

HECKMANN BUILDING PRODUCTS

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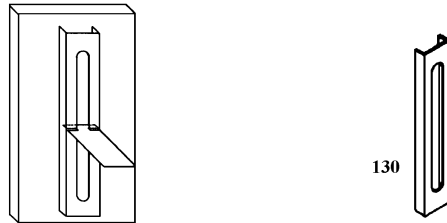
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#130 WELD-ON CHANNEL SLOTS

SIZE: 8" (203.2mm) Long x 1-3/8" (34.92mm) wide between 1/2" (12.7mm) inside flanges, with one slot 9/16" (14.28mm) x 5-1/2" (139.7mm) long. Tests were performed on 11 gage and 16 gage slots in plain steel conforming to ASTM A-569.

APPLICATION: Slots are welded to steel columns and beams usually every 16" (406.4mm) vertically. Anchors are installed into the slots with a 5-1/2" (139.7mm) vertical adjustment.

TEST CONDITIONS: Four samples each of 11 gage and 16 gage slots were welded to a 3/8" (9.525mm) x 4-1/2" (114.3mm) x 9" (228.6mm) steel plate. The weld bead was 1-1/2" (38.1mm) long on each of the top two corners and the bottom two corners. #134 Corrugated Channel Slot Anchors 16 gage x 1-1/4" (31.75mm) wide x 3-1/2" (88.9mm) long from the face of the channel were used for the test. The anchors were installed in the center of the channel and were pulled out at a 90o angle to the slot. The samples were tested to failure at a crosshead speed of 0.5"/minute (12.7mm/minute).



PULLOUT OF 16 GAGE T-ANCHOR FROM SLOTS

TEST RESULTS	11 GAGE SLOTS		16 GAGE SLOTS	
	NO. ANCHORS TESTED	AVERAGE PULLOUT	NO. ANCHORS TESTED	AVERAGE PULLOUT
	4	950 lbs.	4	668.8 lbs

#130 Channel Slot Test Continued

11 Gage Slots

Anchor 1: The anchor T-tail bent upward approximately 70°; then the ears folded downward causing the anchor to pull out of the slot. Maximum load 920 lbs. No damage to the slot.

Anchor 2: Same failure as #1. Maximum load 862.5 lbs. No damage to slot.

Anchor 3: Same failure as #1. Maximum load 1,072.5 lbs. Neck area on the anchor was slightly wider than the others which could account for the higher value and the slight upward distortion on one side of the channel slot.

Anchor 4: Same failure as #1. Maximum load 945 lbs. No damage to slot.

16 Gage Slots

Anchor 1: Same failure as 11 gage #1. Maximum load 630 lbs. Upward distortion on both sides of the channel.

Anchor 2: Same failure (anchor & slot) as #1. Maximum load 625 lbs.

Anchor 3: Same failure (anchor & slot) as #1. Maximum load 732.5 lbs.

Anchor 4: same failure (anchor & slot) as #1. Maximum load 687.5 lbs.