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INSTALLATION / SPECIFICATIONS FOR THE SMART SET SAFETY TEMPORARY FALL PROTECTION/SAFETY RAIL SYSTEM <u>Installation Instructions for the Smart Set Safety Rail System</u> when installing post on 8 Ft. Centers:

The Maximum Spacing for the Smart Posts is 8 ft centers using 10 ft rails over lapping each post by 1 ft. in each direction

Top Rail requirement when using a 2 x 4 rail: To maintain OSHA STANDARDS USE A Fiber (stress grade) construction grade lumber 2 inch by 4 inch (5 cm x 10 cm) lumber. See OSHA 1926.502 (b) on page 2 of 2. A standard 2 x 4 will not span 8ft.

NOTE: Another option for 8ft centers is to use a standard 2 x 6 x 10ft clear standard lumber for top rail to maintain strength and minimum height requirements.

Mid and Toe Rails should be at least a standard 2 x 4 lumber to work with the post.

Securing the Smart Set Post to specific subfloor types:

Warning: check with Fastener Company for proper fastener depth and load requirements.

Example 1 for anchoring post to concrete (3000 lb. 4 inches thick): use 4 Titen HD Simpson Strong -Tie® anchoring system requires 4 fasteners per post. Required size is 3/8 x 2-3/4 inch imbedded depth with fender washers.

Example 2 for anchoring post to wood I beam joist: use $4 - 3/8 \ge 2$ inch lag bolts with fender washers per Smart Post.

IMPORTANT: HAND TIGHTEN ONLY thumb screw to secure the rails in place.

Installation Instructions for the Smart Set Safety Rail System when installed on 7 Ft. Centers:

If posts are mounted on 7 ft. Centers, standard clear 2 x 4 lumber can be used for top, mid and toe rails.

All other details of installation are the same as the 8 ft center instruction above.

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INSTALLATION AND SPECIFICATIONS FOR THE SMART SET SAFETY TEMPORARY FALL PROTECTION/SAFETY RAIL SYSTEM

(CORNERS AND GATES) When coming to a corner set posts 1 ft 6 inches out from the corner and let the rail run by until it contacts the rail coming from the other direction. Use 2 ft blocks behind rails to end a run of railing. You may also create a gate by installing vertical pieces of wood screwing them 2 ft inside the post to the 3 rails creating a gate that can allow you to remove the top, mid and toe rail together. (Works very well for elevator shafts under construction)

For any questions regarding this product, and questions concerning proper installation, Immediately contact your distributor or Smart Set <u>Representative.</u>

When The Smart Set Safety Rail System is installed correctly, the system will meet and or exceed OSHA standards.

OSHA Regulation (Standards - 29 CFR) **<u>1926.502(b)(4)</u>** states:

When the 200 pound (890 N) test load specified in paragraph (b)(3) of this section is applied in a downward direction, the top edge of the guardrail shall not deflect to a height less than 39 inches (1.0 m) above the walking/working level. **Guardrail** system components selected and constructed in accordance with the Appendix B to subpart M of this part will be deemed to meet this requirement.

1926 Subpart M - Appendix B

OSHA's Regulations (Standards - 29 CFR) Guardrail Systems - Non-Mandatory Guidelines for Complying with **<u>1926.502(b)</u>** - **<u>1926 Subpart M App B</u>** - States in part:

The standard requires guardrail systems and components to be designed and built to meet the requirements of **1926.502(b)(3)**, **(4)**, **and (5)**. This Appendix serves as a non-mandatory guideline to assist employers in complying with these requirements . . .

(1) For wood railings: Wood components shall be minimum 1500 lb-ft/in(2) fiber (stress grade) construction grade lumber; the posts shall be at least 2-inch by 4-inch (5 cm x 10 cm) lumber spaced not more than 8 feet (2.4 m) apart on centers; the top rail shall be at least 2-inch by 4-inch (5 cm x 10 cm) lumber, the intermediate rail shall be at least 1-inch by 6-inch (2.5 cm x 15 cm) lumber. All lumber dimensions are nominal sizes as provided by the American Softwood Lumber Standards, dated January 1970...