

STRESSBAR STEEL SYSTEMS INTERNATIONAL, INC.

SSSI RESTUD RAILS





INTRODUCTION

Stressbar Steel Systems International, Inc. offers a value engineering approach to resisting punching shear at slab-column connections in the presence of elevated slabs and foundation mat slabs. The RESTUD system provides a more cost effective solution for resisting punching shear. The system also allows quicker installation, as it eliminates column capitals and stirrup cages. RESTUD decreases the labor hours and costs normally associated with fabrication and installation of stirrups. Our cost-effective punching shear resisting method provides the following advantages:

- Distributes the shear forces over a larger area, thus preventing punching shear on the column.
- Eliminates the necessity of column capitals and stirrups.
- Reduces installation time.
- Reduces congestion at slab-column connections.
- Reduces costs.
- RESTUD rails have chairs designed to specifically guarantee proper concrete cover.



RESTUD IMAGES







PAGE 3

Stressbar Steel Systems International

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Stressbar Steel RESTUD System Data Chart

		Available Sizes							
		[in.]	[mm]	[in.]	[mm]	[in.]	[mm]	[in.]	[mm]
Stud Dia.	D_s	3/8	9.53	1/2	12.70	5/8	15.88	3/4	19.05
Stud Area	A_{S}	0.110	70.960	0.196	126.451	0.307	198.060	0.442	285.160
Plate Base	B_w	1.000	25.400	1.250	31.750	1.750	44.450	2.000	50.800
Plate Thick.	B_t	0.188	4.763	0.250	6.350	0.313	7.938	0.375	9.525
Head Dia.	${\sf H}_{\sf d}$	1.190	30.226	1.580	40.132	1.980	50.292	2.370	60.198
Head Thick.	H_{t}	0.260	6.604	0.330	8.382	0.400	10.160	0.470	11.938
Assembly Ht.	A _h	3.625	92.075	2.875	73.025	4.063	103.188	4.750	120.650

Notes: Studs are made from standard low carbon steel per ASTM A108 with the following properties

F _u	Fy	% Elong. 2"	A _r	
65 ksi	51 ksi	20%	50%	

Plates are made from standard commercial quality Steel Plate ASTM A36 Steel

Fu	Fy	% Elong. 8"	A _r
58ksi	36 ksi	20%	50%

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