Sp	72"	25,960	27,070	36,640	38,250	55,600	65,100	83,700
nbbor	78"	22,310	23,140	31,690	32,900	50,800	59,500	78,500
ı Unsı	84"	19,510	20,150	27,750	28,680	46,000	54,000	73,300
imum	90"	17,190	17,690	24,260	24,970	41,500	48,600	68,100
Max	96"	15,190	15,590	21,400	21,960	36,900	43,400	62,900
	102"	13,520	13,830	19,220	19,680	32,800	38,600	57,800
	108"	12,170	12,430	17,190	17,560	29,300	34,500	52,900
	114"	10,990	11,200	15,310	15,600	26,400	31,100	48,100
	120"	9,970	10,140	13,950	14,200	23,800	28,000	43,500

HbL = Height between levels

- Capacities are according to the most important RMI guidelines and ANSI MH16, 1 2012 specifications.; Steel strength: FY = 55 KSI.
- Capacities for static loads only, including product load plus dead load (dead load = 2% of product load).
- Capacities are only valid when used with Interlake Mecalux published beam sizes.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.
- Maximum unsupported height (Height between levels) is the maximum beam spacing or the distance between the floor and the top of the first beam (whichever is greater) assuming equally spaced levels.



Selective Roll Formed Beams and Frames

SPLICING

FRAME SPLICES: U96 TD

If it is necessary to increase the frame height, another frame must be spliced to the existing frame using a frame splice.

These frame splices can be used with the following bolted post models: U314, U313, U312, U101, U102 or U122 and are $13^{25}/_{32}$ " (13.78") long by $\frac{1}{8}$ " (0.125") thick.

- 315 frames are not designed to be spliced.
- The position of the last horizontal bracing on the bottom frame, and the first one of the top frame, should be adjusted in order to ensure that they do not interfere with the splicing area.
- The minimum height of the bottom frame in a splice should be 14'.
- There should be at least two beam levels up to the splice.
- A beam level cannot be placed in the splice section.
- The distance between the splice to the top part of the next beam level (16" or 18") depends on the type of beam.
- Available in a galvanized finish

REQUIRED PARTS

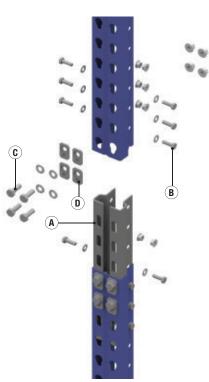
The splice set for a single bolted post (T0039687) includes:

- A. (2) Piece Splice Frame U96 (T0032373), which is bolted to the inside of the post
- B. (14) ⁵/₁₆" diameter x ³/₄" D933 G5 B T.2A Bolts (T0032927)
- C. (8) 3/4" diameter x 3/4" D933 G5 B TE1A Bolts (T0032935)
- D. (8) Washers Cup-Footplate TD U (T0043168)

The splice set for a bolted frame (T0039905) includes:

- A. (4) Piece Splice Frame (T0032373), which is bolted to the inside of the posts
- B. (28) 5/16" diameter x 3/4" D933 G5 B T.2A Bolts (T0032927)
- C. (16) 3/4" diameter x 3/4" D933 G5 B TE1A Bolts (T0032935)
- D. (16) Washers Cup-Footplate TD U (T0043168)







Selective Roll Formed Beams and Frames

ROW SPACERS AND WALL TIES

OVERVIEW

Rack stability can be increased by adding row spacers and/or wall ties, depending on the height and depth of the rack, the type of walls in the building and the location of the installation.

ROW SPACERS

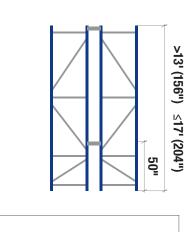
Row spacers are used to join racks together back to back. This adds rigidity to the system and provides even spacing between racks. Choosing the correct row spacer is based entirely on the frames in the system. Row spacers come with a standard galvanized finish.

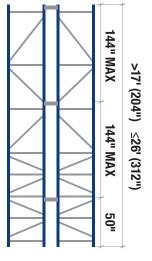
Row Spacer Placement and Quantity Guide				
Frame Height	Row Spacer Quantity			
≤ 13'	1			
>13' ≤ 17'	2			
>17' ≤ 26'	3			
> 26'	4+			

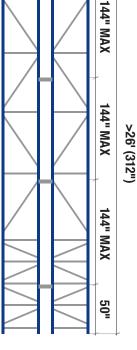
ROW SPACER DISTRIBUTION

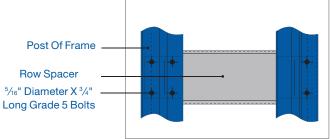
The following are recommendations for the placement of row spacers: In all cases, care must be taken to avoid interference with beams, struts or any other installation components.

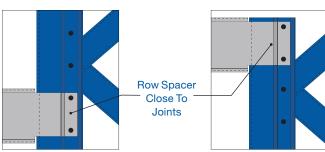
- •Intermediate row spacers should be located close to strut connections and should maintain equal distances between spacers, with no more than 144" between them.
- •The top row spacer should be installed next to the highest horizontal strut.
- •The bottom row spacer must be installed no higher than 50" from the floor.











Selective Roll Formed Beams and Frames

BOLTED FRAME ROW SPACERS

ROW SPACER: U96

This part is designed to be attached securely to the posts of a frame or to a wall tie. It is made with 13 gauge steel $(\frac{3}{42})$ or 0.09" thick).

The row spacers are bolted to the post using the side holes in the post, the same holes that are used for the bracing of the frame. For this process, (4) $\frac{5}{6}$ dia. \times $\frac{3}{4}$ long grade 5 bolts (T0032927) are required.

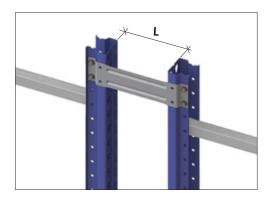
• Available in a standard galvanized finish.

ROW SPACER: U96 SETS

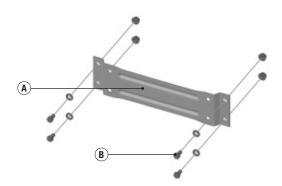
In order to facilitate the ordering process, row spacer U96 sets have been created. These sets include the components below. Row spacer sets are available through the "St. Row Spacer" part.

- A. (1) U96 Row Spacer
- B. (4) W ⁵/₁₆ x ³/₄" D933 G5 B TE1A Bolts (T0032927)

	Row Spacer U96 Sets						
Length	Set Number	Length	Set Number	Length	Set Number		
4"	T0047971	10"	T0047974	16"	T0047977		
6"	T0047972	12"	T0047975	Sets include connection hardward for Standard Bolted Frames			
8"	T0047973	14"	T0047976				



L = Row Spacer Length



LOOSE ROW SPACER: U96

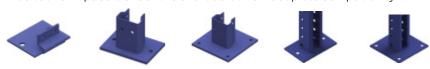
In instances where frames are reinforced, a loose row spacer should be quoted, in addition to the corresponding through bolts based on the frame model where the row spacer will be used.

	Loose Row Spacer U96 Standard Lengths*					
Length	Part Number	Length	Part Number	Length	Part Number	
*4"	T0032359	10"	T0032362	16"	T0032365	
6"	T0032360	12"	T0032363	Loose Row Spacers are used when quoting Reinforced Frame		
8"	T0032361	14"	T0032364			

	Hardware for Row Spacers on Reinforced Frames							
Column	Qty.	Qty. Bolt Description Part Number						
U3P	4	BOLT W 5/16 X 2 5/8" D931 G5 B TE1A	T0029080					
U100	4	BOLT W ⁵ / ₁₆ X 3 ³ / ₄ " D931 G5 B TE1A	T0203315					
U120	4	BOLT W ⁵ / ₁₆ X 4 ¹ / ₂ " D931 G5 B TE1A	T0203316					

*Other lengths must be ordered as VL's code up through 40" using Family Code UNIBASU1 (hardware must be added separately). For UA10 Posts use Row Spacer IK501 (see page 19).

*Note: When using 2'' - 4'' bolted row spacers check the chart below for foot plate compatibility.



Foot Plate	U	BJ U	вм и	PP	PP 8 X 8
Row Spacer U96 2"	×	×	×	×	×
Row Spacer U96 4"	✓	✓	×	✓	×

Interlake MECALUX

Product Support Guide

Selective Roll Formed Beams and Frames

BOLTED FRAME ROW SPACERS

ROW SPACER: U96

This part is designed to be attached securely to the posts of a frame or to a wall tie. It is made with 13 gauge steel $(\frac{3}{12})^n$ or 0.09" thick).

The row spacers are bolted to the post using the side holes in the post, the same holes that are used for the bracing of the frame. For this process, (4) $\frac{5}{6}$ dia. \times $\frac{3}{4}$ long grade 5 bolts (T0032927) are required.

• Available in a standard galvanized finish.

ROW SPACER: U96 SETS

In order to facilitate the ordering process, row spacer U96 sets have been created. These sets include the components below. Row spacer sets are available through the "St. Row Spacer" part.

(1) U96 Row Spacer

(4) W5/16 x 3/4" D933 G5 B TE1A Bolts (T0032927)

	Row Spacer U96 Sets					
Length	Set Number	Length	Set Number	Length	Set Number	
2"	T0069492	24"	T0047980	36"	T0047983	
18"	T0047978	28"	T0047981	40"	T0047984	
20"	T0047979	32"	T0047982			

L

L = Row Spacer Length



LOOSE ROW SPACER: U96

In instances where frames are reinforced, a loose row spacer should be quoted, in addition to the corresponding through bolts based on the frame model where the row spacer will be used.

	Loose Row Spacer U96 Standard Lengths*						
Leng	th	Part Number	Length	Part Number	Length	Part Number	
*2"		T0056465	24"	T0032368	36"	T0032371	
18'		T0032366	28"	T0032369	40"	T0032372	
20'	1	T0032367	32"	T0032370		Loose Row Spacers are used when quoting Reinforced Frames	

	Hardware for Row Spacers on Reinforced Frames						
Column	Qty.	Bolt Description Part Num					
U3P	4	BOLT W 5/16 X 2 5/8" D931 G5 B TE1A	T0029080				
U100	4	BOLT W 5/16 X 3 3/4" D931 G5 B TE1A	T0203315				
U120	4	BOLT W 5/16 X 4 1/2" D931 G5 B TE1A	T0203316				

*Other lengths must be ordered as VL's code up through 40" using Family Code UNIBASU1 (hardware must be added separately). For UA10 Posts use Row Spacer IK501 (see page 19).

 * Note: When using 2" - 4" bolted row spacers check the chart below for foot plate compatibility.



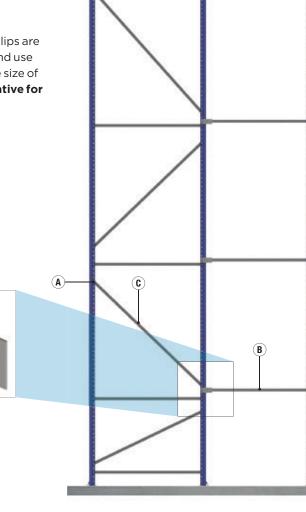
Foot Plate	U	BJU	вм и	PP	PP 8 X 8
Row Spacer U96 2"	×	×	×	×	×
Row Spacer U96 4"	✓	✓	×	✓	×

Selective Roll Formed Beams and Frames

FIXING FRAME CLIPS

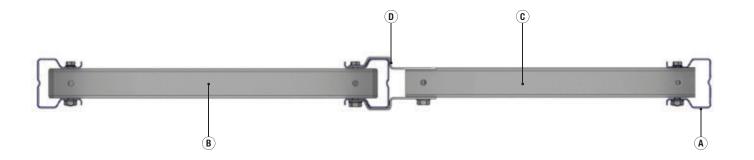
FRAME FRONT BRACKET U96 T0032409

In instances where frames are more than 40" apart, fixing frame clips are utilized to tie frames together. These clips bolt onto the column and use a strut that is bolted in place. The size of the frame determines the size of the strut that is used. **Contact your Interlake Mecalux representative for more information.**



- A. Additional Post
- B. Frames
- C. Diagonals
- D. U96 Frame Front Brackets

The additional post should be joined to the frames using sets of 1 diagonal and 2 U96 Frame Front Brackets.





Selective Roll Formed Beams and Frames

WALL TIES

WALL TIE ADAPTER: U96

This "L" shaped component allows the rack to be attached to a wall of a warehouse or storage facility. This type of wall tie should be used with bolted frames. To tie the rack to the wall, a U96 wall tie must be used in conjunction with a U96 row spacer. It is made with 13 gauge $(\sqrt[3]{32}" \text{ or } 0.09") \text{ steel.}$

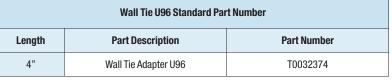
The single hole on the end ties the frame to the wall using a ½" diameter anchor. Two slots on the other side attach to the U96 row spacer using (2) $\frac{5}{16}$ " dia. x $\frac{3}{4}$ " grade 5 bolts. The row spacer should be sized to be 4" short of the wall to accommodate the wall tie adapter.

For wall tie lengths greater than 2", you will need a wall tie plus a row spacer.

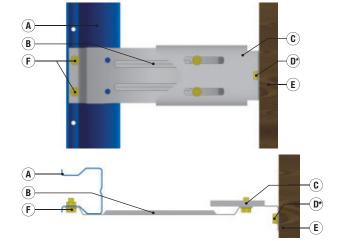
For example: For a 12" wall tie, you will need 1 wall tie plus an 8" row spacer (with hardware).

- Available in a standard galvanized finish.
- Due to uncertainty in wall structure, wall anchors are not included.

Wall Tie U96 Standard Part Number					
Length	Part Description	Part Number			
4"	Wall Tie Adapter U96	T0032374			







- A. Frame Post
- B. Row Spacer U96 (from 2"-40" length)
- C. Wall Tie (adjustable: $2^{17}/_{32}$ " $3^{5}/_{8}$ ")
- D. Customer Provided Anchor*
- F. W ⁵/₁₆" x ³/₄" D933 G5 B T.2A Bolt (T0032926)
- * Wall anchors are not included.



Selective Roll Formed Beams and Frames

POST PROTECTORS

BOLT ON POST PROTECTOR SETS

Bolt on post protectors are used to prevent damage to the posts that are facing an aisle. They offer protection in a variety of heights, as these protectors are not anchored to the floor, but rather bolted directly to the post of a frame.

Bolt on post protectors protrude $2\,\%_{22}$ " from the face of the post toward the aisle. Vertical holes allow the protectors to be bolted to a post, using $\%_6$ " diameter x $1\,\%_2$ " long bolts (T0034223). The number of bolts needed depends on the length of the protector. There are three sets:

All column protector sets come with 5/16" diameter x 11/2" D603 G2 BT 1A Bolts (T0034223).

The folded metal "V" shape plates are 11 gauge ($\frac{1}{8}$ " or 0.125" thick) and can be 12", 24", 36", 48" and 60" long.

• Available in a standard blue (RAL-5003) finish.

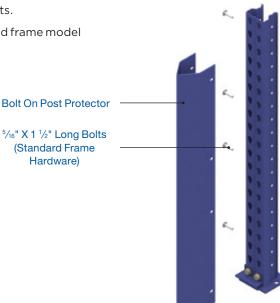
Bolt On Post Protector Sets						
Bolt On Post Protector	Set Number	Length	Frame	A	В	
3P	T0203325	36"	2.315, 2.314, 2.313 & 2.312	2.64"	3.14"	
U100	T0034225	60"	2.101 & 2.102	2.62"	4.34"	
U120	T0034226	48"	2.122	2.62"	5.09"	



For standard frame connections, the bolt on post protector should be attached to the post as shown in the diagram, using $\frac{5}{16}$ " diameter x $1\frac{1}{2}$ " long bolts.

For reinforced frames, use a through bolt compatible with the bolted frame model (see page 29).

Bolt On Protector - Bolt Requirements				
Length of Protector Number of Bolts Standard Frame		Number of Bolts Reinforced Frame		
12"	4	2		
24"	4	2		
36"	6	3		
48"	8	4		
60"	10	5		



Product Support GuideSelective Roll Formed Beams and Frames

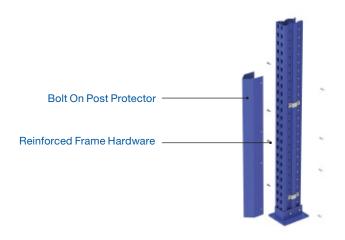
POST PROTECTORS

LOOSE BOLT ON POST PROTECTORS

Since only 3 available sets for bolt on post protectors are available, in order to quote other lengths or if they are to be used on reinforced frames, use the chart below in order to add the loose column protector part plus the corresponding number of bolts based on whether the connection frame is standard or reinforced.

