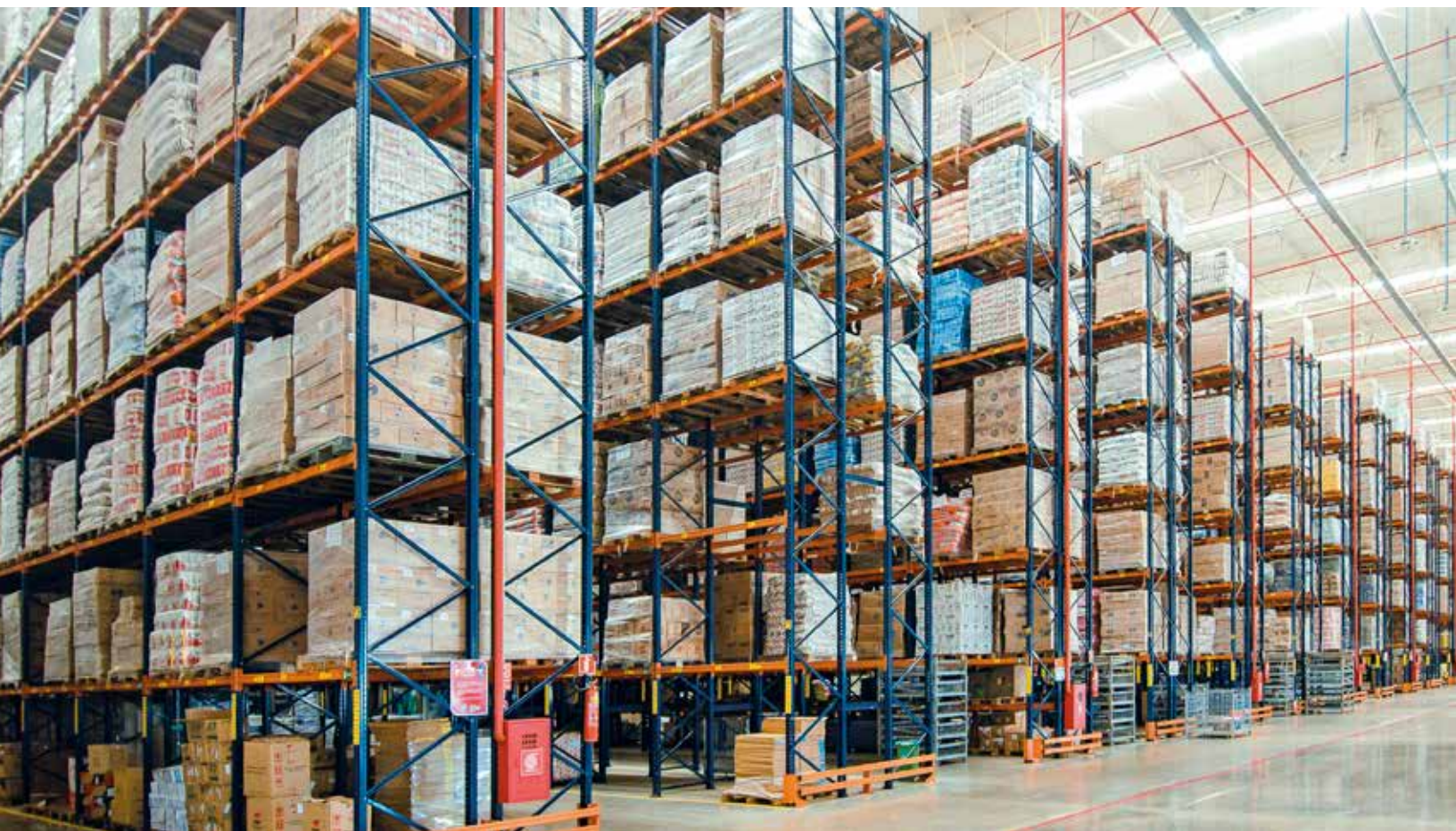




Selective Pallet Rack

The most universal system for direct and individual access to each pallet

interlake
 **MECALUX**



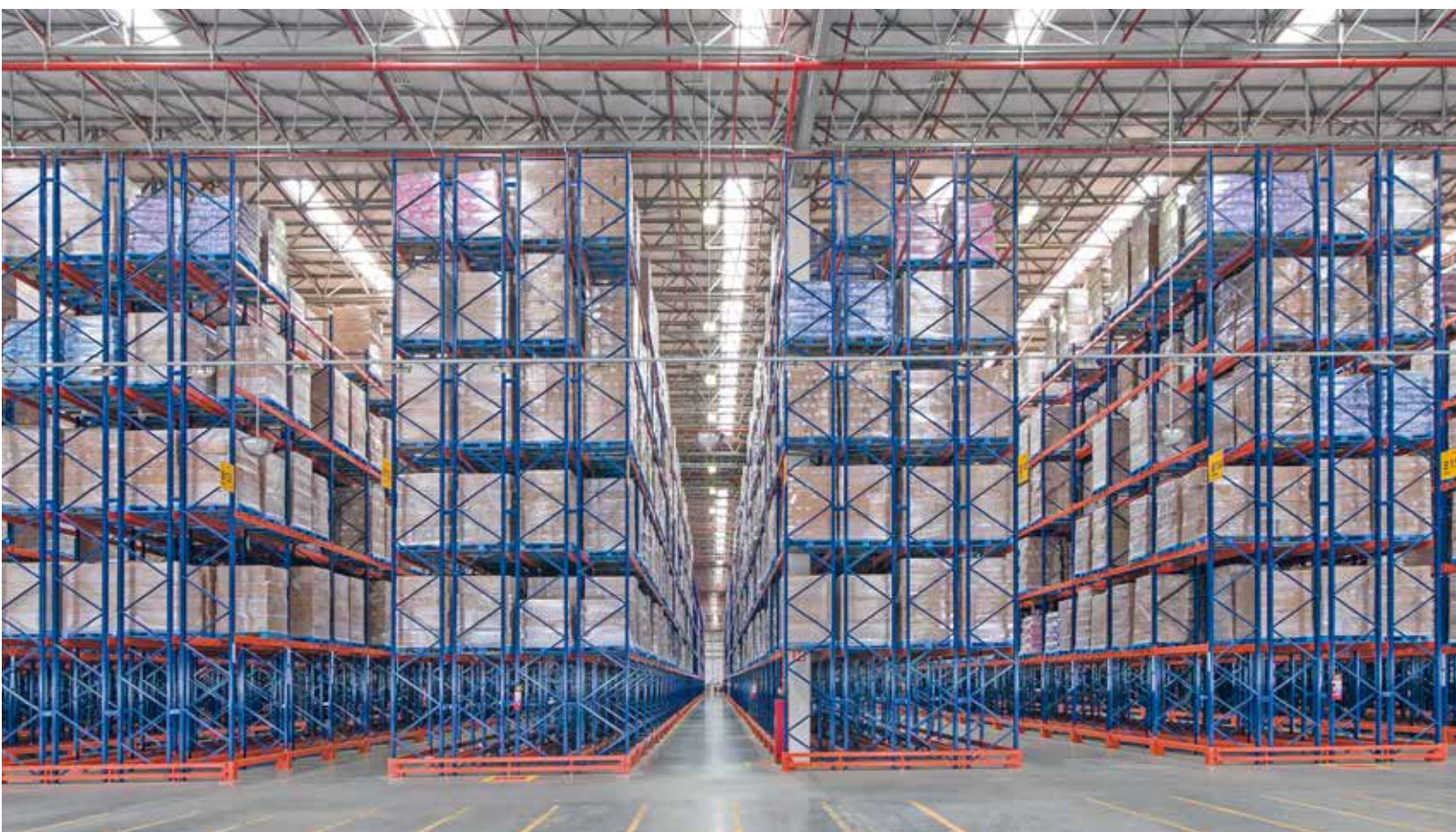
General Characteristics of Selective Pallet Rack

Combining vertical frames with horizontal load beams, Interlake Mecalux Selective Pallet Rack provides total accessibility to the product. Both popular and durable, this racking system provides versatility for warehouses that have wide varieties of product types. It is manufactured from high-strength steel and other quality raw materials, which are certified to meet our stringent specifications.

Interlake Mecalux Selective Pallet Rack is roll formed and available with bolted or welded frame configurations. Beams are mounted to the frame and held in place with a piston lock connector. This allows the beams to be seated securely without the risk of accidental disengagement and enables easy arrangement when necessary.

