



Selective Pallet Rack

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



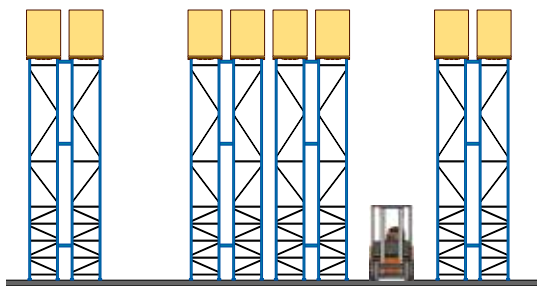
General Characteristics of Selective Pallet Rack

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.

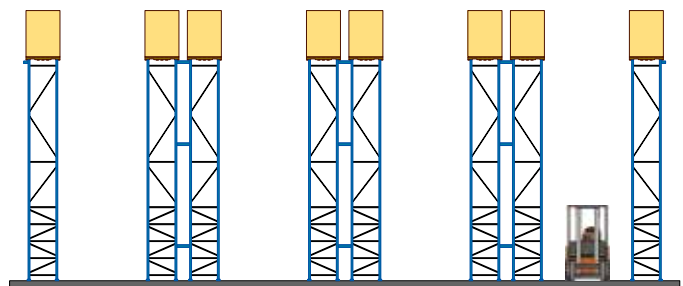
Interlake Mecalux Selective Pallet Rack is roll formed and available with bolted or welded frame configurations. Beams are mounted to the frame and held in place with a piston lock connector. This allows the beams to be seated securely without the risk of accidental disengagement and enables easy arrangement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

Layout options within the Selective Pallet Rack system

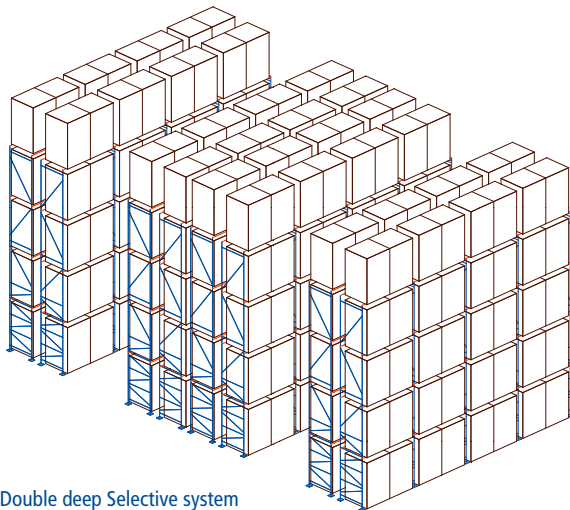
You will want to choose between a single and a double deep system configuration by first determining the variety of SKUs being stored. High volumes of a limited number of products will more likely require a double deep system that has enough capacity to store two pallets deep by reducing the number of 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.