	Loose Bolt On Post Protector					
Bolt On Post Protector	Part Number	Length	Standard Frame Hardware	Standard Hardware Quantity	Reinforced Frame Hardware	Reinforced Hardware Quantity
	T0203320	12"		4		2
3P	T0203321	24"		4		2
(2.315, 2.314, 2.313 & 2.312) *T0203323	*T0203322	36"	T0034223	6	T0203315	3
	48"		8		4	
	T0203324	60"		10		5
	T0032383	12"		4		2
	T0032384	24"		4		2
U100 (2.101 & 2.102)	T0032385	36"	T0034223	6	T0203317	3
	T0032386	48"		8		4
	* T0032387	60"		10		5
	T0032388	12"		4		2
	T0032389	24"		4		2
U120 (2.122)	T0032390	36"	T0034223	6	T0203318	3
, ,	* T0032391	48"		8		4
	T0032392	60"		10		5

^{*} Bolt on Post Protector Sets are available only for un-reinforced Standard Frames, see page 28.



Product Support Guide

Selective Roll Formed Beams and Frames

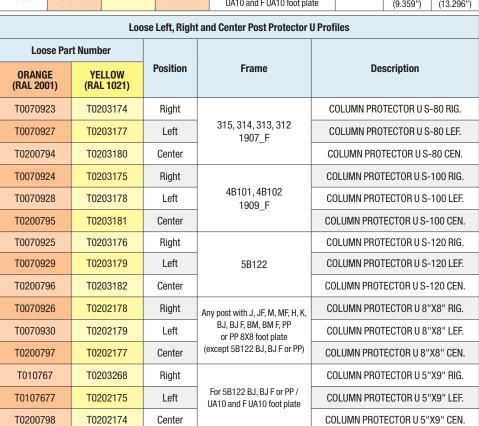
FLOOR MOUNTED POST PROTECTOR U

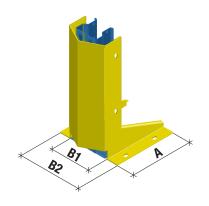
This floor mounted protector is anchored to the floor to protect the lower part of a single post.

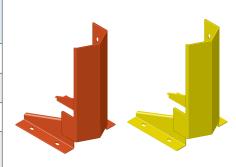
Offered in gauge 3 ($\frac{1}{4}$ " or 0.25" thick) steel, these protectors are 16" high and have four holes in the base that allow them to be anchored to the floor. They also have additional side holes on each side of the protector that can be used to bolt a 4" C channel to protect the end of an aisle.

- Available in yellow (RAL-1021) or orange (RAL-2001) finish.
- Anchor with (4) 1/2" diameter x 4 1/4" bolts (T0034139).

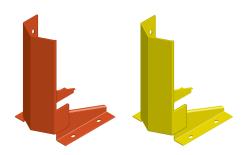
	Post Protector U Profiles and Sets						
Doot	Loose Part Number		Cat David	I Doub		Cina D1	Ci DO
Post Protector	ORANGE (RAL 2001)	YELLOW (RAL 1021)	Set Part Number	Frame	Size A	Size B1 (inside)	Size B2 (outside)
S-80	T0034147	T0200839	T0034150	315, 314, 313, 312		5 35/64"	9 31/64"
3-00	10034147	10200039	10034130	1907_F		(5.546")	(9.484")
S-100	T0034148	T0200840	T0034152	4B101, 4B102		6 11/32"	10 9/32"
3-100	10034140	10200040	10034132	1909_F		(6.343")	(10.281")
S-120	T0034149	T0200841	T0034153	5B122	9 ²⁷ / ₃₂ " (9.843")	7 ¹³ / ₆₄ " (7.203")	11 ⁹ / ₆₄ " (11.140")
2 1/ 2	T 00 T 0000	T00004T0	Any post with J, JF, M, MF, H, K,			8 ²³ /64"	12 ¹⁹ /64"
8 X 8	T0070083	T0202176	T0070084	BJ, BJ F, BM, BM F, PP or PP 8X8 (except 5B122 BJ, BJ F or PP)		(8.359")	(12.296")
5 X 9	T0107675	T0202173	T0107678	For 5B122 BJ, BJ F or PP / UA10 and F UA10 foot plate		9 ²³ / ₆₄ " (9.359")	13 ¹⁹ / ₆₄ " (13.296")







Right Protector



Left Protector



Center Protector

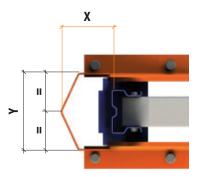


Selective Roll Formed Beams and Frames

FLOOR MOUNTED POST PROTECTOR U

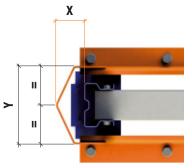
The charts below show the recommended distances that the frame should have from the standard floor mounted column protector "U" and "Left / Right" versions.





Column protectur U-S				
Post	Post Protector	Х	Y	
315, 314, 313 & 312	S-80		6 5/16 (6.31")	
4101, 4102	S-100		7 3/32 (7.09")	
5122	S-120	5 ⁵ /16" (5.31")	7 15/16" (7.93")	
Any Size	8 X 8	(0.01)	9 3/32" (9.09")	
Any Size	5 X 9		10 ½" (10.125")	





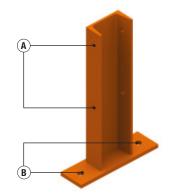
Column p	rotectur U-S_	Right a	nd Left
Post	Post Protector	х	Υ
315, 314, 313 & 312	S-80		6 5/16 (6.31")
4101, 4102	S-100		7 3/32 (7.09")
5122	S-120	2 ⁵ / ₁₆ " (2.31")	7 15/16" (7.93")
Any Size	8 X 8	(2.01)	9 3/32" (9.09")
Any Size	5 X 9		10 1/8" (10.125")

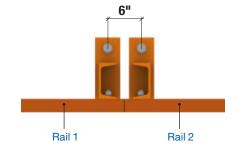
PROTECTORS FOOT INTER.455 - U0208281

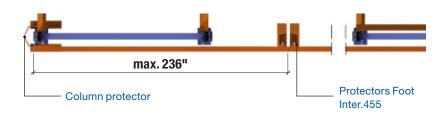
This floor mounted protector is anchored to the floor between the depth of the frames; allows the creation of End of Aisle protectors longer than 236".

These protectors are 15" high and have two holes in the base that allow them to be anchored to the floor. Profiles are C4" \times 5.4, welded to a 9.5" \times 3" \times 0.375" foot plate.

- Available in orange finish.
- A. Rail connection requires (1 or 2) ½" diameter x 1 ¾6" bolt (T0032936) these bolts are included in End of Aisle Rail Sets.
- B. Anchored with (2) ½" diameter x 4 ¼" anchor bolts (T0034139) Not included.











Selective Roll Formed Beams and Frames

END OF AISLE PROTECTOR

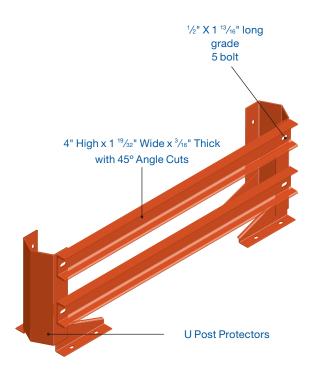
The end aisle protector features (2) floor mounted post protectors tied together with a 4" high x $1^{19}/_{32}$ " wide x $3^{16}/_{10}$ " thick channel rail. The rail ends are cut to a 45° angle to ensure aisle clearances.

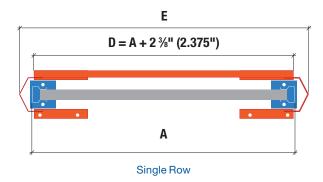
It is bolted into the frame by (2) $\frac{1}{2}$ " diameter x 1 $\frac{13}{16}$ " long grade 5 bolts and anchored to the floor with (4) $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " long anchor bolts U MSA (T0034139).

- Column protector to be ordered separately.
- Longer length protectors require a custom design.
- Available in a standard orange (RAL-2001) or yellow (RAL-1021) finish.

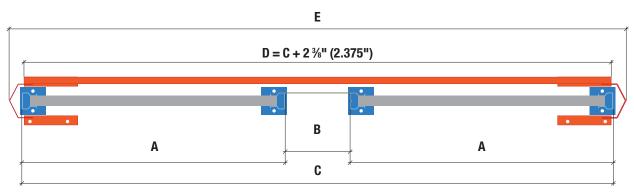
END OF AISLE PROTECTOR RAIL LENGTH CALCULATIONS

The length of the 4" rail will depend on the depth of the frame and length of the row spacers. To get the total length of the 4" rail, always add $2\frac{3}{8}"$ (2.375") to the length of the protected area.





- A. Depth of Frame
- B. Length of Row Spacer
- C. Total Length (Frame + Row Spacer + Frame)
- D. Length of the 4" Rail
- E. Total length of the end of aisle protection, which varies in accordance with upright type



Back-to-Back Row



Selective Roll Formed Beams and Frames

END OF AISLE PROTECTOR PRODUCT CODES

The following codes include: 1 protection rail U4" and 2 Bolts W $\frac{1}{2}$ X 1 $\frac{13}{16}$ " D933 G5 B T.2A (T0032936).





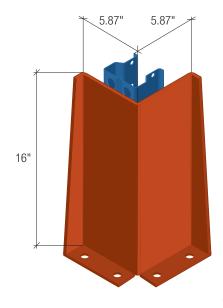
Orange I	RAL 2001	Yellow R	AL 1021
Part Number	Description	Part Number	Description
T0034166	END AIS. PROT.U4" 38 3/8"	T0203300	END AIS. PROT.U4" 38 11/32" E83
T0034167	END AIS. PROT.U4" 44 3/8"	T0203301	END AIS. PROT.U4" 44 11/32" E83
T0034168	END AIS. PROT.U4" 46 3/8"	T0203302	END AIS. PROT.U4" 46 11/32" E83
T0034169	END AIS. PROT.U4" 50 3/8"	T0203303	END AIS. PROT.U4" 50 11/32" E83
T0060808	END AIS. PROT.U4" 80 3/8"	T0203306	END AIS. PROT.U4" 80 11/32" E83
T0060811	END AIS. PROT.U4" 82 3/8"	T0203309	END AIS. PROT.U4" 82 3/8" E83
T0034170	END AIS. PROT.U4" 84 3/8"	T0203304	END AIS. PROT.U4" 84 3/8" E83
T0060814	END AIS. PROT.U4" 86 3/8"	T0203312	END AIS. PROT.U4" 86 11/32" E83
T0060809	END AIS. PROT.U4" 92 3/8"	T0203307	END AIS. PROT.U4" 92 3/8" E83
T0060812	END AIS. PROT.U4" 94 3/8"	T0203310	END AIS. PROT.U4" 94 3/8" E83
T0034171	END AIS. PROT.U4" 96 3/8"	T0203305	END AIS. PROT.U4" 96 11/32" E83
T0060815	END AIS. PROT.U4" 98 3/8"	T0203313	END AIS. PROT.U4" 98 11/32" E83
T0060810	END AIS. PROT.U4" 104 3/8"	T0203308	END AIS. PROT.U4" 104 3/8" E83
T0060813	END AIS. PROT.U4" 106 3/8"	T0203311	END AIS. PROT.U4" 106 11/32" E83
T0060816	END AIS. PROT.U4" 110 3/8"	T0203314	END AIS. PROT.U4" 110 11/32" E83

CORNER GUARD (T0033487)

Corner guards protect the corner or the end of the aisle post and fit any type of post.

They are gauge 3 ($\frac{1}{4}$ " or 0.25" thick) by 5 $\frac{7}{6}$ " x 5 $\frac{7}{6}$ " x 16" high and have four holes in the base that allow them to be anchored to the floor with four $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " long anchor bolts U MSA (T0034139).

• Available in a standard orange (RAL-2001) finish.





Selective Roll Formed Beams and Frames

CROSS AISLE TIES

Cross aisle ties are an assembly of posts and brackets used to provide additional rigidity for racks not attached to the wall, but whose height (at the level of the top loaded shelf) to depth ratio is equal to, or greater than 8. In back-to-back rows, the depth will be the sum of the two individual frame depths, plus the row spacer's length.

Rack with a height to depth ratio of 8 or greater can also be addressed with larger base plates and deeper anchors. **Have your account representative contact Interlake Mecalux Engineering for specifics on this application.**

ADDITIONAL GUIDELINES FOR CROSS AISLE TIE APPLICATION

- When the rack is more than 32' high (384"), cross aisle ties are recommended.
- The number of cross aisle ties to be used depends on the length of the beams of the bay and on the height/depth ratio.
- Cross aisle ties do not eliminate the need to anchor a frame to the floor.
- Frames on both sides of the aisle that are joined together by cross aisle ties should be higher than the rest of the frames in a row because they need to allow the forklifts to go through.
- You can use the following formula to calculate the height of a cross aisle tied frame:

Examples of Depth Ratio Calculations for Cross Aisle Ties:

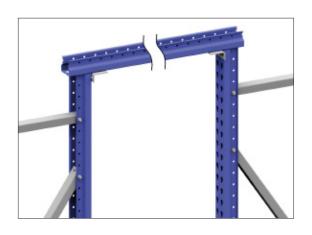
For a frame that is 360" high x 42" deep:

Height/depth ratio = 360'' / 42'' = 8.5. In this case, cross aisle ties are required.

For a back-to-back row with (2) 360'' high x 36'' deep frames connected by a 6'' row spacer:

Height/depth ratio = 360'' / (36'' + 6'' + 36'') = 4.6. In this case, cross aisle ties are not required.

Frame Height / Top Load Level	Frame Depth	Height/Depth Ratio
24' (288")	36"	8
28' (336")	42"	8
29' 4" (352")	44"	8
32' (384")	48"	8

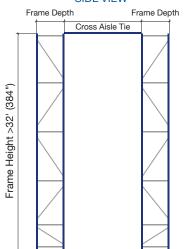


Recommended Cross Aisle Tie Quantity Based On Beam Length and Height To Depth Ratio				
Length of Beam	Height/Depth Ratio	Number of Cross Aisle Ties		
48" to 72"	8 to 10	One cross aisle tie every third consecutive bay		
72" to 108"	8 to 10	One cross aisle tie every second consecutive bay		
More than 108"	8 to 10	One erece siele tie ner hou		
Any Length	More than 10	One cross aisle tie per bay		

TOP DOWN VIEW

BAY 1	BAY 2	BAY 3		rianie Debui
<every bay=""></every>	Every 2nd bay	——Every 3rd bay —→	Cross Aisle Tie	
BAY 1	BAY 2	BAY 3		and Depart
		Beam Length		. =

SIDE VIEW



Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

ARM BRACKETS (ARM PORTAL U)

Each arm bracket is a Gauge 7, ${}^{17}\!/_{6}$ " (1.43") x 2 ${}^{11}\!/_{6}$ " (2.68") x ${}^{3}\!/_{6}$ " (0.18") angle, with two slots on each of its wings. One side is attached to the frame, the other is connected to the cross aisle post. See kit for connector details.

It should be noted that the position of the arm bracket differs slightly between welded and bolted frames. For bolted frames, the distance between the top of the frame and the top of the arm bracket is 0.072"; for welded frames, this distance is 0.276".

Arm Portal U Standard Part Number					
Part Description	Part Number				
Arm Bracket (Arm Portal U)	T0032605				

CROSS AISLE BRACKET SET

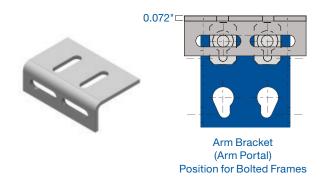
In order to facilitate the ordering process, cross aisle bracket TD U sets have been created. This set includes the following components:

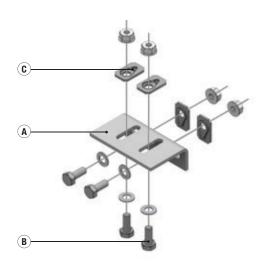
- A. (2) Arm Brackets (Arm Portal, T0032605)
- B. (8) W $\frac{5}{16}$ x $\frac{3}{4}$ " D933 G5 B TE1A Bolts (T0032927)
- C. (8) Washer Cup-Foot Plates TD UU (T0043168)

Cross Aisle Tie Bracket TD U Set					
Part Description Part Number					
Cross Aisle Bracket TD U Set	T0053805				

CROSS AISLE POST TD U314

The components of the cross aisle ties are: POST TD U314 (Family code PU314TD, for frames with 315, 314, 313, 312, 101, 102, 122 and UA10 upright) Profile available in different lengths in 2" increments. They should be attached to the cross bracket using two $^5/\!\!\!/_6$ " diameter x $^3/\!\!\!/_4$ " long grade 5 bolts on each side. Standard posts matching the upright model are typically used. Adding 6" (or rounding to the next whole foot) to aisle width allows for variance/modification in the field. They have a blue electro deposition finish.







