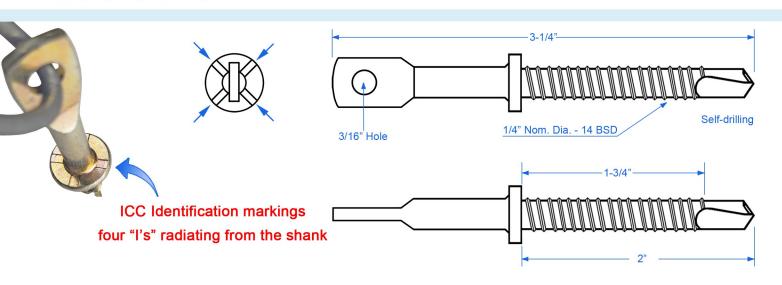


# Doc's® I-LAG™ Code Compliance

Item No,'s: 175 SD, 175 SDC



# **IDENTIFICATION: ESR-3135 SECTION 7.1**

The I-LAG™ brand screws are embossed with four I's radiating from the shank on the top portion of the collar as shown on Figure 1.



#### TABLE 2 — I-LAG™ BRAND EYE LAG SCREW FASTENER SHEAR AND TENSION STRENGTHS (Ibf)

FASTENER TYPE	NOMINAL FASTENER	NOMINAL STRENGTH		ALLOWABLE STRENGTH (ASD)		DESIGN STRENGTH (LRFD)	
	SIZE	Tension, Pts	Shear, Pss	Tension, (Pt  (Pt)Ω)	Shear, (P <sub>ss</sub> /Ω)	Tension, (ΦP <sub>ts</sub> )	Shear, (ΦP <sub>ss</sub> )
750SD	1/4-14	1560	2527	520	872	780	1263
175SD	1/4-14	1560	2527	520	842	780	1263

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N.



### TABLE 3 —AVAILABLE TENSION LOADS FOR I-LAG™ BRAND EYE LAG SCREWS INSTALLED IN STEEL DECK PANELS (Ibf)¹²

FASTENER TYPE	MINIMUM DESIGN BASE METAL THICKNESS (inch)								
PASIENER TIPE	0.030	0.036	0.047	0.062					
ALLOWABLE STRENGTH (ASD)									
750 SD 175 SD 82		125	176	229					
DESIGN STRENGTH (LRFD)									
750 SD 175 SD		201	281	366					

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 ksi = 6.895 MPa.

## ICC ESR-3135 Report Link:

https://docsindustries.com/wp-content/uploads/2020/08/ESR-3135.pdf











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<sup>&</sup>lt;sup>1</sup>The tabulated allowable load values are for the screws only, based on fastener strength and pullout capacity. Ceiling wire capacity is outside the scope of this report. Deck capacity is also outside the scope of this report.

<sup>&</sup>lt;sup>2</sup>Values are based on installation into steel having a minimum tensile strength, *F<sub>u</sub>*, of 45 ksi.