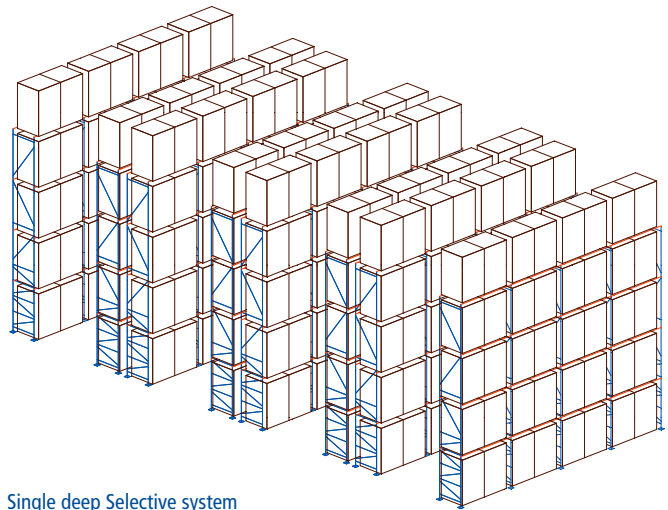
Double deep Selective system



Single deep Selective system



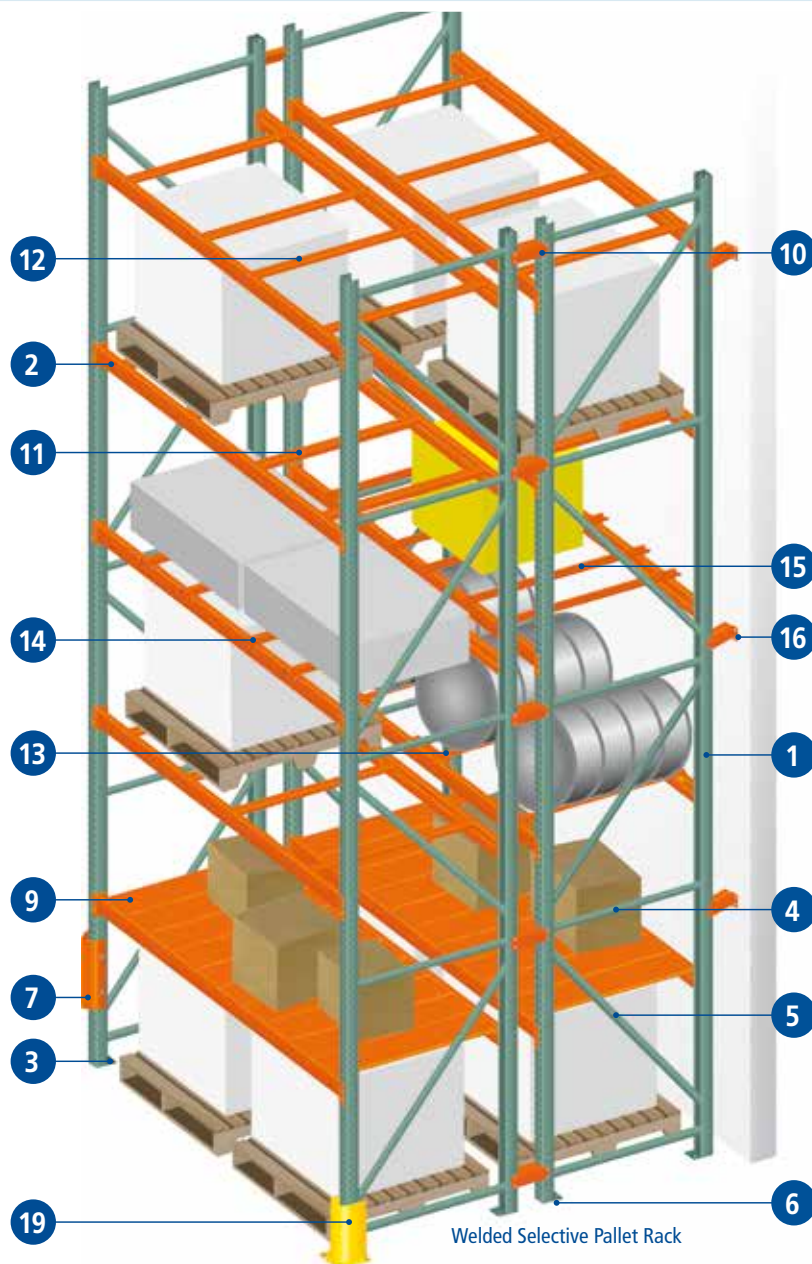
Double deep Selective system



Single deep Selective system

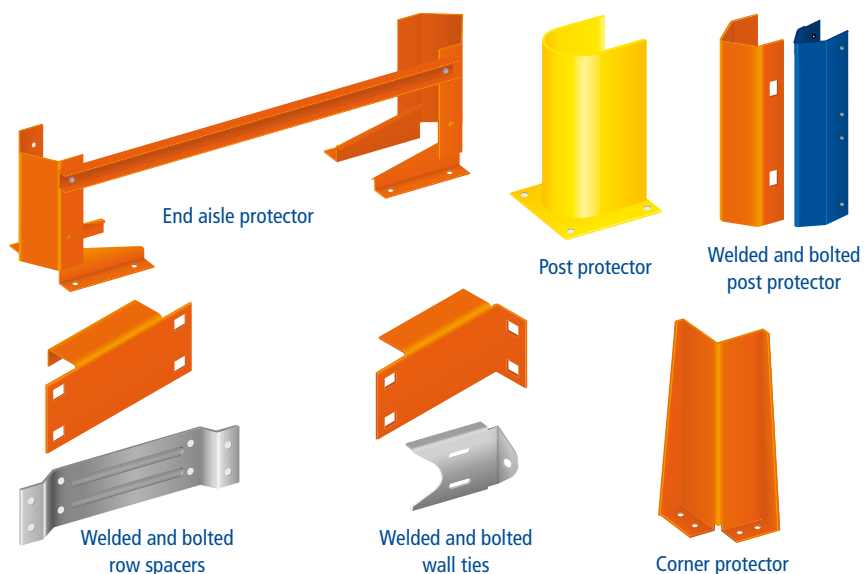
Components

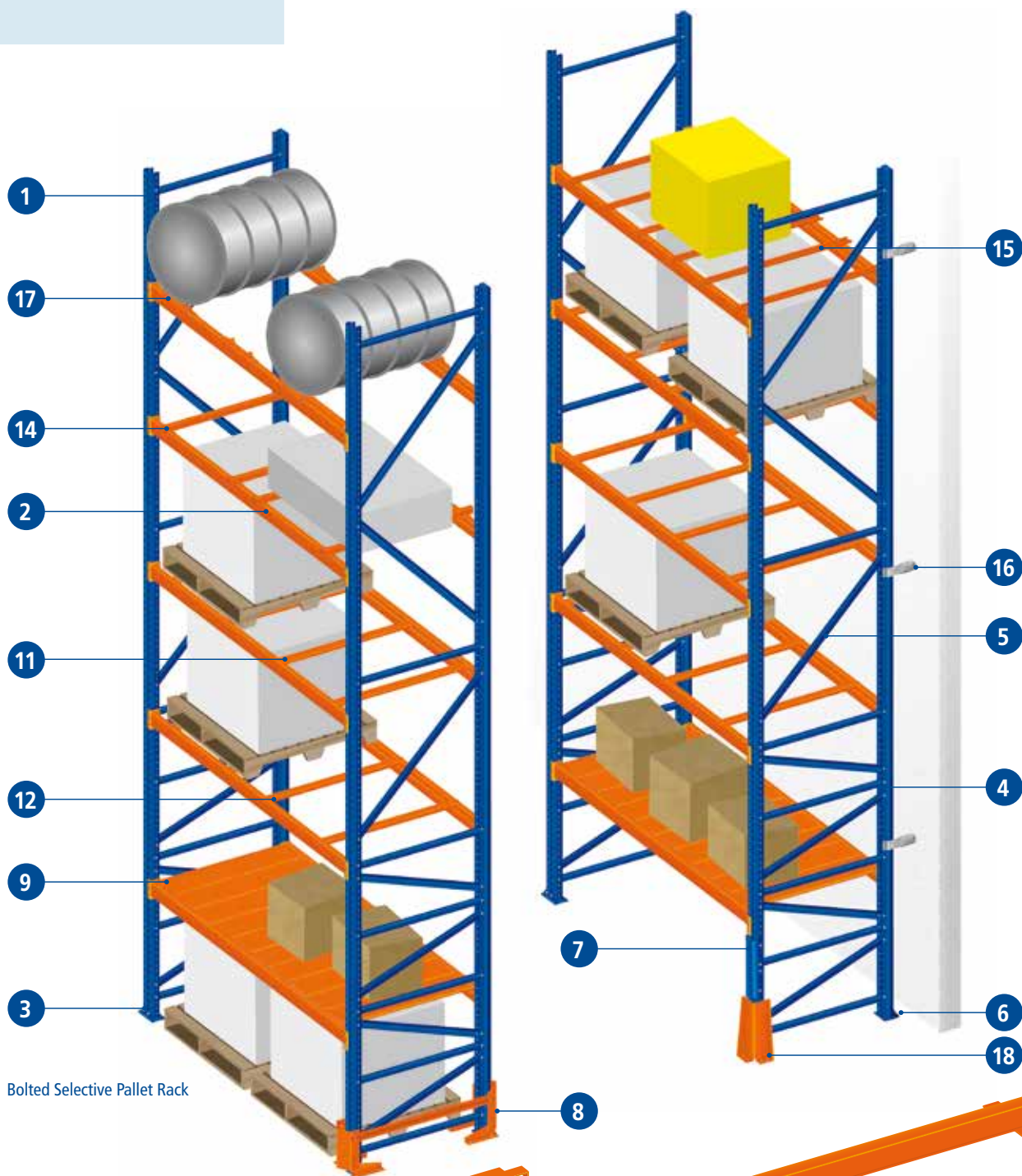
1. Frame
2. Beam
3. Foot plate
4. Horizontal strut
5. Diagonal strut
6. Shim
7. Post protector
8. End aisle protector
9. Shelf panel
10. Row spacer
11. Roll-in pallet support
12. Double flanged pallet support
13. Drum/coil bed
14. Fork clearance bar
15. Skid channel
16. Wall tie
17. Drum cradle
18. Corner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



