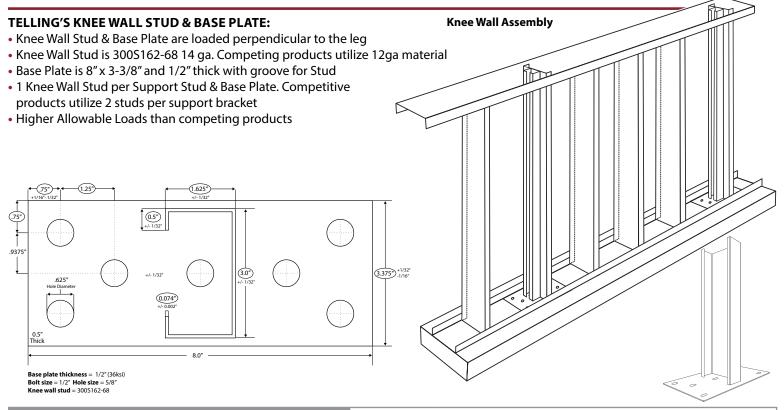


KNEE WALL SUPPORT BRACKET ASSEMBLY

Patent Pending

Knee Wall Support Bracket Assembly: What is it? An engineered system comprised of a 1/2" steel base plate welded to a 14ga structural stud.

In the construction industry, a "knee wall" is a term used to describe a short wall that is typically half the height of a full-sized wall. Also known as a "pony wall" or "cripple wall," knee walls are used for various purposes in building design, including providing structural support, dividing spaces, and enhancing aesthetic appeal.



Height (in)	Allowable Bendin Pony Wall Section	ng Capacity (kip-in) Stud to Baseplate Weld	Anchor to concrete	Knee Wall Suppo Anchor quantity: Anchor Type:		300S162-68 (50 ksi) 4 at each corner Hilti Kwik-TZ2		• • •
24	14.04	12.66	12.57	Anchor Size: - Concrete Thickness: Concrete Strength (cracked) - Embedment: I _{eff}		1/2 inch 5.5 inches 3000 psi 3.25 inches 0.6720 in⁴		
36	13.69	12.66	12.57					
48	12.50	12.66	12.57					• •
			Allowable Po	int Load Applied a	t the Top (lbf)			
Height	Strength	Combined Strength and Deflection						
(in)	Limit State	L/90	L/120	L/180	L/240	L/360	L/480	L/600
24	524	524	524	524	524	524	430	344
36	349	349	349	349	349	255	191	153
48	260	260	260	260	215	143	108	86
Allowable Distributed Load Applied along the Wall (plf)								
Height	Strength	Combined Strength and Deflection						
(in)	Limit State	L/90	L/120	L/180	L/240	L/360	L/480	L/600
24	524	524	524	524	524	524	524	459
36	233	233	233	233	233	227	170	136
48	130	130	130	130	130	96	72	57

Representative loads based on specific quantity, type of anchors and concrete thickness. For additional anchor type and concrete thickness refer to detailed knee-wall technical catalog.



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