Layout options within the Selective Pallet Rack system

You will want to choose between a single and a double deep system configuration by first determining the variety of SKUs being stored. High volumes of a limited number of products will more likely require a double deep system that has enough capacity to store two pallets deep by reducing the number of forklift access points. The double racking or back-to-back racking of the single deep system is designed to allow forklifts easier access to a larger number of SKUs stored at half the pallet depth. With either system, you will want to utilize a forklift with the weight and reach capacity appropriate to your storage application.



Single deep Selective system

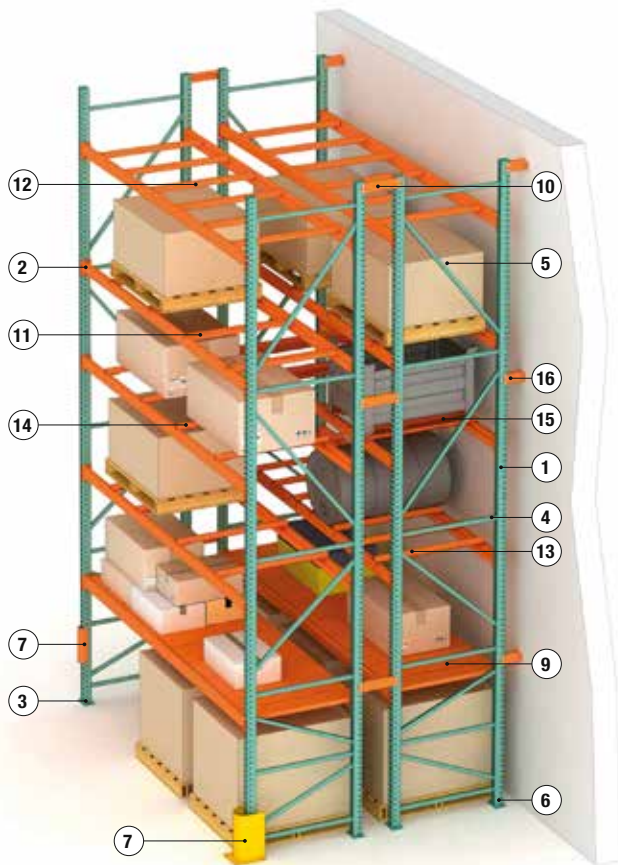


Double deep Selective system

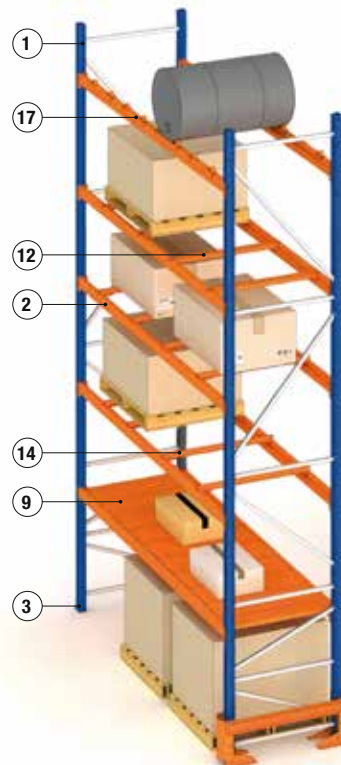


Components

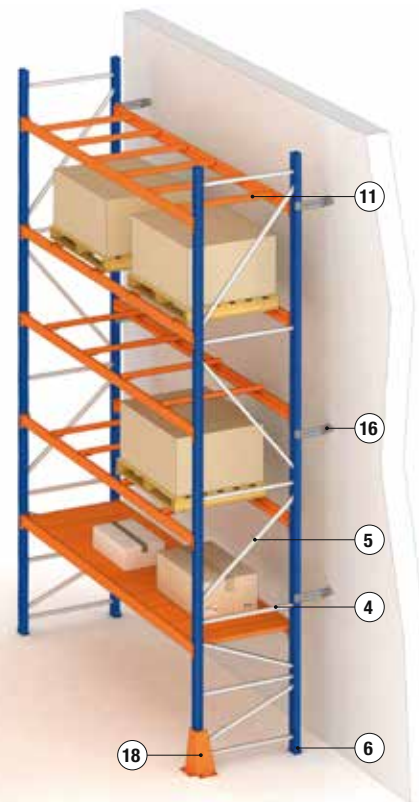
1. Frame
2. Beam
3. Foot plate
4. Horizontal strut
5. Diagonal strut
6. Shim
7. Post protector
8. End aisle protector
9. Shelf panel
10. Row spacer
11. Roll-in pallet support
12. Double flanged pallet support
13. Drum/coil bed
14. Fork clearance bar
15. Skid channel
16. Wall tie
17. Drum cradle
18. Corner protector



Welded Selective Pallet Rack



Bolted Selective Pallet Rack





Accessories

A variety of accessories are available for Selective Rack systems. From pallet supports to column protectors, Interlake Mecalux has accessories to meet any need. For a complete list of accessories, please contact your Interlake Mecalux representative.



