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**Pullout Data for Heckmann Pos-I-Tie® Barrel Screws
from Wood backup**

Tested with #2 Southern Pine Lumber load tested in axial and shear at various edge distances by ASTM D 1761-90 Standard Test Methods for Mechanical Fasteners in Wood. Specimen loaded to failure.

Edge Distance inches	Embed Distance inches	Loading Plate Material	Test	Ultimate Load LBS	% range	Failure
0.75	1.5	0.05 Alum	Axial	1,024	27.34%	Pullout
0.75	1.5	0.05 Alum	Shear	600	26.67%	Lumber split
1.75	1.5	0.05 Alum	Axial	956	12.55%	Pullout
1.75	1.5	0.05 Alum	Shear	986	16.23%	Bent over pullout
0.75	1.5	0.125 Alum	Axial	1,284	20.25%	Pullout
0.75	1.5	0.125 Alum	Shear	1,084	23.99%	Pullout
1.75	1.5	0.125 Alum	Axial	1,332	10.51%	Pullout
1.75	1.5	0.125 Alum	Shear	860	18.60%	Lumber split

Important note: Wire tie in mortar joint will pull out of veneer between 600 and 900 pounds.