

T



T-bolt

T-bolt: A bolt that has a long end which inserts into the upright front hole and rotates 90 degrees to lock a beam or row spacer to the upright. A t-bolt installation does not require reaching into the column.



Teardrop Punching

Teardrop: (keyhole) The punched holes in the shape of a teardrop that are on the face of interchangeable uprights for beams to attach to. Each pair of holes is 2" on vertical center.

Tek Screw: A screw that is drilled into the rack to secure accessories. A tek screw should not replace a connection that requires a bolt.

Tensile Strength: A value determined through destructive testing at which a material will fail when being pulled from each end. Tensile Strength is an important property considered when ordering steel.

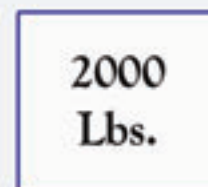
Thickness of Steel: A decimal measurement of steel taken with a Micrometer.

T

Tolerance: *Fractional variation allowed during manufacturing and installation processes.*

Ton: *Unit of weight measurement equal to 2,000 pounds.*

Tool Holder: *A bracket which has two square tubular arms welded to the front, angled upward to hold tools with long handles. One arm is shorter than the other to allow a slot to slide the tools on.*



Ton



Tool Holder

U



Uniform Load

Uniform Load: A load on a pair of beams supported by all, or nearly all of the beam surface.

Unsupported Length: Measurement of the distance between the floor and the top of the first beam or the maximum spacing between beams - whichever is greater.



Upright

Uprights: (frames) The vertical member of the rack system which beams lock into. Consists of two columns and welded bracing.

V

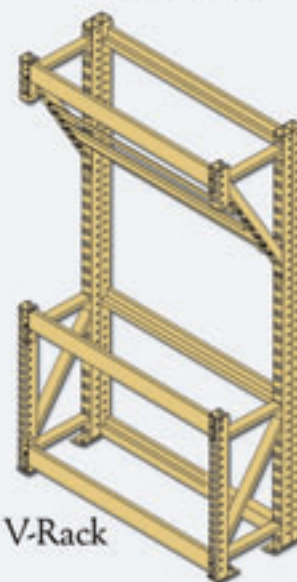
V-Divider: Tubing in the shape of a “V” that has a bracket on either end that attaches to a pair of beams. The “V” hangs below the beams to separate large merchandise such as windows.

V-Rack: (fan rack) A special upright with a tall, double post in the rear and a shorter post in the front. A special top section attaches to hold channel beams which support fans and light fixtures.

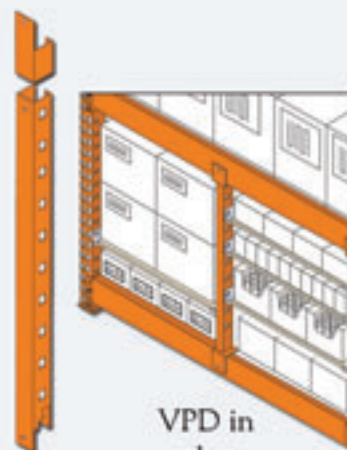
VPD: (Vertical Post Divider) The vertical member used to segregate different size product within a bay without adding beam levels. Post attaches to beam above and rests on beam below. L-rails are installed in the side punching of the VPD to create shelves.



V-Divider



V-Rack



VPD in a bay

VPD

W



Wall Tie

Wall Tie: A rigid metal strip with a plate on one end which attaches racking which is prone to overturning to a concrete wall unit. Before adding wall ties to a system, an engineer should be consulted.



Wedge Anchor Bolt

Wedge Anchor: A special, removable bolt used to fasten uprights to the floor.

Weed Wacker Holder: A square tube with a bracket on one end that attaches over the beam. The opposite end of the tube has a bent wire piece which can cradle a weed eater for display.



Whiz Bolt

Weld: The application of heat and gases to fuse two pieces of metal together.

Whiz Bolt: (whiz nut) A bolt or nut with a serrated flat section that grips the surface it is being attached to.

Wind Load: Added force on a rack system caused by wind.

W

Wire Decking: *Grids of wire welded together that rest on the steps of the beams to form a shelf.*

Wood Decking: *(stickers) Wooden boards which rest on a pair of beams and form a shelf.*

Wood Spacer Strips: *(sticker spacers) A metal band with relief areas for wood to nest into for separation of wooden decking. Spaces stickers so that water can flow through in the event of fire.*



Wood Spacer
Strips

Y-Z

Yield: *The point at which a piece of steel is stretched and will not return to its original size. The point at which an overloaded component will take a permanent set.*

Zinc: *Metallic coating applied to racking components to add weather resistance. (galvanizing)*

Zones: *(seismic, earthquake zones) A reference to certain areas of the country with different seismic activity.*

ex. Zone 1 - Least amount of seismic activity

Zone 4: Greatest amount of seismic activity