

Pallet Rack Specifications

PALLET RACK: The basic components of Standard Penco Pallet Rack are Upright Frames and Beams. Each is manufactured to exacting tolerances to provide many years of dependable service at their rated loads.

Step Down Design: All beams have a step for the purpose of accepting accessories. Two step sizes are available: 7/8 " and 1-5/8" high.

Beam Locking Key For Safety: A unique recessed safety key made from heavy gauge steel engages a slot in the side of the post. As soon as beams are installed, the locking keys should be slid into place. They will resist an upward force from material handling equipment up to 1000 pounds. It is an integral part of the beam assembly, can be engaged easily without tools, and is clearly visible for checking.

Heavy Duty Beam End Connector: Beam ends are made from extra heavy gauge steel. They feature a three prong connection which assures positive beam to post alignment along the 8-1/2" length of the connector, and uniform load distribution. Tabs extend along the face of the beam to provide extra protection to the prongs during transit and installation.

Welded Upright Frame Bracing: Upright frame columns are securely MIG welded together with channel type braces for maximum rigidity.

Upright Column: A continuous post roll formed into an "M" design for added strength. Slanted slots on the column allow for beam placement on 3" vertical centers. The greater the unit load the tighter the beam-upright connection becomes. Slots on column sides accept the safety beam locking key. The design allows for standard beams to be placed flush with the top, or as close as 9" from the floor.

Foot Plate: A heavy gauge foot plate is securely welded to each post to provide load distribution over 13.7 square inches, and two 9/16" holes allow for floor anchoring on either side of the frame. Standard duty footplates are 7 ga. thick

Pallet Rack Frames: Penco Pallet Rack Upright Frames are available in five different load carrying ranges. A letter code stamped into the face of the post indicates the frame type. Depths of 30", 36", 42", 48", 54" and 60" are standard, but other depths are available. Standard heights range from 48" to 240" in 6" increments, but greater heights can be achieved when splices are used. Double posted and cantilever leg custom upright configurations are available upon request. Beam heights adjust on 3" vertical centers, and are independent on each side of the frame. Various load rated frames can be combined in a row of rack for maximum economy. Beams cannot be placed at locations where a splice is positioned. Penco Pallet Rack Upright Frames are furnished completely fabricated, welded into rigid units. Standard finish for upright frames is 028 Gray baked enamel. Other standard Penco colors are available upon request. We recommend that all upright frames be securely anchored to the floor for safety. Seismic conditions and local codes may require anchors other than the Penco 1/2"-13 x 3 3/4" wedge anchor be used. We suggest you check with local code officials about anchoring as many jurisdictions have approved different anchors.

Pallet Rack Beams: Penco has engineered its roll-formed one piece beam to achieve the highest possible strength-to-weight ratios in the most frequently desired load ratings through the use of efficient design and high strength steel. Beams are offered in eight basic styles with different vertical profiles and steel gauges. Beam step heights of 7/8" and 1-5/8" are available for a wide variety of accessory use. Both the overlapping seam and the beam end connector are securely MIG welded for strength. The face of the beam has an M-design recessed configuration for added strength, protecting the locking key, and to accept pressure sensitive labeling. Each beam is stamped with an identifying letter referring to the load bearing capacity. Beams are finished in 710 Sagebrush Yellow baked enamel for high visibility. Safety Yellow and any other standard Penco colors are available upon request.

PALLET RACK ACCESSORIES

Plywood Supports: For supporting plywood or other wood decking. Styles are available for 1/2" deck on 7/8" step beams and 3/4" deck on 1-5/8" step beams.

General Duty Cross Bars: For supporting loads smaller than unit depth.

Heavy Duty Flanged Cross Bar: Supports heavier loads smaller than unit depth on 1-5/8" step beams.

Fork Clearance Bar: Provides proper fork clearance for unpalletized stock, 2 " wide by 2-3/4" high.

Heavy Duty Skid Channel Assembly: Provides a channeled base for skid runners, 4" wide by 2" high.

Frame Splice: For adding to height of existing frame. Can be supplied welded in top of new frame if specified on order. (Top frame must be ordered without foot plate.) Hardware provided.

Frame Protector: Anchors to floor at front of post. Provides protection against damage from material handling equipment.

Frame Deflector: Fastens to front of upright post on 3" increments.

Rigid Wall Bracket: Structurally connects racks to wall for additional stability. Frame hardware included.

Rigid Row Spacer: Structurally connects and spaces two rows of rack back-to-back to satisfy NFPA requirements. Bolted into place. Hardware included.

Reel Holder: Accessorizes rack for elevated reel storage. Capacity is 1,000 lbs./pair and they can hold axels up to 2 1/2" diameter. Hardware included.

Decking: Decking for Pallet Rack is available in a number of formats that include wire, steel and wood.