Cross Aisle Post TD U314 (Family code PU314TD)

PALLET STOPS

Pallet stops for bolted frames are systems made of metal profiles used to stop pallets from sliding off the back of the rack.

APPLICATIONS

Using this system helps to avoid the risk of any pallets falling, striking other objects or pushing pallets in the opposite bay out of place when they are being manipulated during loading and unloading.

It is recommended to use pallet stops for the following applications:

- Pallet stops should be used inside cold storage rooms, on the racks next to walls, to avoid causing serious damage to the installation by any poor handling of pallets.
- When there is a fire sprinkler system, to avoid damaging the fire alarm's components.
- If back-to-back rows are very close to each other.
- Busy aisles.

PALLET STOP RAILS

The pallet stop rail profile C.Brac.H.U97 is designed for lengths 72" or longer. Rail profiles come in standard lengths up to 208".

They are drilled along their wider face every 2" with 2 holes next to each other.

• Available in a standard blue (RAL-5003) finish.





Interlake MECALUX

Product Support GuideSelective Roll Formed Beams and Frames

PALLET STOP ARMS (PROFILE U97)

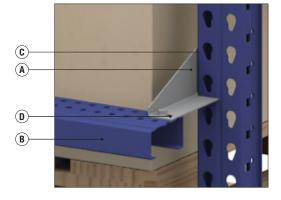
The pallet stop arms (profile U97) are bolted to the side holes of the posts. The pallet stop rail is then bolted to the arms to form the pallet stop assembly. Separate arms are needed to accommodate right and left posts.

• Available in a standard galvanized finish.





ARM STOP PAL. U LEF. Left T0054041



- A. Pallet Stop Arm
- B. Pallet Stop Arm Rail
- C. 5/16" x 3/4" Bolt
- D. 3/8" x 3/4" Bolt

U 97 PALLET STOP ARM SET OFFSET OPTIONS

The way in which the rail attaches to the arm depends on the amount of pallet overhang required. The type and location of the connection of the pallet stop arm is determined by how much the pallet overhangs from the frame.

OFFSET OPTIONS

In single or back-to-back configurations, the following options can be used. For typical flue spaces, contact your Interlake Mecalux representative.

Load Overhang	Pallet Stop Offset	Position
0" ≤ 1.5"	1 5/8" (1.62")	1
> 1.5" ≤ 2.5"	2 3/4" (2.75")	2
> 2.5"≤ 3"	3 1/8" (3.12")	3
> 3" ≤ 4"	4 1/4" (4.25")	4

Position 1	Position 2	Position 3	Position 4
1 5/8"	2 3/4"	3 1/8"	4 1/4"



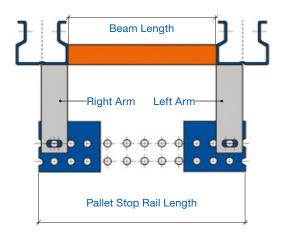
Selective Roll Formed Beams and Frames

PALLET STOP RAIL LENGTH CALCULATION

The maximum length of the pallet stop rail is 208".

The length of the standard pallet stop rail is related to the beam where the pallet stop will be installed. The pallet stop rail is equal to the length of the beam plus 3". It is recommended that the maximum length of the pallet stop rail used is the same as the height of the frames. Other rail lengths must be ordered as VL's using family code PERFATHU (hardware must be added separately).

Pallet Stop Rail Sets & Actual Rail Length						
Beam Length	Description	Part Number	Pallet Stop Rail Length			
72"	St. Arm Stop Pal. 72"	T0054046	75"			
84"	St. Arm Stop Pal. 84"	T0054048	87"			
90"	St. Arm Stop Pal 90"	T0054057	93"			
96"	St. Arm Stop Pal. 96"	T0054059	99"			
102"	St. Arm Stop Pal. 102"	T0054060	105"			
108"	St. Arm Stop Pal. 108"	T0054061	111"			
120"	St. Arm Stop Pal. 120"	T0071202	123"			
132"	St. Arm Stop Pal 132"	T0071203	135"			
144"	St. Arm Stop Pal. 144"	T0071204	147"			



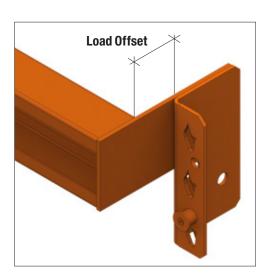
BACKSTOP

The backstop is a single piece that does not require accessories, since it is directly fastened to the uprights with a piston-lock at each end.

- Must be installed 12" from the top of the support load beam.
- Standard overhangs: 0", 3", 4" and 6"
- Standard lengths: 48", 96", 108", 120" and 144"
- For other bay widths, back stops can be ordered as VL using Family Codes: LATF3M0, LATF3M3, LATF3M4 & LATF3M6.

Backstop Part Numbers							
Part Number	Length	Load Offset	Family	Part Number	Length	Load Offset	Family
U0201070	48"			U0201076	48"		
U0201071	96"			U0201077	96"		
U0208330	108"	0"	LATF3M0	U0208334	108"	0"≤4"	LATF3M4
U0208331	120"			U0208335	120"		
U0201072	144"			U0201078	144"		
U0201073	48"			U0201079	48"		
U0201074	96"			U0201080	96"		
U0208332	108"	0"≤3"	LATF3M3	U0208336	108"	0"≤6"	LATF4M6
U0208333	120"			U0208337	120"		
U0201075	144"			U0201081	144"		







Product Support GuideSelective Roll Formed Beams and Frames

WELDED ROLL FORMED FRAMES

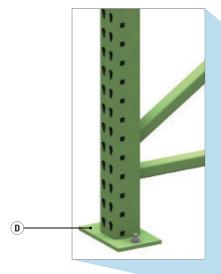
COMPONENTS

Welded selective frames are painted standard cataphoresis green (RAL-6033) finish and adhere to the latest RMI 2012 standards.

Foot plates and bracing are welded to the post using 1/8" (0.125") fillet welds.

- A. Post (070F, 075F, 077F, 079F, 095F or 099F)
- B. Horizontal Bracing (IHAFZ or IHAFW)
- C. Diagonal Bracing (IHAFZ or IHAFW)
- D. Foot Plates (0, J or M)





The front of the frame is located where the first two struts are adjacent to each other.



Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

PRODUCT CODE DESCRIPTION

Standard frames are manufactured in even 12" increments for height and 2" increments for depth. Custom options are available on 2" increments. **Contact your Interlake Mecalux representative for more information.**

- Standard depths: 36", 42", 44", and 48".
- Available in standard vista green (RAL-6033) and cataphoresis blue (RAL-5003) finishes.
- Special frame sizes and finishes available upon request.

Welded Frames							
	FR.2.7_F FR.2.9_F Standard Interval						
Height minimum	36" (3')	36" (3')	Fyon, 10" *				
Height maximum	480" (40')	480" (40')	Every 12" *				
Depth minimum	36"	36"	36", 42",				
Depth maximum	48"	48"	44" and 48"				

^{*} Custom height intervals are available every 2".
Contact your Interlake Mecalux representative for more information.



IE275F19242GJ00000 **Welded Frame** Frame Model: Reinforcement Height (in) 270F = 3"x3" 14GA 275F = 3"x3" 13GA Reinforcement Post Model 277F = 3"x3" 12GA 279F = 3"x3" 11GA **Reinforcement Position** 295F = 4"x3" 13GA 299F = 4"x3" 11GA **Heavy Bottom Horizontal or Flush Foot Plate** Frame Height (in) Foot Plate Model: 0, J and M. Frame Depth (in), CL = Column If No Letter Appears Foot Plate Color G = Green Model Is Standard "0" N = Blue

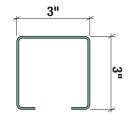
Welded Frames With Standard Components					
Frame	Post	Foot Plate	Bracing	Height	Available Depths
FR.2.7_F		"0"			
FR.2.7_F J	IE070F, IE075F, IE077F & IE079F	"J"	IHAFW	3' (min) to 40' (max) Every 12" *	18" - 72" **
FR.2.7_F M		"M"			
FR.2.9_F		"0"			
FR.2.9_F J	IE095F & IE099F	"J"	IHAFZ	3' (min) to 40' (max) Every 12" *	18" - 72" **
FR.2.9_F M		"M"		21019 12	

^{*} Custom height intervals are available every 2"

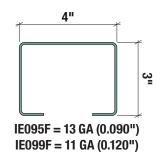
^{**} As a special order, depths of 18"-72" are available for all frame models. Contact your Interlake Mecalux representative for more information.



Selective Roll Formed Beams and Frames



IE070F = 14 GA (0.075") IE075F = 13 GA (0.090") IE077F = 12 GA (0.105") IE079F = 11 GA (0.120")



	Welded Frame Capacities (lbs)										
- 1	Model FR.2.70F		FR.2	FR.2.75F FR.2.77F		FR.2.79F		FR.2.95F	FR.2.99F		
(Gauge	14 GA (0.075")	13 GA (0.090")		12 GA (12 GA (0.105")		11 GA (0.120")		11 GA
ı	Height	≤ 21'	> 21'	≤ 21'	> 21'	≤ 21'	> 21'	≤ 21'	> 21'	(0.090")	(0.120")
	36"	27,600	29,300	32,900	34,900	38,000	40,400	43,000	45,700	43,900	57,900
	42"	25,900	27,400	30,700	32,600	35,500	37,600	40,100	42,600	42,300	55,600
	48"	23,900	25,300	28,400	30,000	32,700	34,700	37,000	39,200	40,400	53,100
	54"	21,900	23,100	25,900	27,400	29,900	31,600	33,700	35,600	38,300	50,300
pr)	60"	19,800	20,900	23,400	24,700	26,900	28,500	30,300	32,100	36,100	47,400
Maximum Unsupported Span (HbL)	66"	17,700	18,700	20,900	22,100	24,000	25,400	27,000	28,500	33,900	44,300
ted Sp	72"	15,700	16,500	18,500	19,500	21,200	22,400	23,800	25,100	31,500	41,200
ıpporl	78"	13,700	14,400	16,100	17,000	18,400	19,400	20,700	21,800	29,200	38,100
ı Unsı	84"	12,000	12,600	14,100	14,800	16,100	16,900	18,100	18,900	26,900	34,900
imun	90"	10,600	11,000	12,400	12,900	14,200	14,800	15,900	16,600	24,500	31,900
Мах	96"	9,400	9,700	11,000	11,400	12,600	13,100	14,100	14,600	22,300	28,900
	102"	8,400	8,600	9,800	10,200	11,300	11,600	12,600	13,000	20,100	26,000
	108"	7,500	7,700	8,800	9,100	10,100	10,400	11,300	11,700	18,000	23,300
	114"	6,800	6,900	8,000	8,200	9,100	9,400	10,200	10,500	16,200	20,900
	120"	6,100	6,300	7,200	7,400	8,300	8,500	9,300	9,500	14,700	18,900

*NOTE:

- Capacities are per the 2012 RMI and 2001 AISI specifications.
- ullet Frame capacities shown include product load plus dead load (dead load = 2% of product load).
- Maximum unsupported height (Height between levels) is the maximum beam spacing or the distance between the floor and the top of the first beam (whichever is greater).
- Capacities are only valid when used with Interlake Mecalux published beam sizes.
- Capacities are valid for static load only.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.

Selective Roll Formed Beams and Frames

WELDED POST PROFILES AND FRAMES

Welded posts are offered in 2 different profiles and a variety of gauges. Perforations are located every 2" on both the face and sides of each profile.

The perforations on the face (tear drop, "F" style) are designed to allow the fitting of beams, with the narrow section of the punch facing downwards, as shown in the drawing.

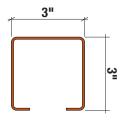
Side perforations are used for fitting accessories, such as row spacers and column protectors, using $\frac{3}{6}$ " (0.375") or $\frac{7}{6}$ " (0.4375") diameter grade 5 bolts.



IE07_F - 3" x 3" "F" Punch Post "0" Foot Plate

SIDE HOLE ONLY PUNCHED POST

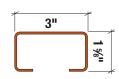
Columns and frames can be ordered with only side hole punching upon request. Place "R" in position 6 of the product code. This option is available for DR rails for welded Drive-In systems or Pallet Stops.



IK070R = 14 GA (0.075") IK075R = 13 GA (0.090") IK077R = 12 GA (0.105") IK079R = 11 GA (0.120")



IK07_ "R" Punch Post (DR Rail) no foot plate Family Code IKIE07_R



IK025R = 13 GA (0.090")



IK025 "R" Punch Post (DR Rail) no foot plate Family Code IKIE025R



Selective Roll Formed Beams and Frames

STANDARD FOOT PLATES AND SHIMS

FOOT PLATES

Frames are secured to the ground using foot plates that are welded to the bottom of the posts with a $\frac{1}{6}$ " (0.125") fillet weld. Foot plates are then anchored to the floor.

All foot plates come with holes that allow the frame to be anchored into the floor. Each hole is $\frac{5}{4}$ " (0.625") in diameter.

The standard foot plate is "O". For other foot plate option types, the frame requires an alternative part number.

"J" and "M" foot plates are commonly used in the event of seismic loading or in locations with less than desired floor structures.

Different foot plates and projects requiring seismic analysis may require additional or special anchors.

SHIMS

Shims are metal plates with the same dimensions as foot plates. They help to level out frames that are placed on irregular surfaces. There are different shims for each type of foot plate.

Two thicknesses are available to enable accurate leveling. The IHASB shim is an 11 gauge (0.120") thick option. The IHASA shim is a 16 gauge (0.060") thick option.

When ordering shims, the following guidelines are typically used:

IHASB

2 x frame quantity

1x post quantity*

IHASA

1x frame quantity

1x post quantity*

• Available in a standard galvanized finish.

Standard "0" Foot Plates & Shims



Frame	Family			
FR.2.70F	IK270F			
FR.2.75F	IK275F			
FR.2.77F	IK277F			
FR.2.79F	IK279F			
Part No.	Description			
Foot Plate T	ype: "0" Frame FR.2.7_F			
U0075045	SHIM IHASB GA 11 (0.120")			
U0075071	SHIM IHASA GA 16 (0.060")			

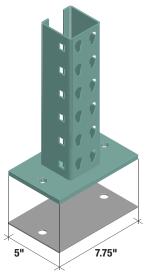


Frame	Family	
FR.2.95F	IK295F	
FR.2.99F	IK299F	
Part No.	Description	
Foot Plate Type: "0" Frame FR.2.9_F		
U0075046	SHIM IHASB GA 11 (0.120")	
U0075031	SHIM IHASA GA 16 (0.060")	

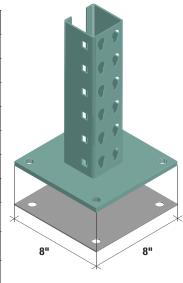


Selective Roll Formed Beams and Frames

Heavy-Duty "J" & "M" Foot Plates & Shims



Frame	Family
FR.2.70F J	IK270FJ
FR.2.75F J	IK275FJ
FR.2.77F J	IK277FJ
FR.2.79F J	IK279FJ
FR.2.95F J	IK295FJ
FR.2.99F J	IK299FJ
Part No.	Description
	pe: "J" Frame FR.2.7_F J pe: "J" Frame FR.2.9_F J
U0075048	SHIM IHASB GA 11 (0.120")
U0075033	SHIM IHASA GA 16 (0.060")

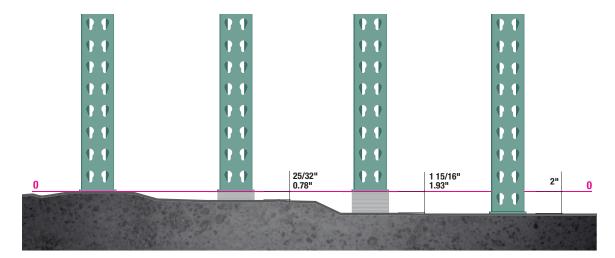


Frame	Family			
FR.2.70F M	IK270FM			
FR.2.75F M	IK275FM			
FR.2.77F M	IK277FM			
FR.2.79F M	IK279FM			
FR.2.95F M	IK295FM			
FR.2.99F M	IK299FM			
Part No.	Description			
	: "M" Frame FR.2.7_F M : "M" Frame FR.2.9_F M			
U0075052	SHIM IHASB GA 11 (0.120")			
U0075036	SHIM IHASA GA 16 (0.060")			

SHIMMING

In installations with very uneven floors, the maximum shim height should not exceed $1^{15}/6"$ (1.93"). If the unevenness of the floor exceeds this dimension, the post is to be repositioned vertically using a hole punch as a reference for the distance ($\pm 2"$).

