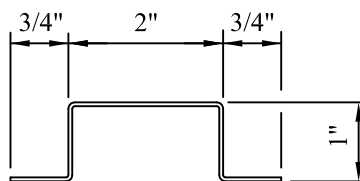




Material : A653 SS Grade 33
 Thickness: 16 ga. (0.0566")
 Bend Radii 0.085"
 Yield Strength: $F_y=33$ ksi
 Tensile Strength: $F_u=45$ ksi
 Modulus of Elasticity: $E= 2.9 \times 10$
 Moment of Inertia: $I_x =0.274$ in
 $I_x =0.047$ in



Furring Channel Section Properties

Negative Design Pressure from Wind for Steel Wall Studs at 24" Spacing										
Tile & Support Track Weight		7.5 psf			10.0 psf			15.0 psf		
Furring Channel Spacing		24.0 in	30.0 in	36.0 in	24.0 in	30.0 in	36.0 in	24.0 in	30.0 in	36.0 in
Support Track Spacing	24.0 in	95.8 psf	76.0 psf	62.7 psf	94.5 psf	74.6 psf	61.3 psf	92.0 psf	72.2 psf	58.8 psf
	36.0 in	53.2 psf	41.7 psf	34.2 psf	52.0 psf	40.5 psf	32.9 psf	49.3 psf	38.0 psf	30.4 psf
	48.0 in	36.0 psf	28.0 psf	22.8 psf	34.8 psf	26.8 psf	21.5 psf	32.3 psf	24.3 psf	0.0 psf
Furring Channel Spacing		18.0 in	24.0 in	30.0 in	18.0 in	24.0 in	30.0 in	18.0 in	24.0 in	30.0 in
Support Track Spacing	72.0 in	34.2 psf	24.7 psf	0.0 psf	32.9 psf	23.4 psf	0.0 psf	30.4 psf	20.9 psf	0.0 psf

Notes:

1. The allowable wind pressures shown in the charts above are based upon 18 ga. min. 33 ksi min. steel studs at 24" spacing, and 16 ga. 33 ksi min. steel furring channels at 18", 24", 30" or 36" spacing and fastened to each wall framing stud with two 1/4"-14 Tek 3 screws as shown on the Furring Channel Installation detail HPCI-TC 02.
2. The project designer is responsible for verifying the wall framing studs and furring channels are capable of supporting the horizontal and vertical loads imposed by the terra cotta tile and support track system in accordance to the project's design loads.
3. The project designer is responsible to specify the terra cotta tile sizes and support track spacing in accordance to project's design loads and the tile manufacturer's specifications.

Furring Channel Design and Spacing

HPCI Barrier Panel w/ Terra Cotta Cladding

HPCI-TC-03

Date: July 15, 2012