



SCREW AND BOLT STANDARDS FOR FIELD BUILT DISPLAY FIXTURES

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SCREW AND BOLT STANDARDS

SCOPE AND DEFINITIONS

SCOPE

- These standards apply to the construction, assembly or installation of field built display fixtures.

DEFINITIONS

- Displays are defined as merchandise, merchandise samples or representations of merchandise used to sell a product.
- Fixtures are the structures in which displays are housed.
- Field Built Display Fixtures are fixtures constructed in the store by vendor representatives, contractors or Home Depot associates. These can be constructed from raw materials provided by the store, vendor, or contractor.



SCREW AND BOLT STANDARDS

NATIONAL RACKING INSTALLATION STANDARDS (NRIS)

NRIS STANDARDS ARE NEVER TO BE VIOLATED WHEN USING FASTENERS

- Modifying or altering “H” or “Z” bracing on pallet racking is prohibited, including, but not limited to welding, cutting, drilling or self-tapping.
- It is permissible to drill one hole (1/4” maximum diameter) horizontally in each face of an upright post and drill multiple holes (1/4” maximum diameter) vertically provided that the holes are spaced a minimum of 3” apart.
- Do not drill holes in the top or bottom surfaces of beams.
- It is permissible to drill one hole (1/4” maximum diameter) vertically on the front or back face of a beam and drill multiple holes (1/4” maximum diameter) horizontally provided that the holes are spaced a minimum of 3” apart.



SCREW AND BOLT STANDARDS

THROUGH BOLTING

Through bolting is where a carriage bolt or machine screw penetrates completely through the item being mounted and the support structure it is being mounted to with a nut and washer securing everything from behind. Through bolting is to be used for:

- mounting framing to the face of the carpet machines
- mounting sheathing to the sides of uprights (carriage bolt with a nut and washer preferred)
- mounting any display to MDF, melamine or plywood. (standard machine screw with nut and washer or carriage bolt with nut and washer)

Never use fender washers in any of these applications.



Carriage Bolt, Washer and Nut



Machine Screw, Nut and Washer



SCREW AND BOLT STANDARDS

SELF TAPPING SCREWS

There are times when heavy sheathing or plywood (over 1/2" thick sheets) must be mounted to racking, metal structures or wood structures.

- The preferred method is through bolting with a carriage bolt but this application may not always work. Minimum 3/8" diameter through factory holes in the column.
- The second choice is standard self tapping screws with the washer integrated into the head.
- Self Tapping screws will need to be a #12 or #14 and a maximum of 12" apart.

Never use fender washers in these applications.



Self Tapping Screws



SCREW AND BOLT STANDARDS

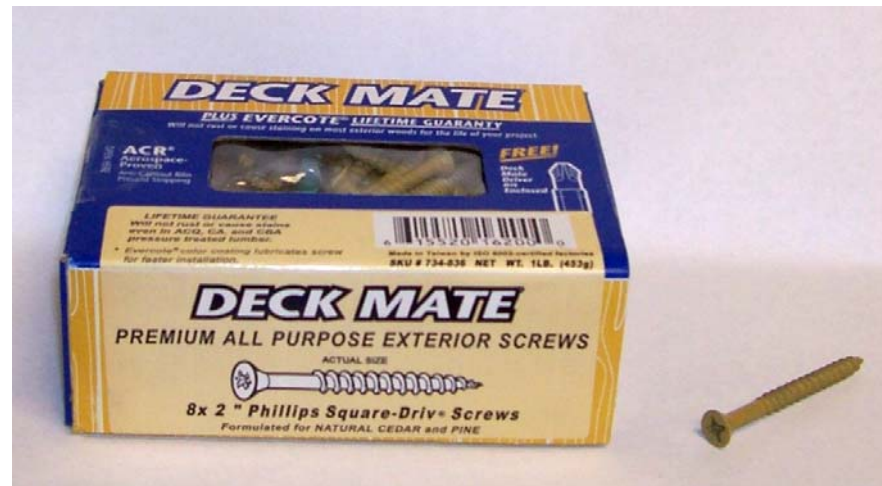
DECKING SCREWS

The only approved fasteners for wood on wood construction are decking screws.

- Screw length should be a minimum of 2X the thickness of the wood being fastened.

Drywall screws are never to be used.

Nails or glue can be used for basic assembly but decking screws must be installed in addition to these fastening methods.





SCREW AND BOLT STANDARDS

LATH SCREWS

Mounting thin sheathing 1/2" thick or less, or pegboard to wood or metal structures is to be completed with lath screws. These screws are also to be used for mounting in store signage to beams, uprights, displays, and walls.

- **Screw length should be a minimum of 2X the thickness of the materials being fastened.**
- **The screws are to be installed a maximum of 12" apart.**
- **Screws mounting peg board should penetrate the pegboard between the predrilled holes.**

The use of drywall screws, decking screws, standard wood screws, sheet metal screws or nails are prohibited for this application.



Lath Screws for Wood Structures












Lath Screws for Metal Structures



SCREW AND BOLT STANDARDS





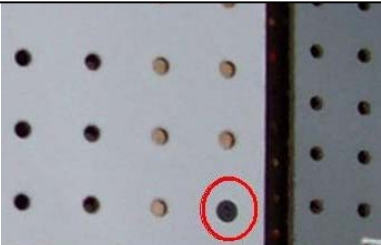
FASTENER APPLICATION SUMMARY

Application	Fastener	Incorrect	Correct
Heavy sheathing to uprights- preferred method (>1/2" thick)	Carriage bolt – through bolted 	 Do not use screws or bolts with fender washers. Instead, use carriage bolts with washers and nuts (through bolting).	
Heavy sheathing to uprights – alternate method	#12 or #14 self tapping screws 	 Do not use screws or machine bolts with finishing washers, use self tapping screws with washer integrated into the head.	
Mounting displays to MDF, melamine or plywood	Carriage bolt or machine screw – through bolted 	 Do not use drywall, decking or wood screws to mount displays. All displays must be through bolted with a nut and washer on the back side.	



SCREW AND BOLT STANDARDS

FASTENER APPLICATION SUMMARY

Application	Fastener	Incorrect	Correct
Wood to wood	<p data-bbox="682 477 894 505">Decking screw</p> 	 <p data-bbox="1066 656 1829 727">Drywall screws are strictly prohibited. Decking screws are the correct fasteners for display construction.</p>	
Thin sheathing or pegboard to metal or wood structures (1/2" thick or less)	<p data-bbox="701 721 873 748">Lath screws</p> 	 <p data-bbox="1066 997 1829 1105">Drywall screws or screws with finishing washers are strictly prohibited. Lath screws are the correct screws for mount thin sheathing.</p>	