

ROD STIFFENER EQUIVALENTS

Kinetics Noise Control provides clamps that may be used with the AISI rolled angles indicated in the tables below. The analysis and selection of rod stiffeners and clamps outlined in Section S8.0 and in Appendices A5.1 through A5.7 of this manual is intended to apply to rod stiffeners made from these rolled angles when used with the Models KHRC-B and KHRC-C Rod Stiffener Clamps. However, Kinetics Noise Control recognizes that other shapes and clamps may be used as hanger rod stiffeners, and that the analysis outlined in Section S8.0 and Appendices A5.1 through A5.7 may apply to these other shapes and clamps. It is the responsibility of the design professional of record to make this determination. As a convenience to other design professionals Kinetics Noise Control has included below Tables A5.8-1 through A5.8-3 to show the equivalencies between the AISI rolled angles used by Kinetics Noise Control and several other shapes commonly available to the various trades.

Table A5.8-1; Rod Stiffener Angle to Pipe Equivalents

Rod Stiffener Code	AISI Angle Designation	I_{z-z} (in ⁴)	Schedule 40 Nominal Pipe Size (in)	I (in ⁴)	Schedule 80 Nominal Pipe Size (in)	I (in ⁴)
A	L 1 x 1 x 1/8	0.009	1/2	0.017	1/2	0.020
B	L 1-1/4 x 1-1/4 x 1/4	0.033	3/4	0.037	3/4	0.045
C	L 1-1/2 x 1-1/2 x 1/4	0.059	1	0.087	1	0.106
D	L 1-3/4 x 1-3/4 x 1/4	0.095	1 1/4	0.195		
E	L 2 x 2 x 1/4	0.143	1 1/2	0.310	1 1/4	0.242
F	L 2 x 2 x 3/8	0.206			1 1/2	0.391
G	L 2-1/2 x 2-1/2 x 1/4	0.287	2	0.666	2	0.918
H	L 2-1/2 x 2-1/2 x 3/8	0.410			2	0.918
I	L 2-1/2 x 2-1/2 x 1/2	0.534			2	0.918

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Table A5.8-2; Rod Stiffener Angle to Conduit Equivalents

Rod Stiffener Code	AISI Angle Designation	I_{z-z} (in ⁴)	EMT Steel Conduit	I (in ⁴)	IMC Steel Conduit	I (in ⁴)	Rigid Steel Conduit	I (in ⁴)
A	L 1 x 1 x 1/8	0.009	3/4	0.013	1/2	0.011	1/2	0.017
B	L 1-1/4 x 1-1/4 x 1/4	0.033	1 1/4	0.077	1	0.059	3/4	0.036
C	L 1-1/2 x 1-1/2 x 1/4	0.059					1	0.084
D	L 1-3/4 x 1-3/4 x 1/4	0.095	1 1/2	0.120	1 1/4	0.125	1 1/4	0.187
E	L 2 x 2 x 1/4	0.143	2	0.248	1 1/2	0.204		
F	L 2 x 2 x 3/8	0.206			2	0.434	1 1/2	0.298
G	L 2-1/2 x 2-1/2 x 1/4	0.287	2 1/2	0.623				
H	L 2-1/2 x 2-1/2 x 3/8	0.410						
I	L 2-1/2 x 2-1/2 x 1/2	0.534	2 1/2	1.106				

Table A5.8-3; Rod Stiffener Angle to 1-5/8" UNISTRUT® Equivalents
Solid Channel: No Holes & No Slots

Rod Stiffener Code	AISI Angle Designation	I_{z-z} (in ⁴)	UNISTRUT Channel	Min. I (in ⁴)
A	L 1 x 1 x 1/8	0.009	P4100	0.026
B	L 1-1/4 x 1-1/4 x 1/4	0.033	P3300	0.037
C	L 1-1/2 x 1-1/2 x 1/4	0.059	P3000	0.120
D	L 1-3/4 x 1-3/4 x 1/4	0.095		
E	L 2 x 2 x 1/4	0.143	P1000	0.185
F	L 2 x 2 x 3/8	0.206	P5500	0.334
G	L 2-1/2 x 2-1/2 x 1/4	0.287		
H	L 2-1/2 x 2-1/2 x 3/8	0.410	P5000	0.433
I	L 2-1/2 x 2-1/2 x 1/2	0.534	P5501	0.669

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