

## Ring Shank Nail Pullout Capacity

Architects, Engineers, and Building Contractors must often consider the pullout capacity of nails in PorterSIPS panels to determine the correct fastener placement required for finishing products and systems. The following table identifies various withdrawal design values (pullout capacities) for ring shank nails.

Nail Type	Diameter (in) <sup>1</sup>	Withdrawal Design Values (lb) <sub>2,3,4</sub>
Ring Shank	0.092	22.7
	0.099	24.4
	0.113	27.9
	0.120	29.6
	0.131	32.4

- 1 Diameters per typical and available Senco ring shank nails.
- 2 Reference National Design Wood Specification (NDS) 2024, Section 12.2.3.2 (Eq. 12.2-5).
- 3 These values incorporate the properties of the sheathing used on the top side of PorterSIPS. The sheathing thickness is 7/16" and the sheathing specific gravity is 0.56 for ring shanked nails per the APA Panel Design Specification (PDS) 2020, Table 4.
- 4 The withdrawal design values shall be multiplied by all the applicable load adjustment factors in the National Design Wood Specification (NDS) 2024, Section 11.3 (Table 11.3.1).

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