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Pallet Rack Plus

Specifications

PALLET RACK PLUS: The basic components of Penco Pallet Rack Plus are Upright Frames and Beams. Each is manufactured to exacting tolerances to provide many years of dependable service at their rated loads. Other components and accessories are available

Step Down Design: All beams have a step for the purpose of accepting accessories. Two step sizes are available: 7/8 " and 1-5/8" high.

Beam Locking Key for Safety: A unique recessed safety key installed into each beam connector that is made from heavy gauge steel engages a slot in the side of the post. As soon as beams are installed, the locking key should be slid into place. They will resist an upward force from material handling equipment up to 1000 pounds. It is an integral part of the beam assembly, can be engaged easily without tools, and is clearly visible for checking.

Heavy Duty Beam End Connector: Pallet Rack Plus beams are intended for use in severe conditions or high seismic areas and have four pronged end frame connectors. The beams are centered along the 11 1/2" long connector so all prongs share equally in the live beam load. Any Penco pallet rack beam can be equipped with four-pronged connectors.

Welded Upright Frame Bracing: Upright frame columns are securely MIG welded together with channel type braces for maximum rigidity.

Upright Column: A continuous post roll formed into an "M" design for added strength. Slanted slots on the column allow for beam placement on 3" vertical centers. The greater the unit load the tighter the beam-upright connection becomes. All Plus pallet rack beams are attached 3" down from the top of the heavy duty connector and cannot be installed flush with the top of the uprights. Plus beams can be placed within 9" above the floor.

Foot Plate: All pallet rack Plus upright frames have footplates that are 35 square inches and 3/8" thick. Four 9/16" holes are present at the corners for anchoring.

PALLET RACK FRAMES: Penco Pallet Rack Plus Upright Frames are available in five different load carrying ranges. A letter code stamped into the face of the post indicates the frame type. Depths of 30", 36", 42", 48", 54" and 60" are standard, but other depths are available. Standard heights range from 48" to 240" in 6" increments, but greater heights can be achieved when upright frames are spliced together. Double posted and Cantilever leg custom upright configurations are available upon request. Beam heights adjust on 3" vertical centers, and are independent on each side of the frame. Various load rated frames can be combined in a row of rack for maximum economy. Beams cannot be placed at locations where a splice is positioned. Penco Pallet Rack Upright Frames are furnished completely fabricated, welded into rigid units. Standard finish for upright frames is 028 Gray baked powdercoat enamel. Other standard Penco colors are available upon request. We recommend that all upright frames be securely anchored to the floor. Seismic conditions and local codes may require anchors other than the Penco 1/2"-13 x 3 3/4" wedge anchor be used. We suggest you check with local code officials about anchoring as many jurisdictions have approved different anchors.

PALLET RACK BEAMS: Penco has engineered its roll-formed one piece beam to achieve the highest possible strength-to-weight ratios in the most frequently desired load ratings through the use of efficient design and high strength steel. Beams are offered in eight basic styles with different vertical profiles and steel gauges. Beam step heights of 7/8" and 1-5/8" are available for a wide variety of accessory use. Both the overlapping seam and the beam end connector are securely MIG welded for strength. The face of the beam has an M-design recessed configuration for added strength, protecting the locking key, and to accept pressure sensitive labeling. Each beam is stamped with an identifying letter referring to the load bearing capacity. Beams are finished in 710 Sagebrush Yellow baked enamel for high visibility. Safety Yellow and any other standard Penco colors are available upon request.

PALLET RACK ACCESSORIES

Plywood Supports: For supporting plywood or other wood decking. Styles are available for 1/2" deck on 7/8" step beams and 3/4" deck on 1-5/8" step beams.

General Duty Cross Bars: For supporting loads smaller than unit depth.

Heavy Duty Flanged Cross Bars: Supports heavier loads smaller than upright end frame depth. Only available for use with 1-5/8" step beams.

Fork Clearance Bar: Provides proper fork clearance for loads not on pallets. Fork clearance bars are 2" wide by 2-3/4" high.

Heavy Duty Skid Channel Assembly: Provides a channeled base for skid runners, 4" wide by 2" high.

Frame Splice: For adding to height of existing frame. Can be supplied welded in top of new frame if specified on order. (Top frame must be ordered without foot plate.) With hardware. Can be used with standard or Plus uprights. Length of splice allows for two bolt locations on each side of the splice joint. Hardware for attachment is included. Top frames must be ordered without footplates.

Frame Protector: Anchors to floor at front of post. Provides protection against damage from material handling vehicles.

Frame Deflector: Fastens to front upright post on 3" increments.

Rigid Wall Bracket: Structurally connects racks to wall for additional stability. Frame hardware included.

Rigid Row Spacer: Structurally connects and spaces two rows of rack back-to-back to satisfy NFPA requirements. Bolted type. Hardware included.

Reel Holder: Accessorizes pallet rack for elevated reel storage. Capacity is 1,000 lbs/pair and they can hold axles up to 2 1/2" diameter. Hardware is included.

Decking: Decking for pallet rack is available in a number of formats that include wire, steel and wood.

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