End aisle protector



Post protector



Welded and bolted post protector



Corner protector



Welded and bolted row spacers



Welded and bolted wall ties



Double flanged pallet support



Roll in pallet support



Fork clearance bar



Shelf panel



Skid channel



Drum/coil bed



Drum cradle



Frames

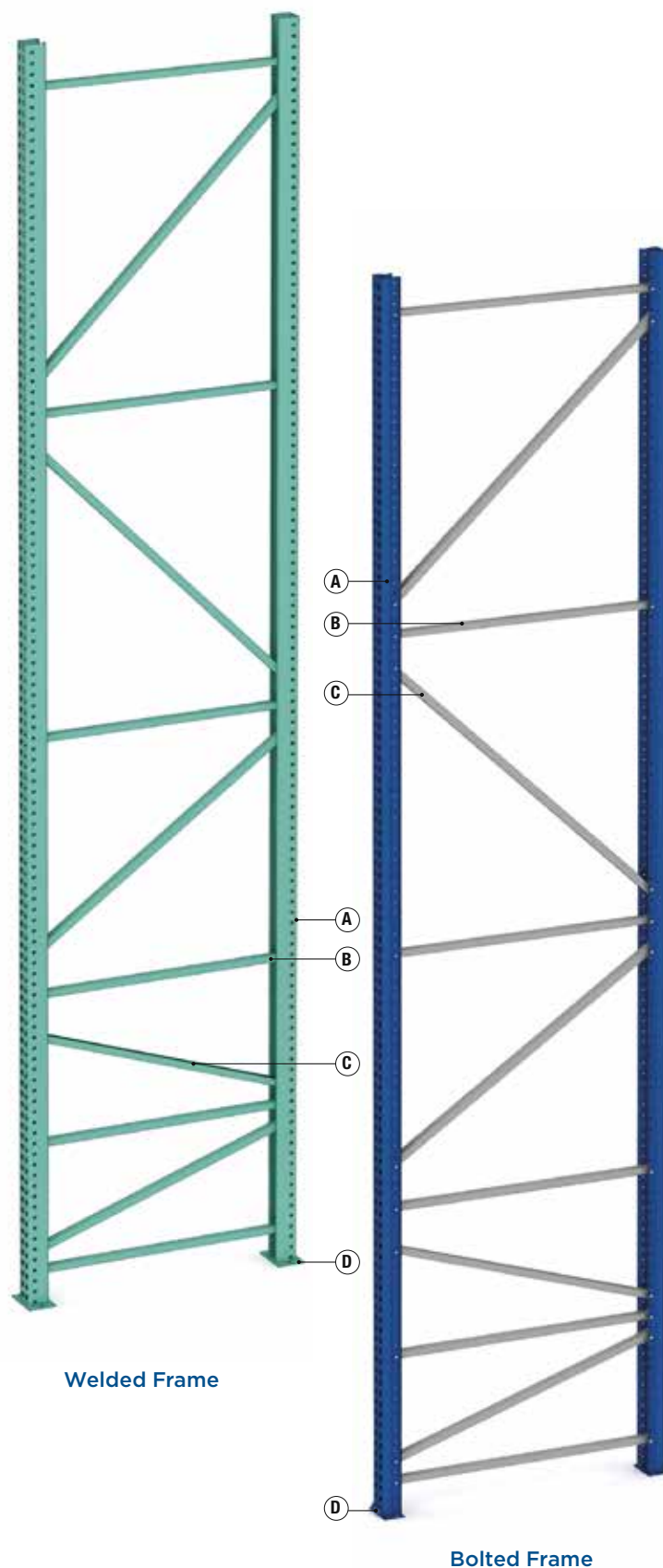
The Interlake Mecalux Selective Pallet Rack system provides an efficient use of floor space, load flexibility and easy reprofiling, all made possible through its extensive range of frame pieces and accessory components.

