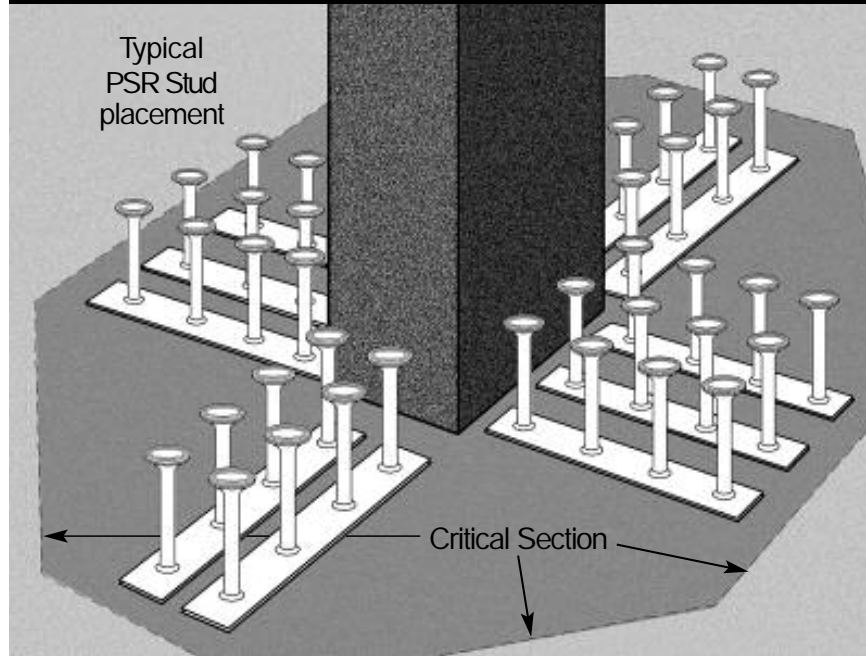


Nelson® PSR Studs

For reinforced concrete structures



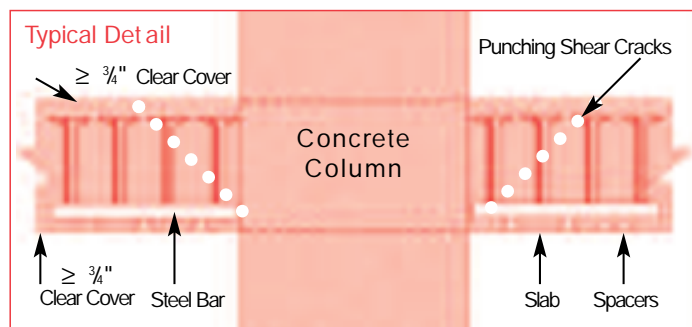
Nelson Punching Shear Resistor Studs are used to fabricate reinforcing rails for concrete floor slabs and foundations at the point where columns penetrate through the floor to prevent "punching shear." The PSR studs significantly reduce the need for heavy reinforcement and a large column capital under the floor slab. The PRS studs provide easier installation and ductile performance.

Application Details: Several studs of an established length and diameter are welded onto a flat bar at specific spacing to extend from the column perimeter into the floor slab. This reduces the amount of reinforcing bar required in an area and column reinforcing congestion resulting in lower overall costs.

There is a clear cover at the top and bottom of the installed studs. The reinforcing stud strip is held off the wood form by a spacer or "chair" to ensure clear cover requirements. The spacer is fastened to the wood form, the floor cast and the forms stripped.

The PSR can also be used as an embedment by welding a tap stud on the bottom of the flat bar plate. The welded tap stud can be used for suspending electrical, heating, plumbing and sprinkler runs replacing costly drilled or grouted anchors in the floor slab after casting.

Nelson studs meet ASTM A108 Grade 1015 steel and comply to the following standards:
 American Welding Society AWS D1.1 structural welding code-Steel
 Canadian Standards Association CWB W59-89
 ISO-13918
 Nelson is an ISO Registered Manufacturer



Design Details

The PSR has been thoroughly tested using American, Canadian and European reinforced concrete construction code design engineering principles. Designers may access an automated design program through the Internet. Please contact a Nelson representative for this detail and application engineering assistance.

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