Note that shimming may require longer anchors to maintain minimum embedment.



ANCHORS

Every column in a selective pallet rack installation should be anchored to the floor with at least one $\frac{1}{2}$ " diameter expansion anchor that has a minimum embedment of $2\frac{1}{2}$ ". Some installations require additional heavier anchorage due to seismic considerations.

The standard anchor provided for roll formed selective pallet rack installations is anchor $^1\!\!/_2$ -13 X 5 $^1\!\!/_2$ " (U0074596).



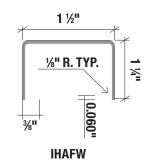


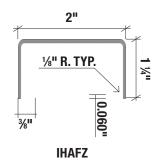
Selective Roll Formed Beams and Frames

WELDED FRAME STRUTS

Welded struts are "C" shaped profiles that are welded to the post using $\frac{1}{6}$ " (0.125") fillet welds. When struts are placed diagonally, they are referred to as diagonals. When placed horizontally, they are referred to as horizontals.

Welded Struts							
Model	Model Frame Model						
IHAFW	2.70, 2.75, 2.77 & 2.79	16 GA					
IHAFZ	2.95 & 2.95	16 GA					





DEFENDER BASES

90° DEFENDER BASE

The 90° defender base design moves the front column back 12" from the aisle, reducing the likelihood of forklift contact. It has a bolt-on design for easy installation. The front column of the base is made of tubular steel with a $\frac{3}{16}$ " (0.1875") thick wall, which is thicker and more abuse resistant than standard rack.

It ships unassembled.

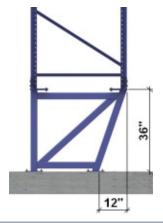


SLOPE LEG BASE

The slope leg base recesses the column 12" from the aisle at the floor level, where most fork truck damage typically occurs.

They can be used for both bolted and welded frames.

The frame needs to be created using flush "M" footplates (FR.2.31_ BMF G, FR.2.10_ BMF G, FR.2.122 BMF G, FR.2.7_F MF and FR.2.9_MF), with the standard strut pattern.



	90° D	efender Base			Slope	Leg Base	
Blue (R	AL-5003)	Green	(RAL-6033)	Blue (RA	AL-5003)	Green (RAL-6033)	
Part Number	Description	Part Number Description		Part Number	Description	Part Number	Description
U0200961	DEFENDER 36"	U0200974	DEFENDER 36" 102	U0200987	SLOPE LEG 36"	U0201000	SLOPE LEG 36" 102
U0200964	DEFENDER 42"	U0200977	DEFENDER 42" 102	U0200990	SLOPE LEG 42"	U0201003	SLOPE LEG 42" 102
U0200965	DEFENDER 44"	U0200978	DEFENDER 44" 102	U0200991	SLOPE LEG 44"	U0201004	SLOPE LEG 44" 102
U200967	DEFENDER 48"	U0200980	DEFENDER 48" 102	U0200993	SLOPE LEG 48"	U0201006	SLOPE LEG 48" 102
U0200973	DEFENDER 60"	U0200986	DEFENDER 60" 102	U0200999	SLOPE LEG 60"	U0201012	SLOPE LEG 60" 102

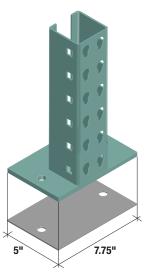


Selective Roll Formed Beams and Frames

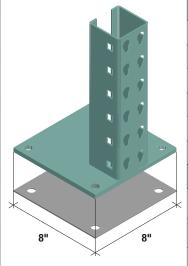
WELDED "JF" AND "MF" FOOT PLATES & SHIMS

Welded F (flush) foot plates will only be used when the anchors cannot interfere with the aisle and/or cannot be placed out of the frame limits. Additionally, flush "M" foot plates are required when quoting Defender Bases.

Heavy-Duty Flush "JF" & "MF" Foot Plates & Shims



Family			
IK270FJF			
IK275FJF			
IK277FJF			
IK279FJF			
IK295FJF			
IK299FJF			
Description			
e: "JF" Frame FR.2.7_F JF e: "JF" Frame FR.2.9_F JF			
SHIM IHASB GA 11 (0.120")			
SHIM IHASA GA 16 (0.060")			



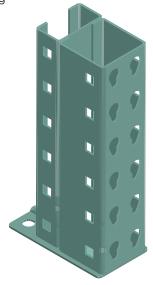
Frame	Family			
FR.2.70F MF	IK270FMF			
FR.2.75F MF	IK275FMF			
FR.2.77F MF	IK277FMF			
FR.2.79F MF	IK279FMF			
FR.2.95F MF	IK295FMF			
FR.2.99F MF	IK299FMF			
Part No.	Description			
	"MF" Frame FR.2.7_F MF "MF" Frame FR.2.9_F MF			
U0075052	SHIM IHASB GA 11 (0.120")			
U0075036	SHIM IHASA GA 16 (0.060")			

WELDED FRAME REINFORCEMENT

Both posts of a frame can be reinforced to increase capacity or when seismic analysis is required.

- Reinforcement is a custom order. All column widths must be identical.
 Contact your Interlake Mecalux representative for further information.
- If the reinforced heights are different for the front and rear columns, a customized engineering drawing is required.
- Frame 2.70F is not designed to be reinforced.
- IE070F posts are not designed to be used as reinforcement.

Welded Frame Reinforcement Product Code										
Code Position 15		Code Position 16		Code Position 17						
Reinforcement Opti	on	Post Model Number	er	Reinforcement Height Code (in)						
No Reinforcement	0	Model 025	А	A = 100	G = 160	S = 260				
Front Post Only	А	Model 075	В	B = 110	K = 190	T = 270				
Rear Post Only	D	Model 077	G	C = 120	L = 200	U = 280				
Both Front and Rear	G	Model 079	Н	D = 130	M = 210	X = 310				
		Model 095	J	E = 140	N = 220	Y = 320				
		Model 099	K	F = 150	R = 250	Z = 330				



2.75F Frame with IE025 reinforcement



Selective Roll Formed Beams and Frames

HEAVY BOTTOM HORIZONTAL STRUT

To provide extra rigidity and resistance to fork truck abuse, the standard welded bottom strut may be substituted for an unpunched (plain) column section.

Typically, the model used for the strut matches the model used as the post.

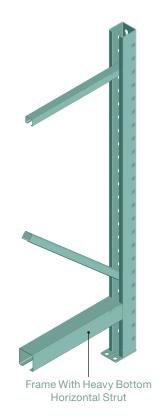
Heavy Bottom Horizontal Strut Product Code*								
Code Position 14								
Post (Strut) Model Number								
Post IE025F	А							
Post IE070F	E							
Post IE075F	В							
Post IE077F	G							
Post IE079F	Н							
Post IE095F	J							
Post IE099F	К							
Flush Foot Plate	2							

^{*}Heavy bottom struts may or may not have hole punches, depending on availability.

POST CAP (FIELD INSTALLED)

- · Available from Pontiac, IL only.
- Adhesive is not included.
- Available in black plastic only.







IHACN10770DP000000 FOR 025F COLUMN



IHACN10771DP000000 FOR 07_F COLUMNS

	Post Cap Options Product Codes											
Column Model	Interlake Mecalux	Item	Qty/Pkg	Style	Size	Code A	Code B	Color	Part No.		Weight (lbs) Per Unit	
	1	2	3	4	5	6-10	11	12			×	
IE025F	I	Н	Α	С	N	10770	D	Р	U0074726	PLASTIC CAP 1 5/8" X 3" COLUMN	0.1	
IE07_F	- 1	Н	Α	С	N	10771	D	Р	U0074728	PLASTIC CAP 3" X 3" COLUMN	0.1	



Selective Roll Formed Beams and Frames

SPLICING

Splices are used to extend the height of new or existing frames.

Contact your Interlake Mecalux representative for more information on usage and possible limitations.

Standard splicing piece for $3'' \times 1^5 \%''$; $3'' \times 3''$; and $4'' \times 3''$ roll formed frame posts.

(2) splices are required per frame.

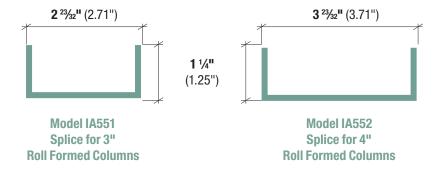
Splice kit for 3" post (U0075865) ships with:

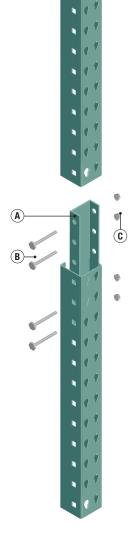
- A. (1) splice (post)
- B. (4) ⁷/₁₆"-14 x 3 ½" bolts U0074666
- C. (4) 7/16" flanged locknuts U0074690

Splice kit for 4" post (U0077717) ships with:

- A. (1) splice (post)
- B. (4) ⁷/₁₆"-14 x 4 ¹/₂" bolts U0074669
- C. (4) ⁷/₁₆" flanged locknuts U0074690

These splices are good for a maximum of 10,000 lbs. above the splice level (5,000 lbs. per column).





Internal Post Splicing Sets Product Codes											
Column Model	Interlake Mecalux	ltem	Model	Style	Length	Color	Part No.	Description	Weight (lbs) Per Unit		
Code Position	1	2	3-5	6	7-11	12			We		
IE025F & IE07_F	I	Α	551	J	01150	G	U0075865	ST.SPLICE INTERN.IA551J 11 ½" I02	2		
IE09_F	I	Α	552	J	01150	G	U0077717	ST.SPLICE INTERN.IA552J 11 ½" I02	2		



Selective Roll Formed Beams and Frames

ROW SPACERS & WALL TIES

OVERVIEW

Rack stability can be increased by adding row spacers and/or wall ties, depending on the height and depth of the rack, the type of walls in the building and the location of the installation. Row spacers and wall ties create a flue space to accommodate pallet overhang, building column burial and easier installation of long runs of rack.

ROW SPACERS

Row spacers are used to join racks together in a back-to-back configuration. This adds rigidity to the system and provides even spacing between racks. Choosing the correct row spacer is based entirely on the frames in the system and length of the flue space. Row spacers come with a standard orange (RAL-2001) finish.

See page 57 for row spacers above 60" in length.

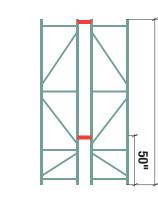
ROW SPACER DISTRIBUTION

The following are recommendations for the placement of row spacers:

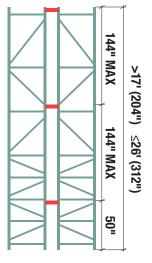
In all cases, care must be taken to avoid interference with beams, struts or any other installation components.

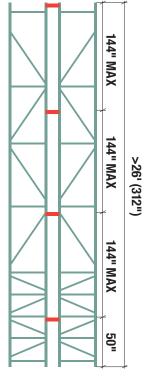
Row Spacer Placement And Quantity Guide							
Frame Height Row Spacer Quantity							
≤ 13'	1						
>13' ≤ 17'	2						
>17' ≤ 26'	3						
> 26'	4+						

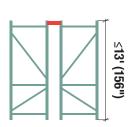
- •Intermediate row spacers should be located close to strut connections and should maintain equal distances between spacers, with no more than 144" between them.
- •The top row spacer should be installed next to the highest horizontal strut.
- •The bottom row spacer must be installed no higher than 50" from the floor.



>13' (156") ≤17' (204")







Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

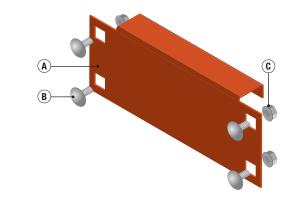
SINGLE POST ROW SPACER: IK501

For row spacers connecting 3'' or 4'' wide columns in a face-to-face arrangement for spans under 50'', the hardware below is supplied with the IK501 Row Spacer. This part is shaped to be attached securely to frames 2.7_F , 2.9_F and UA10.

- A. (1) Row Spacer IK501.
- B. (4) Bolt 3/8-16 x 5/8" FLNG G5 Z (Part number U0074648).
- C. (4) Locknut Flange 3/8-16 Z (Part number U0074687).

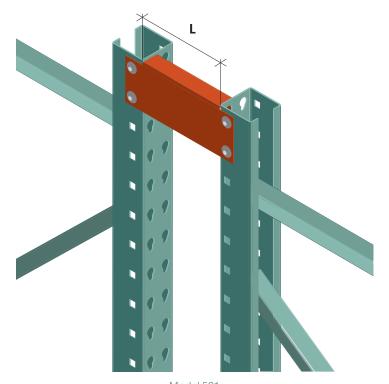
Single Post Row Spacer - Model 501 Product Code									
	Interlake Mecalux	Item	Model	Style	Space Length xxx.xx (in)	Color			
Code Position	1	2	3-5	6	7-11	12			
	I	Α	501	S		R			

For 3" or 4" wide posts (face-to-face).



Single Post Row Spacer - Model 501 Sets*									
Length	Part Number	Length	Part Number	Length	Part Number				
2"	U0075881	14"	U0075885	32"	U0075891				
4"	U0075740	15"	U0088636	36"	U0075892				
6"	U0075880	16"	U0075886	40"	U0075893				
8"	U0075882	18"	U0075887	44"	U0088637				
9"	U0075757	20"	U0075888	48"	U0088638				
10"	U0075883	24"	U0075889						
12"	U0075884	28"	U0075890						

^{*}Other lengths must be ordered as VL's code up through 60" using Family Code IKCJA501 (hardware will be included).



Model 501 L = Space between posts



Selective Roll Formed Beams and Frames

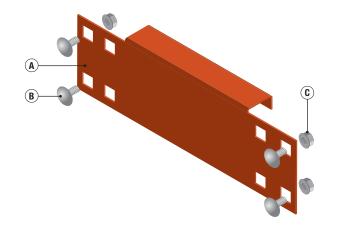
SINGLE POST ROW SPACER: IK503

For row spacers connecting 3" or 4" wide columns in a face-to-back arrangement for spans under 50", the hardware below is supplied with the IK503 Row Spacer. This part is shaped to be attached securely to frames 2.7_F and 2.9_F.

- A. (1) Row Spacer IK503.
- B. (4) Bolt 3/6-16 x 5/6" FLNG G5 Z (Part number U0074648).
- C. (4) Locknut Flange 3/8-16 Z (Part number U0074687).

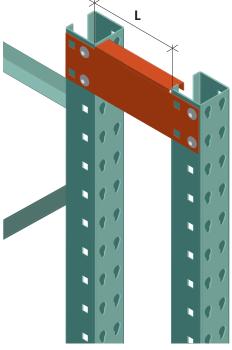
Single Post Row Spacer - Model 503 Product Code							
	Interlake Mecalux	Item	Model	Style	Space Length xxx.xx (in)	Color	
Code Position	1	2	3-5	6	7-11	12	
	I	Α	503	S		R	

For 3" or 4" wide posts (face-to-back).



Single Post Row Spacer - Model 501 Sets*								
Length	Part Number Length Part Number Length Part Number							
2"	U0075894	12"	U0075900	28"	U0075906			
4"	U0075895	14"	U0075901	32"	U0075907			
6"	U0075896	16"	U0075902	36"	U0075908			
8"	U0075897	18"	U0075903	40"	U0075909			
9"	U0075898	20"	U0075904					
10"	U0075899	24"	U0075905					

*Other lengths must be ordered as VL's code up through 60" using Family Code IKCJA503 (hardware will be included).