The frames come in two high-quality finishes. The first is a powder coated Vista Green finish and the second is a Mecalux Blue applied with a cataphoretic paint process.

Standard frames consist of two posts, horizontal and diagonal struts, and foot plates. Hole punches for beam insertion are placed along the post in 2" centers. Posts are available in a variety of gauges, lengths, configurations for seismic zones and bracing patterns made to be more resistant to twisting, separating and axial loading.

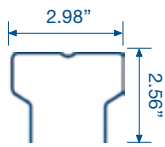
Basic Components

- A. Frame Post**
- B. Horizontal Bracing**
- C. Diagonal Bracing**
- D. Foot Plate**

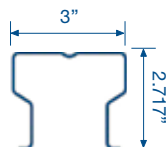


Welded Frame

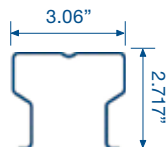
Bolted Frame



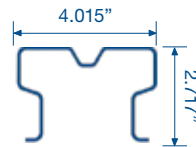
315 = 15 GA



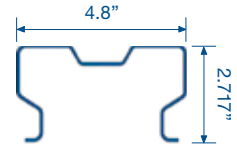
314 = 14 GA



312 = 12 GA



4B101 = 13 GA
4B102 = 12 GA



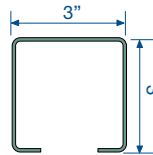
5B122 = 12 GA

BOLTED FRAME CAPACITIES (LBS)

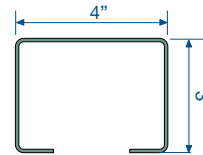
Maximum Unsupported Span (HbL)

Model	315	314		312		4B101	4B102	5B122
Gauge	15 GA (0.067")	14 GA (0.075")		12 GA (0.105")		13 GA (0.090")	12 GA (0.105")	12 GA (0.105")
Height	5" - 16'	≤ 21'	> 21'	≤ 21'	> 21'			
36"	19,855	24,571	25,847	34,514	36,322	40,800	47,800	55,000
42"	18,326	22,807	23,924	32,120	33,717	39,000	45,800	53,200
48"	16,716	20,867	21,832	30,032	30,667	36,900	43,300	51,300
54"	14,963	18,849	19,680	26,546	27,742	34,700	40,800	49,100
60"	13,310	16,849	17,563	23,670	24,694	32,400	38,100	46,800
66"	11,603	14,784	15,400	20,994	21,881	30,000	35,300	44,400
72"	9,925	12,982	13,535	18,323	19,125	27,600	32,500	41,800
78"	8,666	11,156	11,571	15,849	16,455	25,200	29,700	39,200
84"	7,493	9,758	10,075	13,875	14,340	22,800	27,000	36,700
90"	6,534	8,595	8,848	12,130	12,490	20,600	24,300	34,000
96"	5,722	7,597	7,795	10,703	10,984	18,300	21,700	31,500
102"	5,134	6,761	6,918	9,614	9,841	16,300	19,300	28,900
108"	4,619	6,086	6,216	8,596	8,782	14,600	17,200	26,500
114"	4,100	5,496	5,601	7,656	7,805	13,100	15,500	24,000
120"	3,732	4,989	5,074	6,976	7,102	11,900	14,000	21,800

070F = 14 GA
075F = 13 GA
077F = 12 GA
079F = 11 GA



095F = 13 GA
099F = 11 GA



WELDED FRAME CAPACITIES (LBS)

Maximum Unsupported Height (HbL)

Model	IK19070F		IK19075F		IK19077F		IK19079F		IK19095F	IK19099F
Gauge	14GA (0.070")		13GA (0.090")		12GA (0.105")		11GA (0.120")		13GA (0.090")	11GA (0.120")
Height	< 21'	≥ 21'	< 21'	≥ 21'	< 21'	≥ 21'	< 21'	≥ 21'		
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
60"	19.800	20.900	23.400	24.700	26.900	28.500	30.300	32.100	36.100	47.400
66"	17.700	18.700	20.900	22.100	24.000	25.400	27.000	28.500	33.900	44.300
72"	15.700	16.500	18.500	19.500	21.200	22.400	23.800	25.100	31.500	41.200
78"	13.700	14.400	16.100	17.000	18.400	19.400	20.700	21.800	29.200	38.100
84"	12.000	12.600	14.100	14.800	16.100	16.900	18.100	18.900	26.900	34.900
90"	10.600	11.000	12.400	12.900	14.200	14.800	15.900	16.600	24.500	31.900
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

HbL = Height between levels

- Capacities are according to the most important RMI guidelines and ANSI MH16, 1 2012 specifications.
- 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.



