

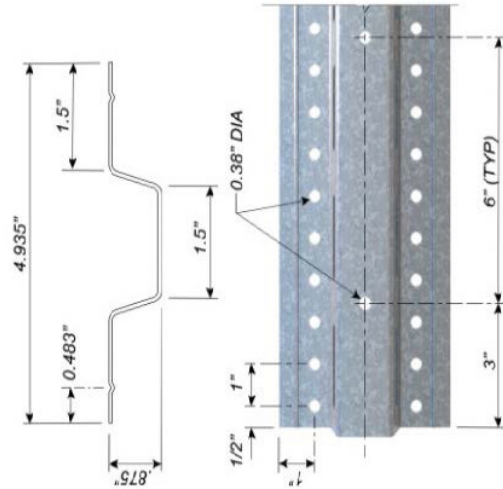
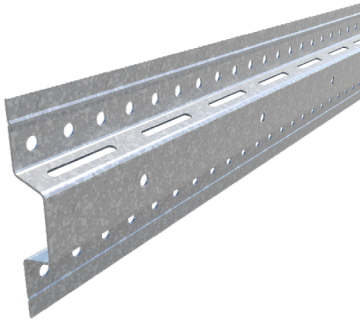
ProChannel Ci Rail Section Properties

Member	Depth (in)	Width (in)	Design thickness (in)	Yield Stress, F _y	Ultimate F _u	Gross Properties							Effective Properties				
						A (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	A _{net} (in ²)	I _x (in ⁴)	S _x (in ³)	M _a (in-lbs)	V _a (lb)
7/8" x 54mil (16ga)	0.875	1.50	0.0566	50ksi	65ksi	0.337	1.147	0.580	0.240	1.312	0.041	0.348	0.256	0.310	0.144	4325	1247

Notes:

- 1 Physical properties have been calculated in conformance with AISI S100-16(2020) w/S2-20.
- 2 Effective properties of structural framing incorporate the strength increase from the cold work of forming as applicable per AISI S100-16(2020) w/S2-20.
- 3 Gross properties are based on the cross-section away from web punchouts. Effective properties are based on knockout/punched sections.
- 4 The effective moment of inertia for deflection is calculated at a stress which results in a section modulus, such that the stress times the section modulus is equal to the allowable moment. AISI S100-16(2020) w/S2-20 procedure for serviceability determination has been used.

HORIZONTAL



VERTICAL