Model 503 L = Space between posts



Selective Roll Formed Beams and Frames

REINFORCED 3" POST ROW SPACER: IK464

For row spacers connecting 3'' wide reinforced columns in a face-to-face arrangement for spans under 60'', the following hardware is supplied with the IK464 Row Spacer:

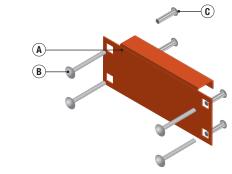
- A. (1) Row Spacer IK501.
- B. $(4)^{1}/2$ " x 2 $^{3}/8$ " shoulder bolts with $^{3}/8$ " dia. outside thread (U0074634)
- C. (4) $\frac{1}{2}$ " barrel nuts with $\frac{3}{6}$ " dia. inside thread & square neck (U0074697)

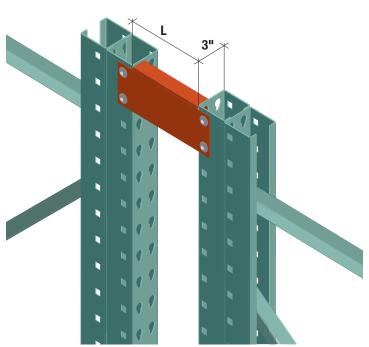
Reinforced Post Row Spacer - Model 464 Product Code								
	Interlake Mecalux	Item	Model	Style	Space Length xxx.xx (in)	Color		
Code Position	1	2	3-5	6	7-11	12		
	Т	Α	464	S		R		

For reinforced 3"wide posts (face-to-face).

	Reinforced 3" Face to Face Row Spacer - Model 464 Sets*							
Length	n Part Number Length Part Number Length Part Numbe							
2"	U0088663	14"	U0088670	32"	U0088677			
4"	U0088664	15"	U0088671	36"	U0088678			
6"	U0088665	16"	U0088672	40"	U0088679			
8"	U0088666	18"	U0088673	44"	U0088680			
9"	U0088667	20"	U0088674	48"	U0088681			
10"	U0088668	24"	U0088675					
12"	U0088669	28"	U0088676					

^{*}Other lengths must be ordered as VL's code up through 60" using Family Code IKCJA464 (hardware will be included).





Model 464 in face-to-face arrangement L = Space between posts



Selective Roll Formed Beams and Frames

REINFORCED 3" POST ROW SPACER: IK465

For row spacers connecting 3" wide reinforced columns in a face-to-face, face-to-back, or back-to-back arrangement for spans under 60", the following hardware is supplied with the IK465 Row Spacer:

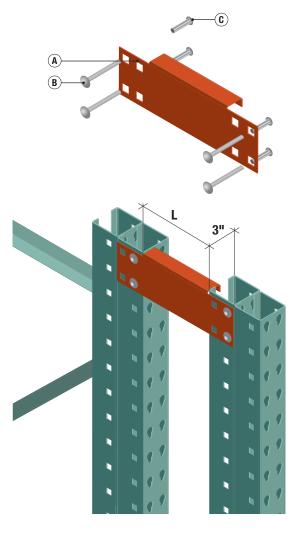
- A. (1) Row Spacer IK503.
- B. (4) $\frac{1}{2}$ " x 2 $\frac{3}{6}$ " shoulder bolts with $\frac{3}{6}$ " dia. outside thread (U0074634)
- C. $(4)^{1}/2$ " barrel nuts with 3/8" dia. inside thread & square neck (U0074697)

Reinforced Post Row Spacer - Model 465 Product Code								
	Interlake Mecalux	Item	Model	Style	Space Length xxx.xx (in)	Color		
Code Position	1	2	3-5	6	7-11	12		
	Т	Α	465	S		R		

For reinforced 3" wide posts (face-to-back).

	Reinforced 3" Face to Back Row Spacer - Model 465 Sets*							
Length	Part Number Length Part Number Length Part Number							
2"	U0088643	14"	U0088650	36"	U0088657			
4"	U0088644	16"	U0088651	40"	U0088658			
6"	U0088645	18"	U0088652	41"	U0088659			
8"	U0088646	20"	U0088653	45"	U0088660			
9"	U0088647	24"	U0088654	47"	U0088661			
10"	U0088648	28"	U0088655	49"	U0088662			
12"	U0088649	32"	U0088656					

^{*}Other lengths must be ordered as VL's code up through 60" using Family Code IKCJA465 (hardware will be included).



Model 465 in face-to-back arrangement L = Space between posts



Selective Roll Formed Beams and Frames

REINFORCED 4" POST ROW SPACER: IK641 AND IK643

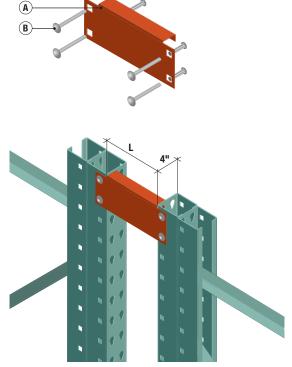
Row Spacer 641 is used to connect 4" wide reinforced columns in a face-to-face arrangement, 643 is used to connect 4" wide reinforced columns in a face-to-back arrangement, both are for spans under 60"; the following hardware is supplied with the IK641 & IK643 Row Spacer:

- A. (1) Row Spacer IK501 (IK641) or 503 (IK643).
- B. $(4)^{7}/_{16}$ "- $14 \times 4^{1}/_{2}$ " bolts (U0074669)
- C. (4) ⁷/₁₆" 14 flanged locknuts (U0074690)

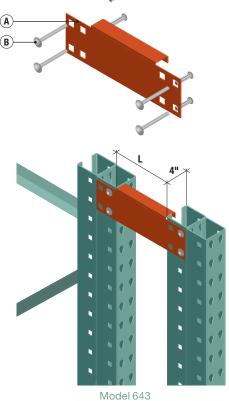
Reinforced Post Row Spacer - 641 and 643 Product Code							
	Interlake Mecalux	Item	Model	Style	Space Length xxx.xx (in)	Color	
Code Position	1	2	3-5	6	7-11	12	
	I	Α	641	S		R	
	I	Α	643	S		R	

	Reinforced 4" Face to Face Row Spacer - Model 641 Sets*							
Length	Part Number	Length	Part Number	Length	Part Number			
6"	U0088683	12"	U0088685	18"	U0088687			
8"	U0088684	16"	U0088686					
	Reinforced 4" F	ace to Back	Row Spacer - N	Model 643 S	ets*			
Length	Part Number	Length	Part Number	Length	Part Number			
6"	U0088688	12"	U0088691	18"	U0088693			
8"	U0088690	16"	U0088692					

*Other lengths must be ordered as VL's code up through 60" using Family Code IKCJA641 & IKCJA643 (hardware will be included).



Model 641
For 4" wide reinforced posts (face-to-face)
L = Distance between posts



Model 643
For 4" wide reinforced posts (face-to-back)
L = Distance between posts

Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

RIGID ROW SPACERS

For longer flue spaces, a heavier row spacer is provided. These spacers utilize saddles that wrap around the columns.

RIGID ROW SPACER: IK450 AND IK451

Row Spacer 450 is used to connect 3" wide columns in a face-to-face arrangement, 451 is used to connect 3" wide columns in a face-to-back arrangement, both row spacers are available in lengths from 60" to 120", the following hardware should be added when quoting this row spacer:

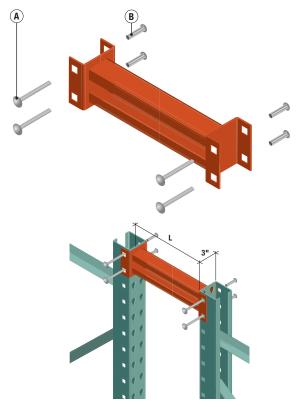
A. (4) $\frac{1}{2}$ " x 2 $\frac{7}{6}$ " shoulder bolts with $\frac{3}{6}$ " dia. outside thread - (U0074635).

B. $(4)\frac{1}{2}$ " barrel nuts with $\frac{3}{6}$ " dia. inside thread (square neck) - (U0074697).

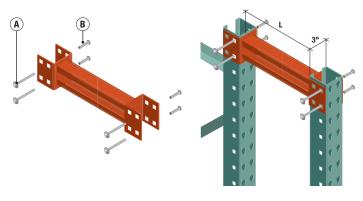
Rigid Row Spacer - Model 450 and 451 Product Code						
	Interlake Mecalux	Item	Model	Style	Spacer Length xxx.xx (in)	Color
Code Position	1	2	3-5	6	7-11	12
	I	Α	450	S		R
	I	Α	451	S		R

	Loose Rigid Row Spacer Standard Part Numbers*								
	450 (face to face) 451 (face to back)								
Length	Part Number	Family Code	Length	Part Number	Family Code				
42"	U0088777		39"	U0088702					
48"	U0081821		43"	U0088703					
50"	U0088778		47"	U0088704					
56"	U0081822	IKIA450	51"	U0088705	IKIA451				
60"	U0081823	IKIA45U	61"	U0088706	INIA451				
62"	U0081824		64"	U0088707					
64"	U0081825		66"	U0088708					
66"	U0081826		75"	U0088709					

^{*}Other lengths must be ordered as VL's code up through 120" using Family Code IKIA450 & IKIA451 (hardware must be added separately).



Model 450
For 3" wide posts (face-to-face standard or reinforced) $L = Distance \ between \ posts$ Hardware is not included.



Model 451
For 3" wide posts (face-to-back standard or reinforced)
L = Distance between posts
Hardware is not included.



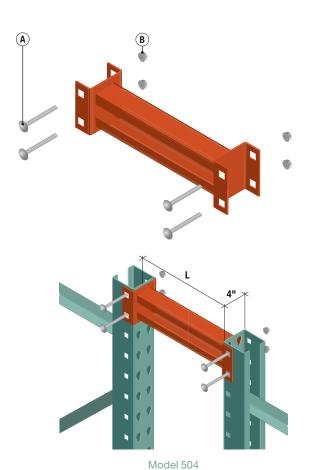
Selective Roll Formed Beams and Frames

RIGID ROW SPACER: IK504 AND IK505

Row Spacer 504 is used to connect 4" wide columns in a face-to-face arrangement, 505 is used to connect 4" wide columns in a face-to-back arrangement, both row spacers are available in lengths from 60" to 120", the following hardware should be added when quoting this row spacer:

- A. (4) ⁷/₁₆"-14 x 4 ³/₄" bolts (U0074670).
- B. (4) 1/16"-14 flanged locknuts (U0074690).

Rigid Row Spacer - Model 504 and 505 Product Code						
	Interlake Mecalux	Item	Model	Style	Spacer Length xxx.xx (in)	Color
Code Position	1	2	3-5	6	7-11	12
	М	Α	504	S		R
	M	Α	505	S		R



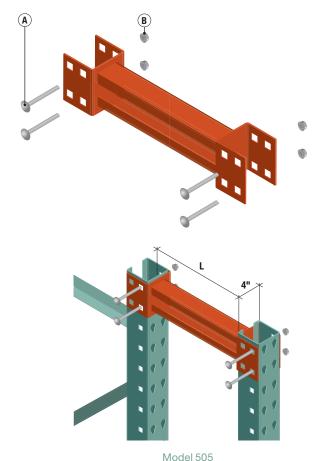
For 4" wide posts (face-to-face standard or reinforced)

L = Distance between posts

Hardware is not included.

Loose Rigid Row Spacer Part Numbers*							
504 (face to face) Model 505 (face to back)							
Length	Part Number	Family Code	Length Part Number Family Coo				
62"	U0088748		62"	U0088751			
72"	U0088749	IKIA504	72"	U0088752	IKIA505		
82"	U0088750		82"	U0088753			

*Other lengths must be ordered as VL's code up through 120" using Family Code IKIA504 & IKIA505 (hardware must be added separately).



For 4" wide posts (face-to-back standard or reinforced)

L = Distance between posts

Hardware is not included.



Selective Roll Formed Beams and Frames

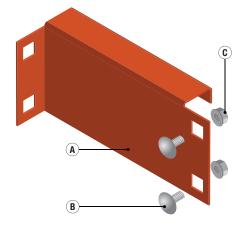
WALL TIES

Components designed to attach the rack to the wall. The type of wall tie used is contingent upon the type of frame that is used.

WALL TIE: IA530

Wall ties are shaped to be attached securely to IEO25F, IEO7_F and IEO9_F posts. The following connectors are used to bolt the wall tie to the side holes of the posts:

- (2) Bolts 3/8"-16 X 5/8" FLNG G5 Z (U0074648).
- (2) Flanged locknuts 3/8"-16 Z (U0074687).
- For lengths between 2" and 18".
- Due to uncertainty in wall structure, wall anchors are not included.



Wall Tie Model IA530

WALL TIE SET: IA530

In order to facilitate the ordering process, wall tie IK530 sets have been created.

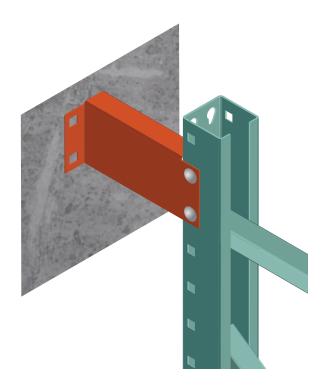
These sets include the following hardware:

- A. (1) Wall Tie IA530
- B. (2) Bolts 3/8"-16 X 5/8" FLNG G5 Z (U0074648)
- C. (2) Flanged locknuts 3/6"-16 Z (U0074687)

Wall Tie IA530 Set*						
Length	Part Description	Part Number				
6"	St. Wall Fix IA530	U0075993				
8"	St. Wall Fix IA530	U0075994				
12"	St. Wall Fix IA530	U0075995				

*Other lengths must be ordered as VL's code up through 60" using Family Code IKCJ530W (hardware will be included).

• Wall anchors are not included.



Interlake Mecalux

Product Support GuideSelective Roll Formed Beams and Frames

POST PROTECTORS

POST PROTECTOR OVERVIEW

- Minimum height is 12" with the exception of 570, which is 10.25" high.
- Must be ordered in even inches.
- Anchors to be ordered separately.
- Model 570 is available from Pontiac, IL.
- Available in a standard orange (RAL-2001) finish (Except for 570, which is safety yellow RAL-1021).

Welded Post Protector Product Codes											
	Welded Frame Width	Interlake Mecalux	Item	Model	Style	Height (in)	Color	Part Number	Hardware Included		
Code Po	sition	1	2	3-5	6	7-11	12				
						01200		U0108382			
	3"					01800		U0108383			
	2.70F			F74	L	02000	п	U0108384	(4) Bolts 3/8"-16 x 3/4" - U0074641		
9.	2.75F 2.77F	I	Α	571	L	02400	R	U0108385	(4) Flange Locknut 3/8"-16 - U0074687		
No Lag Plate	2.79F					03600		U0108386			
o Lag						04800		U0108387			
ž						01200		U0108402			
	4" 2.95F I 2.99F			573	L	02400	R	U0108403	(4) Bolts 3/8"-16 x 3/4" - U0074641 (4) Flange Locknut 3/8"-16 - U0074687		
			Α			03600		U0108404			
						04800		U0108405			
	3"					01200		U0108393			
	2.70F					01800		U0108394	(4) Bolts 3/8"-16 x 3/4" - U0074641		
ate	2.75F	I	Α	572	L	02400	R	U0108395	(4) Flange Locknut 3/8"-16 - U0074687		
With 2 Hole Lag Plate	2.77F 2.79F					03600		U0108396	*(2) Anchors must be added separately		
ole L	2.79F					04800		U0108397			
12H						01200		U0108410	(A) P. H. 2 (II. 40. 2 (II. 1100 T. 10. 4)		
With	4" 2.95F	1	Α	574	L	02400	R	U0108411	(4) Bolts 3/8"-16 x 3/4" - U0074641 (4) Flange Locknut 3/8"-16 - U0074687		
	2.99F	'	A	374	L	03600	n	U0108412	*(2) Anchors must be added separately		
						04800		U0108413	(2) I monoro muoi po audou ocparatery		
Floor Mount 4 Hole Lag Plate	3" 2.70F 2.75F 2.77F 2.79F	I	А	570	L	01025	Е	U0079327	No hardware included Only compatible with Standard Foot Plate on 3" welded Posts *(4) Anchors must be added separately		

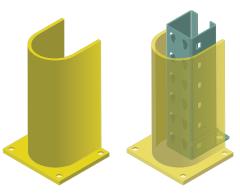
*Non-seismic standard Anchor 1/2"-13 x 4 1/4" (T0034139)



Models 571 and 573



Models 572 and 574



Model 570



Selective Roll Formed Beams and Frames

BARRIER RAIL (INTERGARD 50)

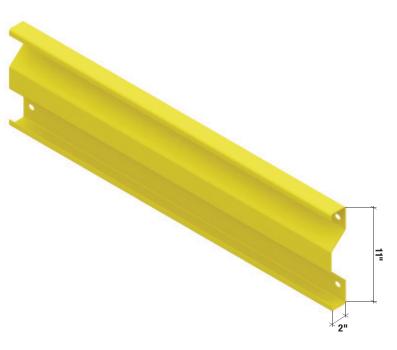
These protectors guard equipment against damage and abuse in the industrial workplace. They are recommended wherever a heavy-duty and highly visible barrier is required. An ideal location is by a heavily traveled intersection where fork trucks take turns.

