

HI-HAT 1-1/2" FURRING CHANNEL 20 GAUGE

MEMBER DESIGNATION: 150FC125-24 IN.

WEB WIDTH: 1.25 IN.

FLANGE WIDTH: 1.5 IN.

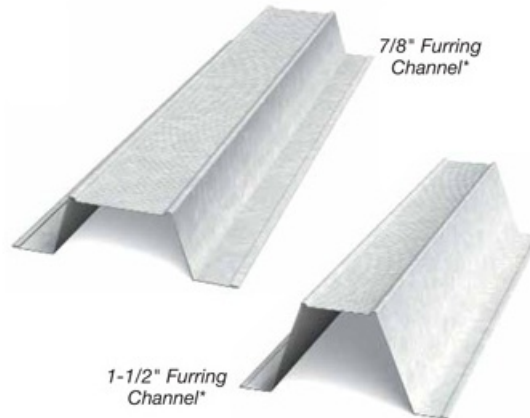
WEIGHT PER FOOT: 0.477 LB/FT

DESIGN THICKNESS: 0.0238 IN.

YIELD STRENGTH: 33 KSI

TENSILE STRENGTH: 45 KSI

GALVANIZED COATING: G-60



GROSS PROPERTIES

AREA: 0.14 IN²

I_x: 0.046 IN⁴

R_x: 0.572 IN

I_y: 0.0697 IN

R_y: 0.705 IN

EFFECTIVE PROPERTIES

I_x: 0.0459 IN⁴

S_x: 0.0569 IN³

Ma: 93.74 IN-K

SECTION PROPERTY NOTES:

1. PROPERTIES BASED ON THE AISI S100-07
2. HEMS AND OFFSET IN FLANGE OF NON-STRUCTURAL CHANNEL SECTIONS ARE IGNORED
3. FOR DEFLECTION CALCULATIONS, USE EFFECTIVE I_x. EFFECTIVE I_x IS BASED ON PROCEDURE 1 OF THE AISI S100-07
4. EFFECTIVE PROPERTIES ARE GIVEN AS THE MINIMUM VALUE FOR POSITIVE OR NEGATIVE BENDING

(HAT) FURRING (F) CHANNEL ALLOWABLE CEILING SPANS L/240									
SPANS	4 PSF CHANNEL SPACING (IN) O.C.			6 PSF CHANNEL SPACING (IN) O.C.			13 PSF CHANNEL SPACING (IN) O.C.		
	12	16	24	12	16	24	12	16	24
SINGLE	9' 1"	8' 3"	7' 3"	7' 11"	7' 3"	6' 4"	6' 2"	5' 7"	4' 10"
MULTIPLE	11' 3"	10' 3"	8' 11"	9' 10"	8' 11"	7' 10"	7' 7"	6' 7"	5' 4"

* LOADS THAT EXCEED THE 10 PSF LIMIT FOR NON-STRUCTURAL MEMBERS REQUIRE THE USE OF STRUCTURAL MATERIAL WITH G-60 OR SIMILAR COATING.

(HAT) FURRING (F) CHANNEL ALLOWABLE CEILING SPANS L/360									
SPANS	4 PSF CHANNEL SPACING (IN) O.C.			6 PSF CHANNEL SPACING (IN) O.C.			13 PSF CHANNEL SPACING (IN) O.C.		
	12	16	24	12	16	24	12	16	24
SINGLE	7' 11"	7' 3"	6' 4"	5' 6"	6' 4"	5' 6"	4' 3"	4' 10"	4' 3"
MULTIPLE	9' 10"	8' 11"	7' 10"	6' 10"	7' 10"	6' 10"	5' 3"	6' 0"	5' 3"

* LOADS THAT EXCEED THE 10 PSF LIMIT FOR NON-STRUCTURAL MEMBERS REQUIRE THE USE OF STRUCTURAL MATERIAL WITH G-60 OR SIMILAR COATING.

TABLE NOTES:

1. SINGLE SPANS TAKEN AS THE MINIMUM SPAN BASED ON MOMENT, SHEAR, WEB CRIPPLING OR DEFLECTION
2. MULTIPLE SPANS INDICATE TWO OR MORE EQUAL, CONTINUOUS SPANS WITH SPAN LENGTH MEASURED SUPPORT TO SUPPORT
3. MULTIPLE SPANS TAKEN AS THE MINIMUM SPAN BASED ON MOMENT, SHEAR, WEB CRIPPLING, DEFLECTION, COMBINED BENDING AND SHEAR OR COMBINED BENDING AND WEB CRIPPLING
4. WEB CRIPPLING VALUES BASED ON 1" BEARING AT END AND INTERIOR SUPPORTS