

Steel Racks

Cantilevered Racks
Platform Connections

Welded-Wire Decking
R-Mark Submittals

Steel Shelving
Material Strengths

Boltless Shelving

Test Certificate # 24-2832 T

Issued Date: 5/13/2025

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For: JISE

net, total

A_{net total} all holes removed

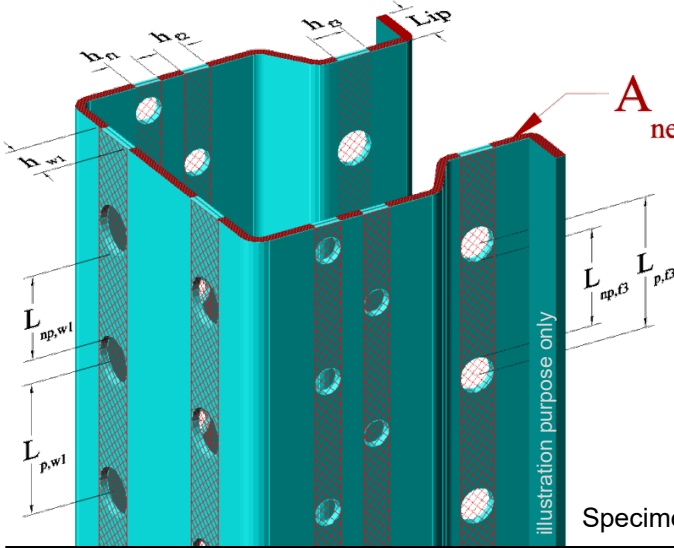
A_{net min} as defined per ANSI MH16.1-9.2

A_{net g} as defined per ANSI MH16.1-13.2 for use in global buckling

A_{net d} as defined per ANSI MH16.1-13.2 for use in distortional buckling

Reference Standard: 2023 RMI/ANSI MH16.1-13.2

Stub column tests for cold-formed steel and hot-rolled steel



Specimen Length [in]: 10

Material Strength	thickness [in]	Width [in]	Area [in ²]	P _{yield} [lbs]	P _{ultimate} [lbs]	F _{yield} [ksi]	F _{ultimate} [ksi]	2"-Elong [%]	Lu [in]	F _{ultimate} / F _{yield}
Sample TB1	0.1180	0.244	0.0288	1,888	2,405	65.6	83.5	20	0.41	1.27
Sample TB2	0.1180	0.245	0.0289	1,990	2,473	68.9	85.6	23	0.46	1.24
Sample TB3										
Average					2,439	67.3	84.6	22	0.43	1.26

Reference ID	Web Depth [in]	Flange Width [in]	Lip Length [in]	Inside Bend Radius [in]	L = pitch [in]	L _{np,f1} [in]	L _{np,w1} [in]	Web Hole(s) Total Width [in]	Flange Hole(s) Total Width [in]	A _{net, total} [in ²]
O303052117	3.000	3.000	0.515	0.176	2.000	1.586	0.927	1.573	1.588	0.739
thickness [in]	t _{gw1} [in]	t _{gf1} [in]	t _{dw1} [in]	t _{df1} [in]	A _{gross} [in ²]	A _{net min} [in ²]	Q_{9.2}	A _{net d} [in ²]	A _{net g} [in ²]	Q_{13.2}
0.117	0.033	0.056	0.072	0.087	1.109	0.832	.762	0.991	0.879	.721

Stub Column	P _{ultimate} [kN]	P _{ultimate} [kip]	% diff.
Sample SB1	194.1	43.635	2.4 %
Sample SB2	190.4	42.804	.5 %
Sample SB3	184.1	41.387	-2.9 %
Sample SB4			
Sample SB5			
Sample SB6			
Average	189.533	42.61	-2.9/+2.4 %



* A_{net, min} is not necessarily the same as A_{net, total}

Engineering Technician(s):

Gerrick Tan-Torres

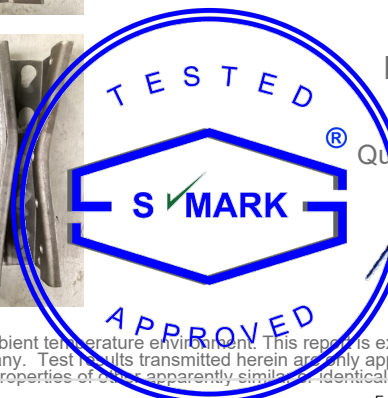
Support Technician:

DiMaggio Dominguez

QC: FH 5/5/2025

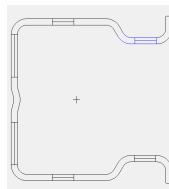
Quality/ Technical Manager:

Edward K. Choi



Misc. Specifications:
AISI S902/ ASTM A370

Testing Equipment:
Universal Testing Machine
(1000 kN/ SMHE #00121)



The tests were performed in general accordance with applicable test methods and standards at indoor ambient temperature environment. This report is exclusively for the use of the client as referenced in the report and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the lab or the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.