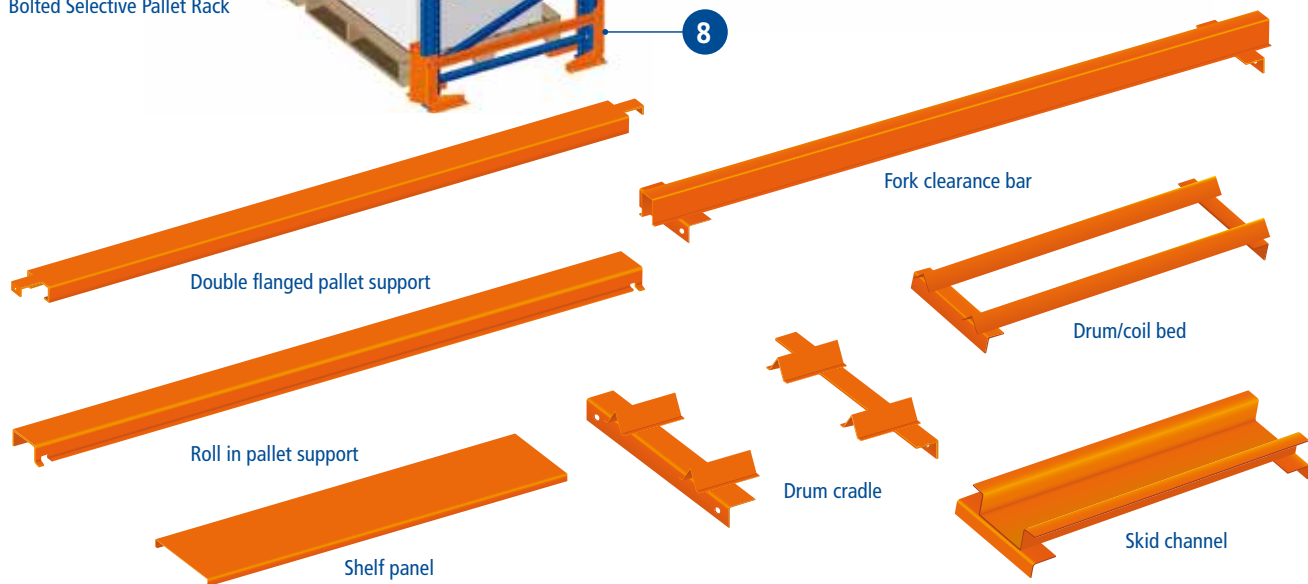
Accessories

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.