There are different models depending on the area to protect. The barrier rail (Intergard 50) features the necessary floor mounted post protector, tied together with an IR471N rail.

All of the options are available in 2 post heights: 17" (one rail) and 43" (two rails).

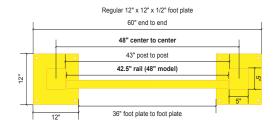
RAIL IK PROT.IR471N

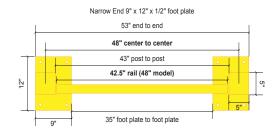
Roll formed profile manufactured in gauge 11 (0.12" thick) and available in Radiant Safety Yellow (RAL-1021).



	Rail section 471								
Post Center to Center	Interlake Mecalux	Item	Model	Style	Post Center to Center (in)	Color	Rail Length (in)	Part Number	
	1	2	3-5	6	7-11	12			
36"	I	R	471	N	03600	Е	30.5	U0082464	
48"	- 1	R	471	N	04800	Е	42.5	U0100262	
60"	Ι	R	471	N	06000	Е	54.5	U0100263	
72"	_	R	471	N	07200	Е	66.5	U0075074	
84"	Ι	R	471	N	08400	Е	78.5	U0075075	
90"	_	R	471	N	09000	Е	84.5	U0075082	
91"	_	R	471	N	09100	Е	85.5	U0075077	
95"	_	R	471	N	09500	Е	89.5	U0075078	
96"	I	R	471	N	09600	Е	90.5	U0075079	
99"	I	R	471	N	09900	Е	114.5	U0075082	
108"	I	R	471	N	10800	Е	102.5	U0075081	
120"	I	R	471	N	12000	Е	114.5	U0075082	

For other lengths use Family Code IKI471N (minimum 19" and maximum 129").









Product Support GuideSelective Roll Formed Beams and Frames

INTERGARD POST SETS - 12" X 12" FOOT PLATE

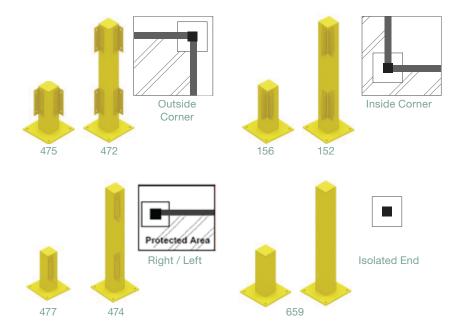
Product features:

Post is 5"x 5" heavy-wall tubing

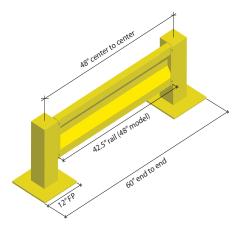
Foot plate is $12'' \times 12'' \times \frac{1}{2}''$.

Ships with $\frac{1}{2}$ "-13 x 1" square neck bolt (part number U0074609) & $\frac{1}{2}$ "-13 flanged locknut (part number U0074686) except for Isolated End.

Requires: 4 Anchors IHAAJ 5/8"-11 x 5" (part number U0074591)



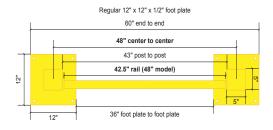
Intergard Post Sets 12" x 12" foot plate					
Style	Part Number	Post Height (in)	Model	Hardware	
Outside	U0076025	17	475	(4) Bolts U0074609 & (4) Locknuts U0074686	
Corner	U0100291	43	472	(8) Bolts U0074609 & (8) Locknuts U0074686	
Inside	U0100289	17	156	(4) Bolts U0074609 & (4) Locknuts U0074686	
Corner	U0100283	43	152	(8) Bolts U0074609 & (8) Locknuts U0074686	
Intermediate	U0076020	17	476	(4) Bolts U0074609 & (4) Locknuts U0074686	
intermediate	U0076024	43	473	(8) Bolts U0074609 & (8) Locknuts U0074686	
Right	U0078448	17	477	(2) Bolts U0074609	
Left	U0078447	17	477	(2) Locknuts U0074686	
Right	U0078452	40	474	(4) Bolts U0074609	
Left	U0078451	43	474	(4) Locknuts U0074686	
looloted Fod	U0100279	17	CEO	Me headings included	
Isolated End	U0079458	43	659	No hardware included	



Intermediate

476

473



Interlake Mecalux

Product Support GuideSelective Roll Formed Beams and Frames

INTERGARD POST SETS - 9" X 12" FOOT PLATE

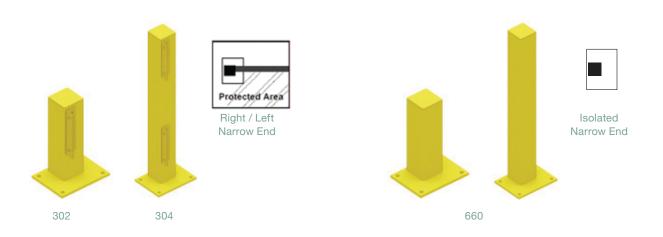
Product features:

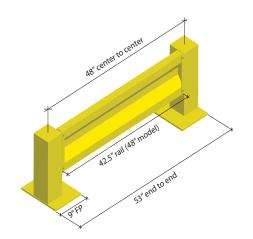
Post is 5"x 5" heavy-wall tubing

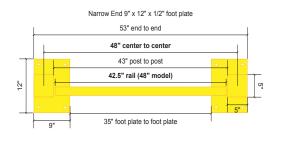
Foot plate is 9" x 12" x ½"

Ships with $\frac{1}{2}$ "-13 x 1" square neck bolt (part number U0074609) & $\frac{1}{2}$ "-13 flanged locknut (part number U0074686) except for Isolated Narrow End.

Requires: 4 Anchors IHAAJ 5/8"-11 x 5" (part number U0074591)







Intergard Post Sets 9" x 12" foot plate						
Rail Connector	Part Number	Post Height (in)	Model	Hardware		
Right	U0076032	17	302	(2) Bolts U0074609 & (2) Locknuts U0074686		
Left	U0076030	17	302	(2) Buils 0007 4009 & (2) Euckilus 0007 4000		
Right	U0076040	43	304	(4) Bolts U0074609 & (4) Locknuts U0074686		
Left	U0076034	43	304	(4) Buils 0007 4009 & (4) Luckiluis 0007 4000		
Isolated	U0100280	17	660	No hardware included		
Narrow End	End U0100281 43	NO Haluwale iliciudeu				

Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

CROSS AISLE TIES

Cross aisle ties are an assembly of posts and brackets used to provide additional rigidity for racks not attached to the wall, but whose height (at the level of the top loaded shelf) to depth ratio is equal to, or greater than 8. In back-to-back rows, the depth will be the sum of the two individual frame depths, plus the length of the row spacer.

Rack with a height to depth ratio of 8 or greater can also be addressed with larger base plates and anchorage. **Have your account representative contact Interlake Mecalux Engineering for specifics on this application.**

ADDITIONAL GUIDELINES FOR CROSS AISLE TIE APPLICATION

- When the rack is more than 32' high (384"), cross aisle ties are recommended.
- The number of cross aisle ties to be used depends on the length of the beams of the bay and on the height/depth ratio.
- Cross aisle ties do not eliminate the need to anchor a frame to the floor.
- Frames on both sides of the aisle that are joined together by cross aisle ties should be higher than the rest of the frames in a row because they need to allow the forklifts to go through.
- You can use the following formula to calculate the height of a cross aisle tied frame:

Height of cross aisle tied frame	=	floor to	+	for the load last beam level	+	16"
		iasi beaiii ievei		iast bealli level		

Examples of Depth Ratio Calculations for Cross Aisle Ties:

For a frame that is 360" high x 42" deep:

Height/depth ratio = 360'' / 42'' = 8.5. In this case, cross aisle ties are required.

For a back-to-back row with (2) 360'' high x 36'' deep frames connected by a 6'' row spacer:

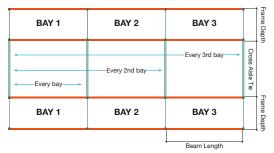
Height/depth ratio = 360'' / (36'' + 6'' + 36'') = 4.6. In this case, cross aisle ties are not required.

Frame Height / Top Load Level	Frame Depth	Height/Depth Ratio
24' (288")	36"	8
28' (336")	42"	8
29' 4" (352")	44"	8
32' (384")	48"	8

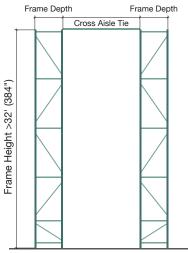


Recommended Cross Aisle Tie Quantity Based On Beam Length and Height To Depth Ratio						
Length of Beam	Number of Cross Aisle Ties					
48" to 72"	8 to 10	One cross aisle tie every third consecutive bay				
72" to 108"	8 to 10	One cross aisle tie every second consecutive bay				
More than 108"	8 to 10	One group side tie ner hav				
Any Length	More than 10	One cross aisle tie per bay				

TOP DOWN VIEW



SIDE VIEW





Selective Roll Formed Beams and Frames

ARM BRACKETS (ARM PORTAL U)

Each arm bracket is a 7 gauge, $17/_{6}$ " x $2^{11}/_{6}$ " x $3^{3}/_{6}$ " angle, with two slots on each of its wings. One side is attached to the frame; the other is connected to the cross aisle post. See kit for connector details.

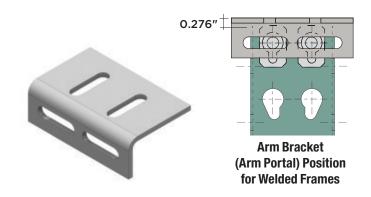
It should be noted that the position of the arm bracket differs slightly between welded and bolted frames. For welded frames, the distance between the top of the frame and the top of the arm bracket is 0.276".

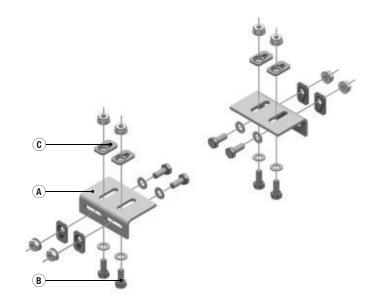
CROSS AISLE BRACKET KITS

In order to facilitate the ordering process, cross aisle bracket TD U kits have been created. These kits include the following components:

- A. (2) Arm Brackets (arm portal U, T0032605).
- B. (8) W\s^6 x \s^4'' D933 G5 B TE1A Bolts (T0032927).
- C. (8) Washer Cup Foot Plate TD UU (T0043168).

Cross Aisle Bracket TD U Kits						
Part Description	Part Number					
Cross Aisle Bracket TD U Kits	T0053805					





CROSS AISLE POST IE070F N

The components of the cross aisle ties are: POST IE070F N (Family code IKP070F, for frames 2.7_F and 2.9_F) Profile available in different lengths in 2" increments. They should be attached to the cross bracket using two $\frac{5}{6}$ " diameter x $\frac{3}{4}$ " long grade 5 bolts on each side. Standard posts matching the upright model are typically used. Adding 6" (or rounding to the next whole foot) to aisle width allows for variance/modification in the field. They have a vista green finish.



Post IE070F N / Family code IKP070F

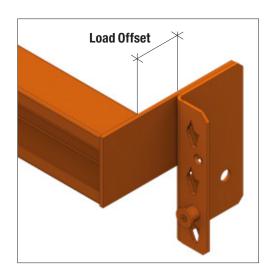
WELDED FRAME PALLET STOPS

BACKSTOP

The backstop is a single piece that does not require accessories, since it is directly fastened to the uprights with a piston-lock at each end.

- Must be installed 12" from the top of the support load beam.
- Standard overhangs: 0", 3", 4" and 6"
- Standard lengths: 48", 96", 108", 120" and 144"
- For other bay widths, back stops can be ordered as VL using Family Codes: LATF3M0, LATF3M3, LATF3M4 & LATF3M6.

Backstop Part Numbers							
Part Number	Length	Load Offset	Family	Part Number	Length	Load Offset	Family
U0201070	48"			U0201076	48"		
U0201071	96"			U0201077	96"		
U0208330	108"	0"	LATF3M0	U0208334	108"	0" ≤ 4"	LATF3M4
U0208331	120"			U0208335	120"		
U0201072	144"			U0201078	144"		
U0201073	48"			U0201079	48"		
U0201074	96"			U0201080	96"		
U0208332	108"	0"≤3"	LATF3M3	U0208336	108"	0"≤6"	LATF4M6
U0208333	120"			U0208337	120"		
U0201075	144"			U0201081	144"		







Selective Roll Formed Beams and Frames

PALLET STOP BRACKETS

Pallet stops provide a safety stop to keep pallets properly positioned on the beams in a system. They connect directly to welded frames and support a 3" x 15/8" rail section.

PALLET STOP BRACKETS FOR 3" POSTS

Ships with:

- A. $(4)^{7}/_{16}$ "-14 x 3 $^{3}/_{4}$ " bolts (U0074667).
- B. (4) ⁷/₁₆"-14 flanged locknuts (U0074690).

 $3'' \times 1^{5}$ %" or $3'' \times 3''$ DR rail is to be used as the rail stop. Length is ordered in even inches.

• Available in a standard orange finish.

PALLET STOP BRACKETS FOR 4" POSTS

Ships with:

- A. (2) 7/16"-14 x 4 3/4" bolts (U0074670).
- B. (4) 7/16"-14 flanged locknuts (U0074690).
- C. (2) 7/16"-14 x 3 3/4" bolts (U0074667).

 $3'' \times 15/8''$ or $3'' \times 3''$ DR rail is to be used as the rail stop.

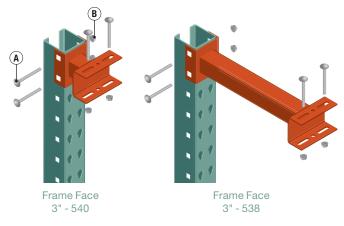
• Available in a standard orange finish.

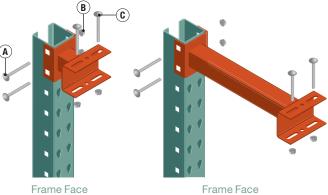
Pallet Stop bracket sets for 3" posts							
Part Number	Model	Length					
U0076630	540	1/4"					
U0076631	540	1"					
U0076632	540	2"					
U0076570	538	3"					
U0076571	538	4"					
U0076572	538	5"					
U0076573	538	6"					
U0076574	538	8"					
U0076575	538	12"					

Pallet Stop bracket sets for 4" posts							
Part Number	Model	Length					
U0094045	525	1/4"					
U0094046	525	1"					
U0094047	525	2"					
U0094022	524	3"					
U0094024	524	4"					
U0094025	524	5"					
U0094026	524	6"					
U0094027	524	8"					
U0094028	524	12"					

Length Limits	1	2	3-5	6	7-11	12	Post Size	
hs ≥1/4" - <2"	I	Α	540	W		R	3"	
For lengths ≥2" - <12"	- 1	Α	538	W		R	ა	
For lengths ≥1/4" - <2"	I	Α	525	W		R	4"	
For lengths ≥2" - <12"	I	Α	524	W		R	4**	

02 DR Rail Part Numbers						
Part Number	Family					
U0072691	Profile IK025R 98"					
U0072692	Profile IK025R 110"	IKIEOOED				
U0075693	Profile IK025R 117"	IKIE025R				
U0072694	Profile IK025R 146"					





ORDERING PALLET STOP DR RAIL

4" - 525

• For bays with even inch center to center of frames, order standard DR-rail with length equal to bay center. e.g. 96" bay + 4" column = 98" center to center use one 98" DR Rail per shelf.

4" - 524

- For bays with odd inch center to center of frames, order standard DR-rail with length equal to bay center minus 1".
- e.g. 96" bay + 3" column = 99" center to center use one 99" 1" = 98" DR Rail per shelf.
- Other lengths must be ordered in 2" increments using family code IKIEO25R, minimum 12", maximum 280".



Product Support GuideSelective Roll Formed Beams and Frames

WELDED FRAME REEL HOLDERS

Reel holders allow large spools of material to be stored in a system.