Roll Formed Beams

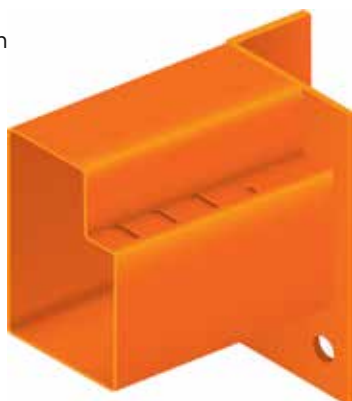
Roll formed beams are the horizontal elements of the rack on which loads are placed. Formed from one roll formed piece of steel, with a continuous seam weld on its base.

Available in different sizes, roll formed beams have welded end plates, which slot into the teardrop 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 beam beam at each post of the frame.

Slotted and Unslotted Beams

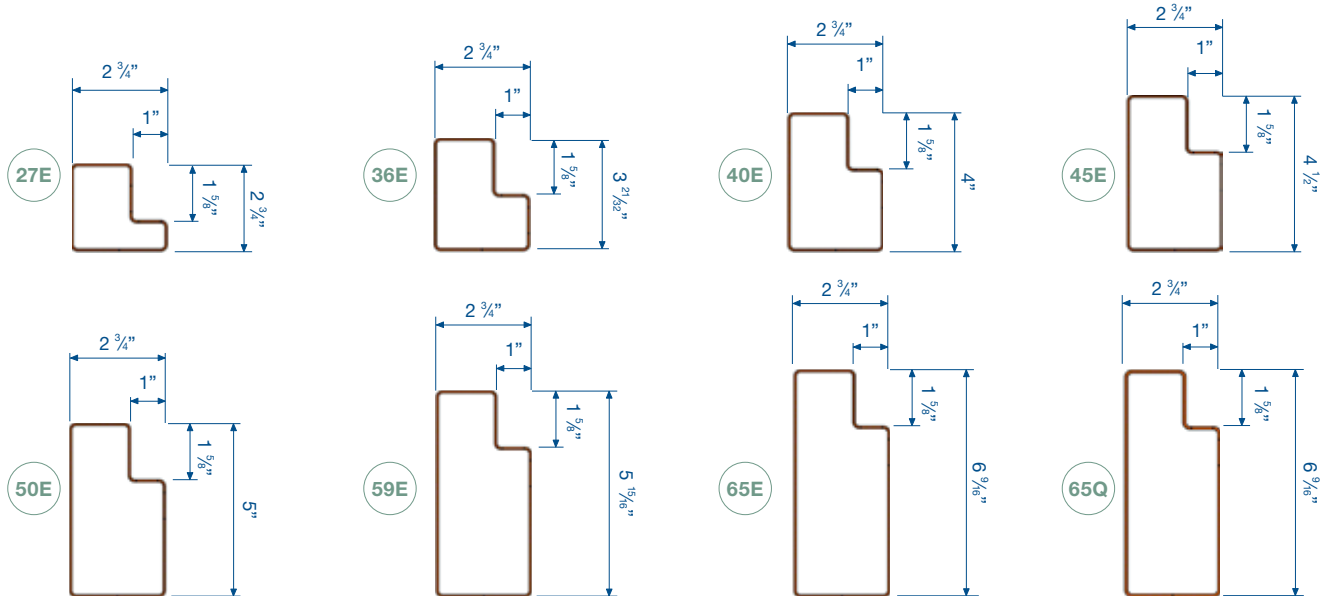
Beams are available in unslotted or slotted styles. Both styles are roll formed with a continuous weld on the base as well as a 1-5/8" step profile. Slotted styles also include slotted holes located at 1" intervals for the easy placement and connection of various accessories such as roll-in crossbars.