Bolted Selective Pallet Rack



Frames

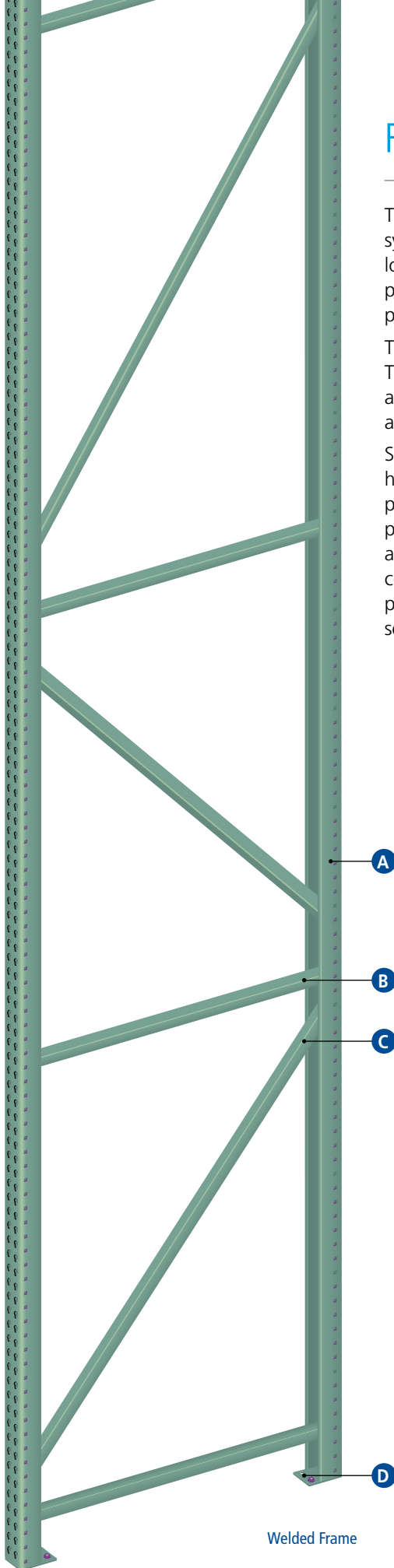
The Interlake Mecalux Selective Pallet Rack system provides an efficient use of floor space, load flexibility and easy reprofiling, all made possible through its extensive range of frame pieces and accessory components.

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.

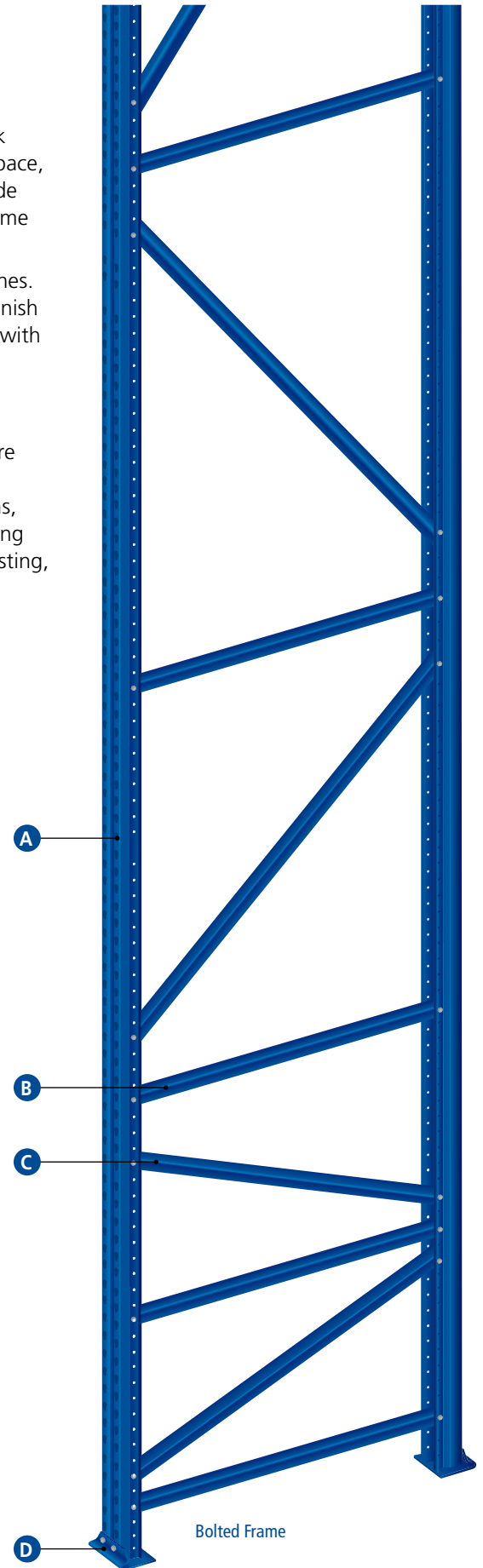
Standard frames consist of two posts, horizontal and diagonal struts, and foot plates. Hole punches for beam insertion are placed along the post in 2" centers. Posts are available in a variety of gauges, lengths, configurations for seismic zones and bracing patterns made to be more resistant to twisting,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

Basic Components

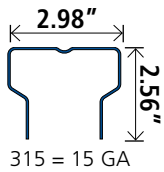
- A. Frame Post
- B. Horizontal Bracing
- C. Diagonal Bracing
- D. Foot Plate