REEL HOLDER SETS

Ships with:

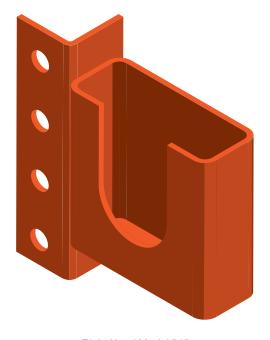
(2) ⁷/₁₆"-14 x 1" Bolts - (U0074664).

 $(2)^{7}/_{16}$ "-14 Flanged Locknuts - (U0074690).

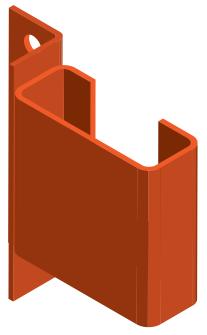
- Order left hand and right holders separately.
- Available in a standard orange finish.
- Requires Reel holder bases.

Reel Holder Sets Product Codes										
	Interlake Mecalux	Item	Style Style Height / Code (in) Color Weight (lbs.) Part Number Capacity (lbs)					For Axle Max 0.D.		
Code Position	1	2	3-5	6	7-11	12	We	Pai	Pa Ca	
Right Hand	I	Α	545	Н	00000	R	4	U0094090	3,500 lbs./pair	2 3/8"
Left Hand	I	Α	546	Н	00000	R	4	U0094091	3,500 lbs./pair	2 3/8"

These capacities assume that all component parts used are (1.) Manufactured by Interlake Mecalux (2.) In good condition (3.) Properly installed.



Right Hand Model 545



Left Hand Model 546



Selective Roll Formed Beams and Frames

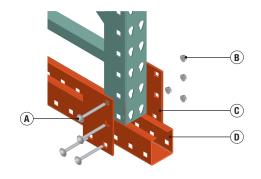
REEL HOLDER BASE ASSEMBLY SETS

2.7_F frames require no footplate for this application.

Contact your Sales Representative or Interlake Mecalux Engineering for specifics of this application.

Single and Double Entry sets will ship with the following hardware:

- A. $(8)^{7}/_{16}$ "-14 x 3 $^{3}/_{4}$ " bolts (U0074667).
- B. (8) ⁷/₁₆"-14 nuts (U0074690).
- C. (4) connector plates (U0094215).
- D. (1) Base Rail (IA828H for single entry, IA829H for double entry).
- (1 for single entry, 2 for double entry) $\frac{1}{2}$ "-13 x 3 $\frac{3}{4}$ " anchor (U0074582).



Single Entry Reel Holder Sets						
Part Number	Length					
U0094224	St.Base IA825H SINGLE ENTRY	36"				
U0094225	St.Base IA825H SINGLE ENTRY	42"				
U0094226	St.Base IA825H SINGLE ENTRY	44"				
U0094227	St.Base IA825H SINGLE ENTRY	48"				

NOTE: Per the update in width of the standard footplates of 1907_F frames in 2021, the frames that are mounted on these bases cannot have a footplate to avoid interference.

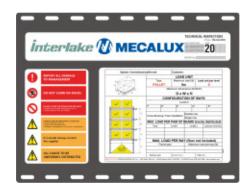
Double Entry Reel Holder Sets						
Part Number	Length					
U0094228	St.Base IA827H DOUBLE ENTRY	36"				
U0094229	St.Base IA827H DOUBLE ENTRY	42"				
U0094230	St.Base IA827H DOUBLE ENTRY	44"				
U0094231	St.Base IA827H DOUBLE ENTRY	48"				

Model 825 Single Entry Reel Holder Base



RMI SIGN (U0080793)

RMI signs are commonly placed at the end of aisles to alert personnel of the warehouse or storage facility that would be loading/offloading material of the capacity limits of the pallet racking per the current RMI standards. Each sign is $15^34'' \times 12^34'' \times 12^34'$





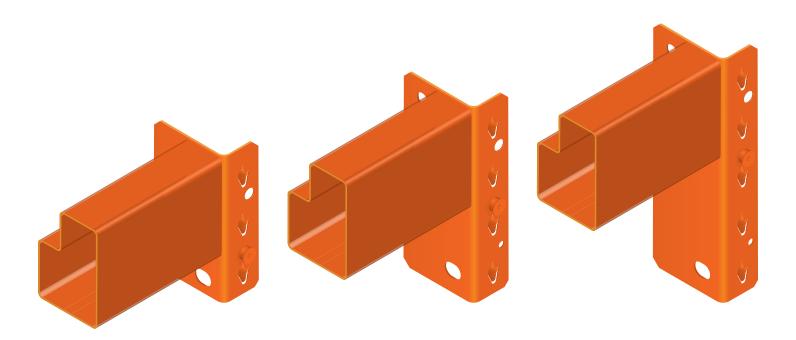
ROLL FORMED BEAMS

OVERVIEW

Roll formed beams are the horizontal elements of the rack on which loads are placed. Formed from one roll formed piece of steel, with a continuous seam weld on its base.

Available in different sizes, roll formed beams have welded end plates, which slot into the tear drop shaped holes located on the face of the frames. They are held to the frames using two safety, spring loaded locking devices per beam (one on each end plate).

Each load level is formed by two beams, one beam at each post of the frame.





Selective Roll Formed Beams and Frames

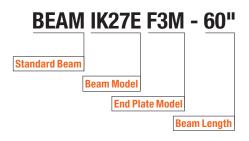
PRODUCT CODE DESCRIPTION

Standard beams are manufactured in even 12" increments. Custom options are available. **Contact your Interlake Mecalux representative for more information.**

- Standard color is orange RAL-2001.
- Interlake Mecalux now offers a new style of end plate with tabs, making the end plate from one solid piece instead of riveting on pins during the manufacturing process. This changes the product code to have a "T" in slot six. Contact your Interlake Mecalux representative for more information.
- Slotted beams allow for several accessories to latch onto the beam to prevent them from sliding or being dislodged. See pages 76-77 or contact your Interlake Mecalux representative for more information.
- The standard for all beams is to have it flush with the top of the end plate. Custom drop options are available. **Contact your Interlake Mecalux representative for more information.**

Beams with Tabbed End Plates						
Beam	Length Minimum	Length Maximum				
27E, 27ER	30"					
36E, 36ER		168"				
40E, 40ER						
45E, 45ER						
50E, 50ER	36"	100				
59E, 59ER						
65E, 65ER						
65Q, 65QR						

IB27ET07200R	CA	2000
Standard Beam		
Beam Model: 27E, 36E, 40E, 45E, 50E, 59E, 65E and 65Q		
Tab End Plate		
Length of Beam (in)		
Color R = Orange		
C: 6", 3-Tabs End Plat R: 8", 4-Tabs End Plat		
S: 10", 5-Tabs End Pla		
Weld	I Т уре	
2: U	nslott	ed
4: S	lotted	
		Drop



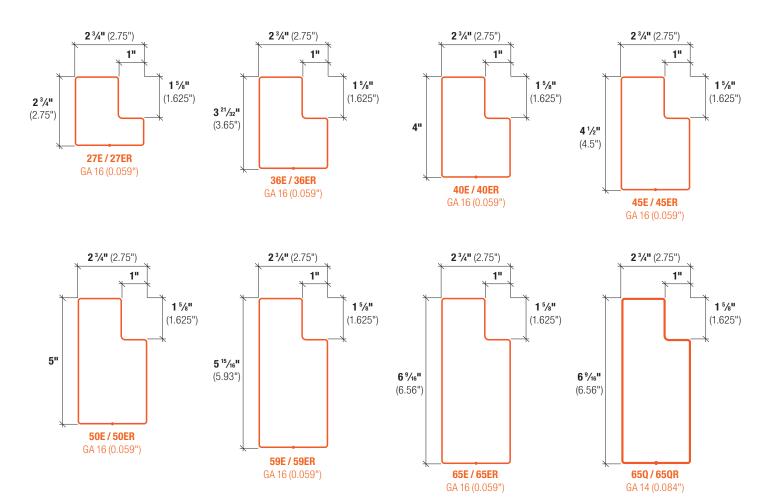
Uı	nslotted (E, Q) Beam Famil	y Codes	Slotted (ER, QR) Beam Family Codes			
Beam	Description	Family	Beam	Description	Family	
27E	BEAM IK27E F3M	LIK27E3	27ER	BEAM IK27ER F3M	LIK27ER3	
36E	BEAM IK36E F3M	LIK36E3	36ER	BEAM IK36ER F3M	LIK36ER3	
40E	BEAM IK40E F4M	LIK40E4	40ER	BEAM IK40ER F4M	LIK40ER4	
45E	BEAM IK45E F4M	LIK45E4	45ER	BEAM IK45ER F4M	LIK45ER4	
50E	BEAM IK50E F4M	LIK50E4	50ER	BEAM IK50ER F4M	LIK50ER4	
59E	BEAM IK59E F5M	LIK59E5	59ER	BEAM IK59ER F5M	LIK59ER5	
65E	BEAM IK65E F5M	LIK65E5	65ER	BEAM IK65ER F5M	LIK65ER5	
65Q	BEAM IK65Q F5M	LIK65Q5	65QR	BEAM IK65QR F5M	LIK65QR5	



Selective Roll Formed Beams and Frames

BEAM PROFILES

Interlake Mecalux beams come in several different sizes that all maintain a similar "L" shaped profile. See the options below or contact your Interlake Mecalux representative for more information, they will appear as characters 3 - 5 in the 18 digit product code.



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Product Support Guide Selective Roll Formed Beams and Frames

END PLATES

End plates will appear as character 13 in the 18 digit product code, they are welded onto the end of beams. They provide a connec $tion\ between\ the\ beam\ and\ the\ column\ of\ a\ system.\ The\ piston\ lock\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ the\ beam\ and\ system\ provides\ a\ secure\ connection\ that\ prevents\ prevents\ that\ prevents\ from disengaging, even when contacted by a forklift truck. Interlake Mecalux offers three different options of end plate for selective beams.

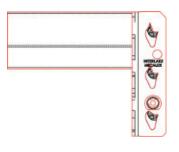
F3M (C)

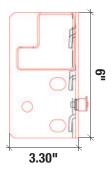
6". 3-tab model.

GA 16 (0.059")

Available for 27E and 36E beams.







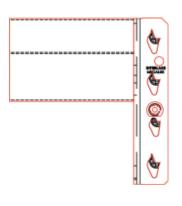
F4M(R)

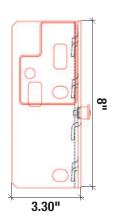
8", 4-tab model.

GA 16 (0.059").

Available for 40E, 45E and 50E beams.







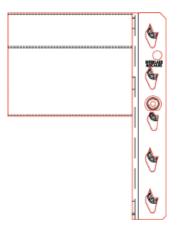
F5M(S)

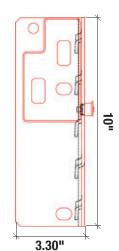
10", 5-tab model.

GA 16 (0.059") 59E and 65E beams.

GA 14 (0.084") 65Q beams only.







Previous models of Interlake Mecalux selective pallet rack end plates are no longer available.

If you have any questions, please contact your Interlake Mecalux representative.

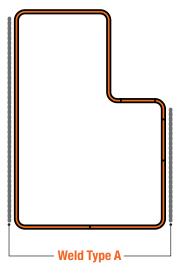
Selective Roll Formed Beams and Frames

BEAM-END PLATE WELD

Beams are welded to the end plates by AWS certified welding technicians. Under normal, as well as most seismic conditions in conjunction with the Interlake Mecalux end plate, the "A" weld is sufficient and appears as character 14 in the 18 digit product code. The end plates are welded to the beam along the front and rear face of the beam edge.

WELD TYPE A

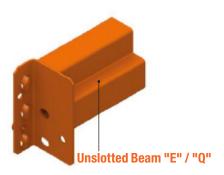
- Lateral 1/8" (0.125") weld.
- Front and rear faces.
- · Typical weld.



UNSLOTTED BEAMS (E, Q) AND SLOTTED BEAMS (ER, QR)

Beams are available in unslotted (2) or slotted (4) styles. Both styles are roll formed with a continuous weld on the base as well as a 1 5/8" step profile and will appear as character 15 in the 18 digit product code. Slotted styles also include slotted holes located at 1" intervals for the easy placement and connection of various accessories such as roll-in crossbars.

- Steel thickness is 0.059" (16GA) for all beam types except for the 65Q beam, which is 0.084" (14GA).
- All of the models have a 1 5/4" (1.625") step.
- Slotted styles have slots at 1" increments for easy, flexible placement of accessories.
- Available in standard orange (RAL-2001) finish.





Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

BEAM DROP OPTIONS

The drop will appear as characters 16-18 in the 18 digit product codes. Other drops are available upon request and special approval.

STANDARD 0 DROP (0.00")

Beam is flush with top of connecting end plate.

TYPE 2 DROP (2.00")

Beam is welded 2'' down from the top of the connecting end plate. This is a custom option.





0.00" Beam Drop

2.00" Beam Drop

MINIMUM BEAM ELEVATION (SELECTIVE APPLICATIONS)

Based on various parameters: Beam End Plate, Frame Model and Foot Plate. There is a minimum standard elevation that Interlake Mecalux beams can have when connected to either bolted for welded frames. Note that the following elevations are considering a standard beam drop of "0", custom and special drops can lower the beam position.

Minimum Beam Elevation on Welded Frames							
End Plate	Welded Frame	Foot Plate	Minimum Elevation	Foot Plate	Minimum Elevation		
F3M	19070F, 19075F, 19077F, 19079F	Standard "0"	8"	J/M/	8"		
FOIN	19095F, 19099F	Standard 0	6"	JF/MF	0		
F4M	19070F, 19075F, 19077F, 19079F	Standard "0"	10"	J/M/ JF/MF	10"		
F4IVI	19095F, 19099F	Standard 0	8"				
FEM	19070F, 19075F, 19077F, 19079F	Standard "0"	12"	J/M/	10"		
F5M	19095F, 19099F	Stanualu U	10"	JF/MF	12"		



	Minimum Beam Elevation on Bolted Frames								
End Plate	Bolted Frame	Foot Plate	Minimum Elevation	Foot Plate	Minimum Elevation	Foot Plate	Minimum Elevation	Foot Plate	Minimum Elevation
FOM	315	U 077/080	10"						
F3M	314, 312, 4B101, 4B102, 5B122	Heavy FP U	10"	BM/BJ/FM /FJ/R2T	12"	R1T	10"	PP / PP 8X8	8"
E4N4	315	U 077/080	12"						
F4M	314, 312, 4B101, 4B102, 5B122	Heavy FP U	12"	BM/BJ/FM /FJ/R2T	14"	R1T	12"	PP / PP 8X8	10"
FEM	315	U 077/080	14"						
F5M	314, 312, 4B101, 4B102, 5B122	Heavy FP U	14"	BM/BJ/FM /FJ/R2T	16"	R1T	14"	PP / PP 8X8	12"



Selective Roll Formed Beams and Frames

BEAM WITH TAB END PLATE CAPACITY CHART: 27E - 65Q, 48"- 168"

	Slotted and Unslotted Step Beam Capacities (lbs per pair)							
Cnon	27E / 27ER	36E / 36ER	40E / 40ER	45E / 45ER	50E / 50ER	59E / 59ER	65E / 65ER	65Q / 65 QR
Span	F3M - 6" 3 T	ab End Plate	F	1M - 8" 4 Tab End Pla	te	F	5M - 10" 5 Tab End F	Plate
48"	5,610	8,050	9,810	11,090	12,880	16,910	17,115	27,940
54"	5,080	7,230	8,830	9,950	11,530	15,140	17,110	24,940
60"	4,640	6,570	8,040	9,050	10,460	13,720	15,850	22,540
66"	4,290	6,030	7,390	8,300	9,580	12,560	14,480	20,570
72"	3,990	5,590	6,850	7,680	8,850	11,590	13,360	18,940
78"	3,510	5,210	6,390	7,150	8,220	10,780	12,400	17,550
84"	3,080	4,880	6,010	6,700	7,690	10,080	11,580	16,370
92"	2,630	4,510	5,560	6,190	7,090	9,280	10,650	15,030
96"	2,440	4,170	5,370	5,960	6,820	8,940	10,240	14,430
102"	2,200	3,740	4,870	5,650	6,470	8,460	9,690	13,640
108"	1,990	3,370	4,390	5,380	6,150	8,040	9,190	12,920
114"	1,810	3,050	3,990	5,040	5,870	7,660	8,760	12,300
120"	1,660	2,780	3,640	4,590	5,610	7,330	8,370	11,730
126"	1,530	2,550	3,340	4,210	5,230	7,020	8,000	11,210
132"	1,410	2,350	3,080	3,870	4,800	6,740	7,680	10,750
138"	1,310	2,170	2,850	3,570	4,420	6,490	7,380	10,310
144"	1,220	2,010	2,650	3,310	4,100	6,250	7,110	9,920
150"	1,140	1,870	2,470	3,080	3,800	5,820	6,850	9,560
156"	1,070	1,740	2,300	2,870	3,540	5,420	6,630	9,040
162"	1,000	1,630	2,160	2,690	3,310	5,060	6,250	8,420
168"	940	1,530	2,030	2,520	3,100	4,740	5,840	7,870

- Capacities are according to the most important RMI guidelines and ASI MH16, 1 2012 specifications.
- Interlake Mecalux beams over 126"L require bracing to prevent buckling.
- Beams longer than 90" that support decking must be tied together to prevent spreading (IK025B crossbar).
- Loading to be uniformly distributed over the length of the beam (UDL).
- Values shown reflect the capacity of the beams based on the lesser of its strength in bending, or L/180 deflection criteria.
- Load capacities are uniformly distributed product load plus dead load per pair of beams (dead load = weight of beams).
- Capacities are valid for static loads only.
- These capacities assume that all components are: (1) Manufactured by Interlake Mecalux, (2) In good condition, (3) Properly installed.