Slotted Beam



Unslotted Beam



BEAM CAPACITIES (LBS PER PAIR)								
	27E	36E	40E	45E	50E	59E	65E	65Q
Span	F3M - 6" 3 Tab End Plate		F4M - 8" 4 Tab End Plate			F5M - 10" 5 Tab End 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 ANSI 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.
- 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 for uniformly distributed product load plus dead load per pair of beams (dead load = weight of beams).
- 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.

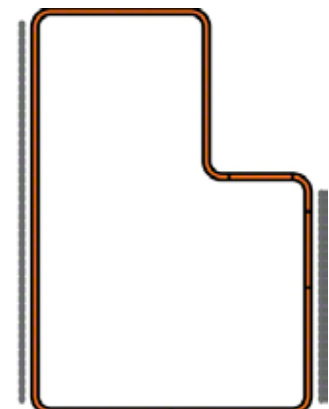
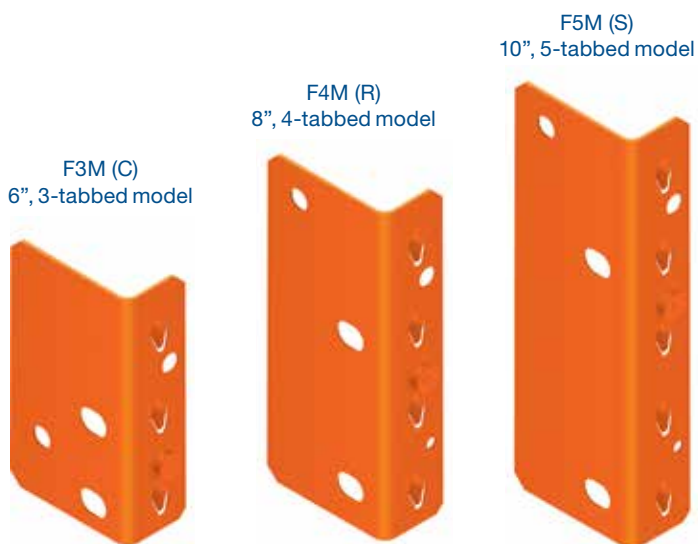


Beam End Plates

End plates are welded onto the end of beams. They provide a connection between the beam and the column of a system. The piston lock system provides a secure connection that prevents the beam from disengaging, even when contacted by a forklift truck. Interlake Mecalux offers three different options of end plate for selective beams.

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. The end plates are welded to the beam along the front and rear face of the beam edge.



Beam end plate weld

Case Study



Company INTERWORLD FREIGHT

From explosives to soy sauce, one can find a plethora of products stored inside the warehouse of Miami-based freight forwarding company Interworld Freight – a company with humble beginnings. Only a few years after establishing the company, Interworld Freight's founder, John Crespo, moved operations from Colombia to the United States. Without knowing how to speak a word of English, Crespo began serving Colombia by arranging mainly air freight from an 800-square-foot warehouse in Miami. Today, the company handles 7,000 to 8,000 containers per year mostly bound for any of some 13 destinations in Central and South America. They currently employ more than 50 people in their 30,000-square-foot warehouse.



Need

Along with Interworld Freight's rapid growth came a space crunch in its warehouse due to the increase in freight it was receiving. "We started having very critical space issues," said Farouk Gomati, vice president of the company. "You would go out to the warehouse and you literally couldn't walk in the warehouse because it was just full of freight." At one point, the situation became so bad that warehouse personnel had to stop using four of the company's six forklifts because there was no room to operate them.

"Their warehouse was chaos. They had product all over the floor," recalled Luis Jimenez, CEO of warehouse equipment supplier Atlantic Rack. At the time, warehouse personnel were using a lot of floor space because there were only a few pallet racks in place with 50 to 100 pallet positions at most.

Solution

Considering the wide variety and high rotation of products inside Interworld's warehouse, Interlake Mecalux Selective Pallet Rack was the perfect solution to the company's warehouse woes because the racking provides immediate access to every stored load. Other benefits of the racking are that it enhances space utilization, improves inventory controls and reduces damage.

Interworld Freight selected Interlake Mecalux Selective Pallet Rack with 1,346 pallet positions as well as an Interlake Mecalux Push-Back system, which considerably increased the warehouse's capacity by 35 to 38 percent, according to Jimenez.

The fact that every pallet now has a position on the Interlake Mecalux Selective rack has led to a reduction in costly errors. "My mistake or error percentage dropped so much after the whole project," Gomati said.



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