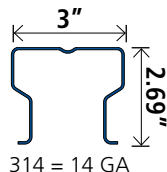
Welded Frame



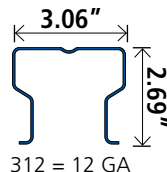
Bolted Frame



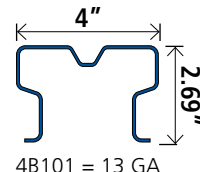
315 = 15 GA



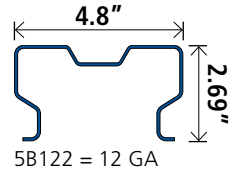
314 = 14 GA



312 = 12 GA
312T = 12 GA



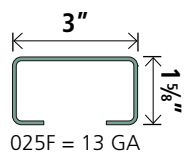
4B101 = 13 GA
4B102 = 12 GA



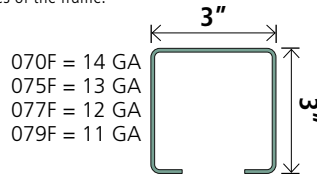
5B122 = 12 GA

Bolted Frame Capacities (lbs)											
	Model	315	314		312		312T*		4B101	4B102	5B122
	Gauge	15 GA (0.067")	14 GA (0.070")		12 GA (0.105")		12 GA (0.105")		13 GA (0.090")	12 GA (0.105")	12 GA (0.105")
	Height	4' - 16'	< 21'	> 21'	< 21'	> 21'	< 21'	> 21'			
Maximum Unsupported Span (HbL)	36"	19,855	24,571	25,847	34,514	36,322	32,545	34,218	40,800	47,800	55,000
	42"	18,326	22,807	23,924	32,120	33,717	29,703	31,142	39,000	45,800	53,200
	48"	16,716	20,867	21,832	30,032	30,667	26,682	27,911	36,900	43,300	51,300
	54"	14,963	18,849	19,680	26,546	27,742	23,689	24,738	34,700	40,800	49,100
	60"	13,310	16,849	17,563	23,670	24,694	20,661	21,543	32,400	38,100	46,800
	66"	11,603	14,784	15,400	20,994	21,881	17,725	18,508	30,000	35,300	44,400
	72"	9,925	12,982	13,535	18,323	19,125	15,137	15,705	27,600	32,500	41,800
	78"	8,666	11,156	11,571	15,849	16,455	13,036	13,464	25,200	29,700	39,200
	84"	7,493	9,758	10,075	13,875	14,340	11,259	11,580	22,800	27,000	36,700
	90"	6,534	8,595	8,848	12,130	12,490	9,985	10,236	20,600	24,300	34,000
	96"	5,722	7,597	7,795	10,703	10,984	8,787	8,986	18,300	21,700	31,500
	102"	5,134	6,761	6,918	9,614	9,841	7,756	7,913	16,300	19,300	28,900
	108"	4,619	6,086	6,216	8,596	8,782	6,898	7,019	14,600	17,200	26,500
	114"	4,100	5,496	5,601	7,656	7,805	6,299	6,402	13,100	15,500	24,000
	120"	3,732	4,989	5,074	6,976	7,102	5,636	5,585	11,900	14,000	21,800

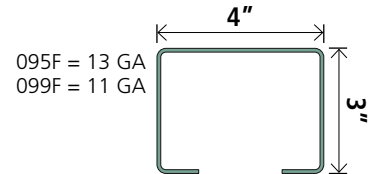
*312T is used for pick modules due to the square holes in both sides of the frame.



025F = 13 GA



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



095F = 13 GA
099F = 11 GA

Welded Frame Capacities (lbs)								
	Model	025F	070F	075F	077F	079F	095F	099F
	Gauge	13 GA (0.090")	14 GA (0.070")	13 GA (0.090")	12 GA (0.105")	11 GA (0.120")	13 GA (0.090")	11 GA (0.120")
Maximum Unsupported Height (HbL)	36"	23,400	28,600	38,400	44,300	50,000	37,500	60,200
	42"	21,900	25,900	34,600	39,800	44,900	37,500	60,200
	48"	19,300	23,000	30,600	35,200	39,700	36,300	57,900
	54"	16,700	20,000	26,400	30,400	34,300	33,900	53,200
	60"	15,000	17,700	23,100	26,600	30,000	31,300	48,400
	66"	13,400	16,000	20,900	24,000	27,100	28,500	43,500
	72"	11,700	14,400	18,700	21,400	24,100	25,800	38,700
	78"	10,300	12,800	16,500	19,000	21,300	23,200	34,500
	84"	9,100	11,400	14,700	16,900	19,000	21,700	31,900
	90"	8,000	10,200	13,100	15,100	16,900	20,100	29,400
	96"	7,100	9,200	11,800	13,500	15,200	18,600	26,800

HbL = Height between levels

- Capacities are per the 2012 RMI 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.