Selective Roll Formed Beams and Frames

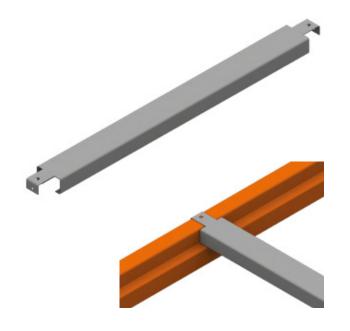
PALLET SUPPORTS

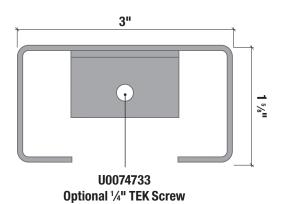
DOUBLE FLANGED PALLET SUPPORT CROSSBAR IKO04B

Crossbars are positioned between two beams to assist in supporting pallet loads. Flanged crossbars hang over the edge of beams and are available for use with unslotted or slotted beams. Beams longer than 126" require bracing to prevent buckling.

- $\bullet\,$ Can be secured to beam with optional tek screw (U0074733 x 2 per crossbar).
- Available in a standard pre-galvanized or orange (RAL-2001) finish.
- Available lengths range from 24" to 72" in 1" increments, other lengths can be created using family code IKIA004.

IK004B Double Flanged Pallet Supports							
Size	Pre-Galvanized Part Number	Orange (RAL-2001) Part Number					
36"	U0072728	U0111329					
42"	U0072729	U0082582					
44"	U0072730	U0111330					
48"	U0072731	U0082583					





	IK004B Double Flanged Pallet Support Capacities*						
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)
24"	2,473	38"	1,454	52"	1,003	66"	598
26"	2,248	40"	1,373	54"	924	68"	560
28"	2,061	42"	1,300	56"	854	70"	526
30"	1,902	44"	1,235	58"	791	72"	495
32"	1,766	46"	1,175	60"	735		
34"	1,648	48"	1,122	62"	685		
36"	1,545	50"	1,073	64"	639		

- No impact loading is included on this chart.
- Capacities are uniformly distributed product load plus dead load per each crossbar.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.





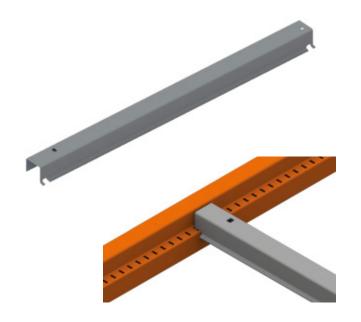
Selective Roll Formed Beams and Frames

ROLL IN PALLET SUPPORT CROSSBAR IK025B

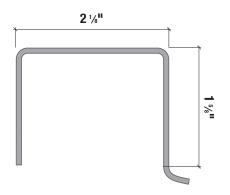
The roll in pallet support crossbar is placed perpendicular to the beams and rolls into place which requires the use of Slotted beams.

For beams longer than 90" that support decking, one crossbar IKO25B per shelf is recommended to prevent spreading.

- Requires beams to be slotted (ER, QR).
- Available in a standard pre-galvanized or orange (RAL-2001) finish.
- Available lengths range from 24" to 72" in 1" increments, other lengths can be created using family code IKIAO25.



IK025B Roll In Pallet Supports							
Size	Pre-galvanized Part Number	Orange (RAL-2001) Part Number					
36"	U0072732	U0111328					
42"	U0072733	U0082548					
44"	U0072734	U0082546					
48"	U0072735	U0082549					



	IK025B Roll In Pallet Support Capacities*							
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	
24"	1,489	38"	875	52"	618	66"	459	
26"	1,353	40"	826	54"	593	68"	430	
28"	1,241	42"	782	56"	570	70"	404	
30"	1,145	44"	743	58"	548	72"	380	
32"	1,063	46"	707	60"	528			
34"	992	48"	675	62"	510			
36"	930	50"	645	64"	490			

- No impact loading is included on this chart.
- Capacities are uniformly distributed product load plus dead load per each crossbar.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.

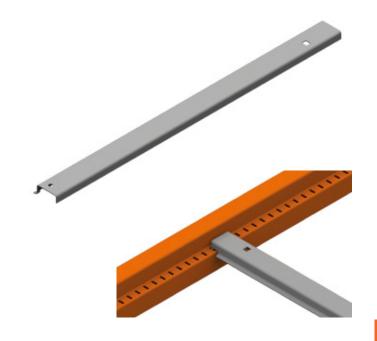


Selective Roll Formed Beams and Frames

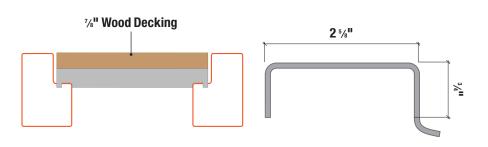
LOW PROFILE ROLL IN PALLET SUPPORT CROSSBAR IK035B

The low profile roll in pallet support crossbar is placed perpendicular to the beams and rolls into place which requires the use of Slotted beams.

- Requires beams to be slotted (ER, QR).
- To be used with \(^1/\exists^{11}\) (0.875") wood decking.
- Available in standard pre-galvanized finish.
- Available lengths range from 24" to 72" in 1" increments, other lengths can be created using family code IKIAO35.



IK035B Roll In Pallet Supports					
Size	Pre-galvanized Part Number				
36"	U0072736				
42"	U0072737				
44"	U0072738				
48"	U0072739				



	IK025B Roll In Pallet Support Capacities*							
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	
24"	740	34"	480	44"	290	66"	120	
26"	670	36"	450	46"	270	72"	100	
28"	610	38"	410	48"	240			
30"	560	40"	360	54"	190			
32"	520	42"	320	60"	150			

- No impact loading is included on this chart.
- Capacities are uniformly distributed product load plus dead load per each crossbar.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.





Selective Roll Formed Beams and Frames

SHELF PANELS

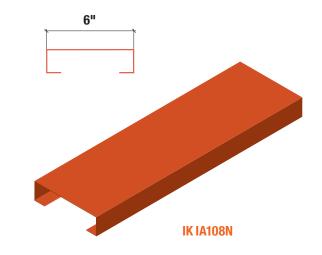
Load levels can be equipped with shelves where storage needs require them.

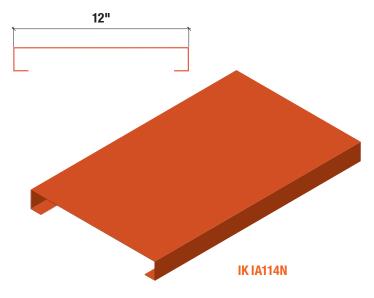
SHELF IK IA108N (6") AND IK IA114N (12")

The shelf panels are placed perpendicular to the beams and will sit inside of the beam's 1^5 %" step ledge. The lower brims are folded inwards and their edges are blunt in order to protect hands in case of contact.

- Available in a standard orange (RAL-2001) finish.
- Shelf length will equal frame depth minus 3 3/4".
- Both shelf dimensions can be combined.

	IK IA108N Shelf Panel	IK IA114N Shelf Panel
	6" wide	12" wide
Size	Part Number	Part Number
24"	U0074348	U0074365
26"	U0074349	U0074366
28"	U0074350	U0074367
30"	U0074351	U0074368
32"	U0074352	U0074369
34"	U0074353	U0074370
36"	U0074354	U0074371
38"	U0074355	U0074372
40"	U0074356	U0074373
42"	U0074357	U0074374
44"	U0074358	U0074375
46"	U0074359	U0074376
48"	U0074360	U0074377
54"	U0074361	U0074378
60"	U0074362	U0074379
66"	U0074363	U0074380
72"	U0074364	U0074381









Product Support GuideSelective Roll Formed Beams and Frames

SHELF PANELS IK IA108N (6") AND IK IA114N (12") CAPACITY CHARTS

	Shelf Panels IK IA108N and IK IA114N Capacities*							
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)	
24"	1,000	34"	1,000	44"	1,000	66"	675	
26"	1,000	36"	1,000	46"	1,000	72"	600	
28"	1,000	38"	1,000	48"	950			
30"	1,000	40"	1,000	54"	850			
32"	1,000	42"	1,000	60"	750			

- Capacity values are per individual shelf.
- Take into account that a slotted beam will be used when beam length is over 90" with one IK025B Crossbar.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.





Interlake MECALUX

Product Support Guide

Selective Roll Formed Beams and Frames

SHELF L-US U (6" AND 12")

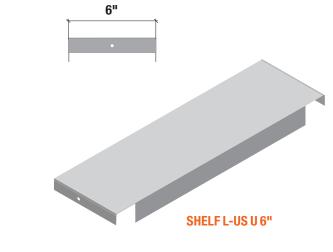
The shelf panels are placed perpendicular to the beams and will sit inside of the beam's $1^5\%$ " step ledge and have a bend that will go over. They also have a flange that will hang over the edge of beams and are available for use with slotted or unslotted beams.

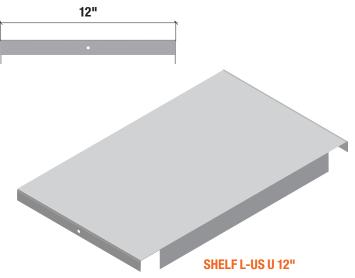
- Available in a standard pre-galvanized finish.
- Gauge 18 (0.04") thick.

	Shelf L-US U				
	6" wide	12" wide			
Size	Part Number	Part Number			
36"	T0055491	T0055487			
42"	T0055492	T0055488			
48"	T0055494	T0055490			

Shelf L-US U Capacities*		
6" or 12" wide		
Frame Depth	Capacity (lbs)	
36"	771	
42"	551	
48"	440	

- Capacity values are per individual shelf.
- Capacities are uniformly distributed product load plus dead load per each crossbar.
- These capacities assume that all component parts are:
- (1) Manufactured by Interlake Mecalux.
- (2) In good condition.
- (3) Properly installed.







Interlake Mecalux

Product Support GuideSelective Roll Formed Beams and Frames

FORK CLEARANCE BAR IK IA300F

Fork clearance bars are positioned perpendicularly to the beams, elevating the load by 2" above the beam's level. The sizes have been standardized for frame depths of 24", 36", 42", 44" and 48".

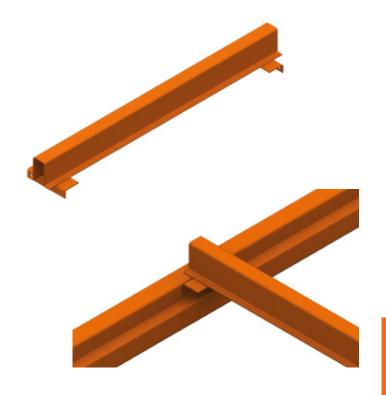
- Beams need to be checked to accommodate point loads.
- Can be secured to beam with optional tek screw (U0074733 \times 2 per crossbar).
- Available in a standard orange (RAL-2001) finish.

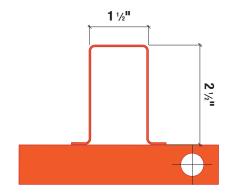
IK IA300F Fork Clearance Bars		
Size	Part Number	
24"	U0107876	
36"	U0107877	
42"	U0107878	
44"	U0107879	
48"	U0107880	

IK IA300F Fork Clearance Bar Capacity*			
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)
24"	2,640	42"	1,420
26"	2,410	44"	1,350
28"	2,200	46"	1,290
30"	2,050	48"	1,230
32"	1,910	54"	1,090
34"	1,790	60"	970
36"	1,680	66"	880
38"	1,580	72"	810
40"	1,500		

*NOTF:

- There is no impact loading included in this chart.
- Capacity values are for each Fork Clearance Bar IK IA300F.
- Uniformly distributed capacities in beam charts are not valid with the use of fork clearance bars.
- Use of this accessory creates point loads on the beam, consult with your Interlake Mecalux sales representative for more information.
- These capacities assume that all component parts are: (1) Manufactured by Interlake Mecalux. (2) In good condition. (3) Properly installed.







Interlake Mecalux

Product Support Guide

Selective Roll Formed Beams and Frames

DRUM COIL BED IA402D

Drum coil beds are designed to store loads that are cylindrical and are equal to or smaller than the depth of the frame. Loads will be resting on the bed itself, and not the beams beneath it. For this reason, drum coil beds are manufactured from structural angle, which has the correct profile and strength to store the loads.

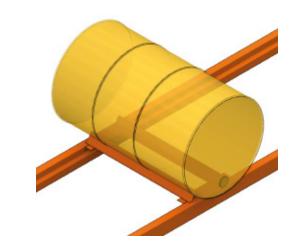
- Beams need to be checked to accommodate point loading generated by coils / drums.
- Must be fastened to the beam with tek screw (U0074733 \times 2 per crossbar).
- Maximum load diameter allowed is 22 1/2".
- Drum coil beds are available in a standard orange (RAL-2001) finish.

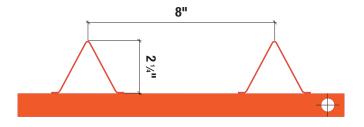
IA402D Drum Coil Bed		
Size	Part Number	
24"	U0107871	
36"	U0107872	
42"	U0107873	
44"	U0107874	

Drum Coil Bed IA402D Capacities*			
Frame Depth	Capacity (lbs)	Frame Depth	Capacity (lbs)
24"	3,300	42"	1,780
26"	3,020	44"	1,700
28"	2,780	46"	1,620
30"	2,570	48"	1,550
32"	2,390	54"	1,370
34"	2,240	60"	1,230
36"	2,110	66"	1,110
38"	1,990	72"	1,020
40"	1,880		

- There is no impact loading included in this chart.
- Capacity values are for each Fork Clearance Bar IK IA300F.
- Uniformly distributed capacities in beam charts are not valid with the use of fork clearance bars.
- Use of this accessory creates point loads on the beam, consult with your Interlake Mecalux sales representative for more information.
- These capacities assume that all component parts are:
- (1) Manufactured by Interlake Mecalux. (2) In good condition.
- (3) Properly installed.











Selective Roll Formed Beams and Frames

DRUM COIL CRADLE IA400D (U0112033)

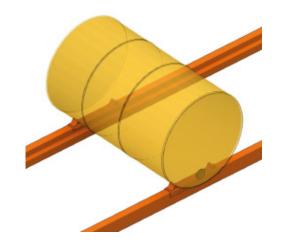
Drum coil cradles are designed to store loads that are cylindrical that are the exact length as the depth of the frame. The load being stored will not rely on the cradle for support; they will only be used to keep the load in place. Drum coil cradles are manufactured with structural angle, which has the correct profile to store the loads.

- Beams need to be checked to accommodate point loading generated by coils / drums.
- Set includes (2) cradles (U0110335).
- Requires (2) tek screws (U0074733 x 2 per cradle).
- Maximum load diameter allowed is 22 1/2".
- Available in a standard orange (RAL-2001) finish.

IA400D Drum Coil Cradle Set*			
Part Number	Description	Required Hardware (not included)	
U0112033	St.Drum Cradle IA400D	(4) Tek screws - U0074733	

- Drum Coil Cradle Sets do not include hardware.
- In order to provide maximum capacities, supporting beams must be analyzed, consult with your Interlake Mecalux sales representative for more information.













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