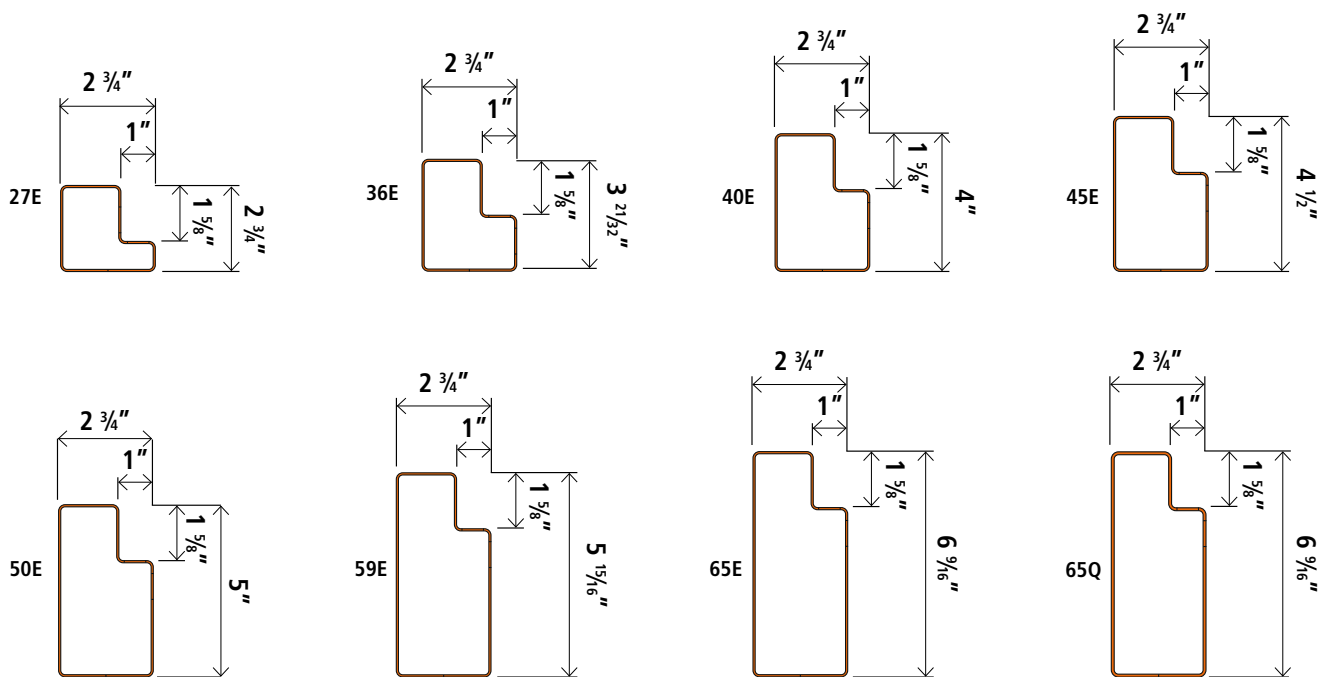
Available in different sizes, roll formed beams have welded end plates, which slot into the teardrop shaped holes located on the face of the frames. They are held to the frames using two safety, spring loaded locking devices per beam (one on each end plate).

Each load level is formed by two beams, one 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.





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"	5,620	8,065	9,450	11,090	12,895	16,870	17,115	27,745
54"	5,080	7,235	8,470	9,950	11,550	15,110	17,110	24,755
60"	4,645	6,575	7,685	9,035	10,470	13,705	15,845	22,365
66"	4,285	6,030	7,040	8,285	9,585	12,555	14,500	20,410
72"	3,985	5,580	6,500	7,660	8,845	11,590	13,375	18,780
78"	3,505	5,195	6,045	7,130	8,220	10,775	12,425	17,395
84"	3,075	4,865	5,650	6,675	7,685	10,075	11,610	16,210
92"	2,625	4,490	5,210	6,160	7,075	9,285	10,685	14,870
96"	2,435	4,165	5,015	5,930	6,810	8,935	10,280	14,285
102"	2,195	3,730	4,475	5,625	6,445	8,465	9,730	13,490
108"	1,990	3,360	4,030	5,350	6,125	8,050	9,245	12,780
114"	1,815	3,050	3,650	5,035	5,835	7,670	8,805	12,145
120"	1,660	2,780	3,320	4,585	5,575	7,335	8,410	11,575
126"	1,530	2,545	3,040	4,200	5,220	7,025	8,055	11,060
132"	1,415	2,345	2,795	3,865	4,795	6,585	7,475	10,590
138"	1,310	2,165	2,575	3,570	4,420	6,070	6,890	10,160
144"	1,220	2,010	2,385	3,305	4,090	5,620	6,370	9,765
150"	1,140	1,870	2,220	3,075	3,800	5,220	5,915	9,400
156"	1,070	1,745	2,065	2,870	3,535	4,865	5,505	9,030
162"	1,005	1,630	1,930	2,685	3,305	4,545	5,140	8,415
168"	945	1,530	1,810	2,515	3,095	4,260	4,815	7,860

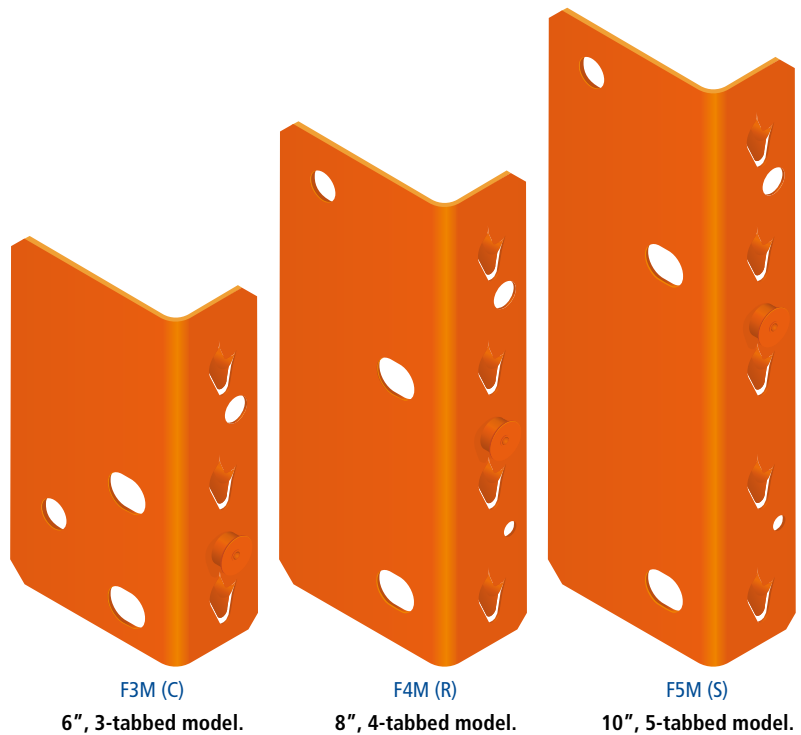
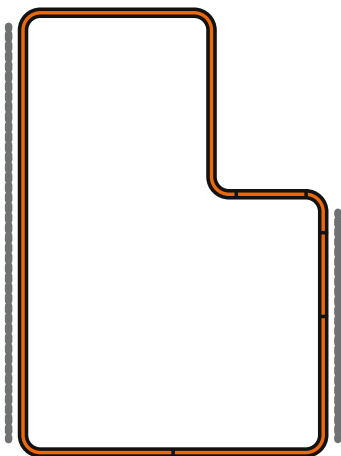
- Capacities are per the 2012 RMI and 2001 AISI specifications.
- Interlake Mecalux beams over 126"L require bracing to prevent buckling.
- Beams longer than 90" that support decking must be tied together to prevent spreading (IK025B crossbar).
- Loading to be uniformly distributed over the length of 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.



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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