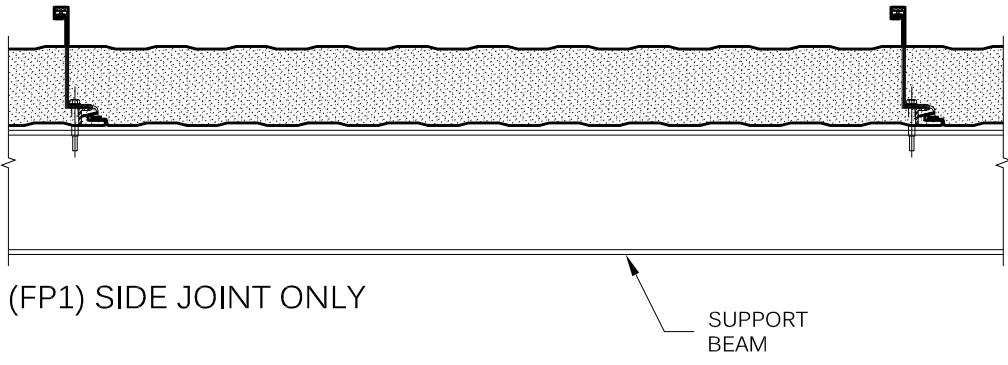


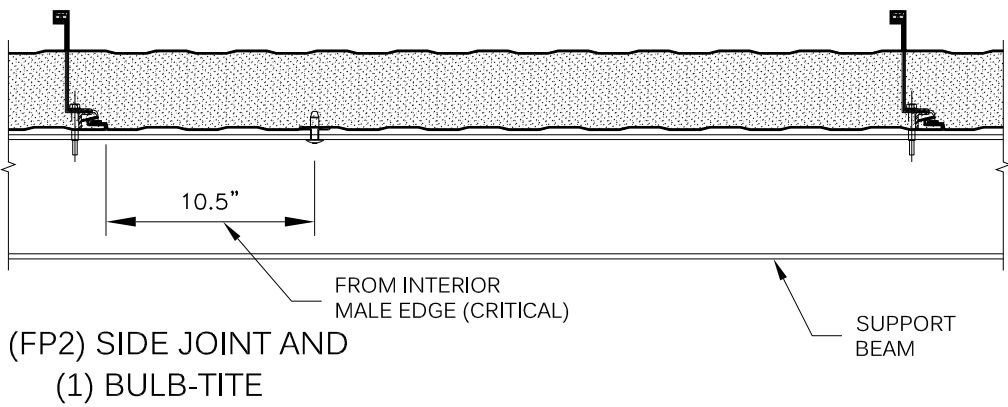
Metl Span CFR-42 Roof System							
24 Ga. Exterior / 26 Ga. Interior Facings							
Allowable Load Chart (SNOW) for Two or More Equal Spans							
CFR Panel Dimensions	Design Criteria	Long Term Allowable Load (psf)					
		Panel Span (ft)					
		2.5	3.0	4.0	5.0	6.0	7.0
42" wide 2" thick 2 fasteners/clip	Bending & Shear	147.7	121.5	88.9	69.7	57.2	48.4
	Deflection (L/180)	82.2	67.7	49.5	38.5	31.0	25.7
	Connection	58.5	53.5	46.8	42.5	34.5	28.5
42" wide 2.5" thick 2 fasteners/clip	Bending & Shear	169.3	139.6	102.4	80.3	65.8	55.7
	Deflection (L/180)	100.3	82.8	60.8	47.5	38.6	32.2
	Connection	65.0	58.5	50.3	45.1	36.6	30.4
42" wide 3" thick 2 fasteners/clip	Bending & Shear	188.7	155.7	114.5	89.9	73.7	62.3
	Deflection (L/180)	116.2	96.2	70.9	55.6	45.3	38.0
	Connection	71.3	63.5	53.6	47.6	38.7	32.2
42" wide 4" thick 2 fasteners/clip	Bending & Shear	199.2	164.8	121.7	95.8	78.7	66.5
	Deflection (L/180)	141.6	117.4	87.0	68.6	56.3	47.4
	Connection	84.0	73.4	59.9	51.8	42.4	35.7
42" wide 5" thick 3 fasteners/clip	Bending & Shear	225.7	187.1	138.6	109.4	90.0	76.2
	Deflection (L/180)	158.2	131.4	97.7	77.3	63.6	53.8
	Connection	86.5	75.5	61.8	53.4	44.4	37.9
42" wide 6" thick 3 fasteners/clip	Bending & Shear	249.4	207.0	153.8	121.7	100.3	85.0
	Deflection (L/180)	166.2	138.1	102.9	81.7	67.4	57.2
	Connection	88.8	77.6	63.5	55.0	46.3	40.0

Notes

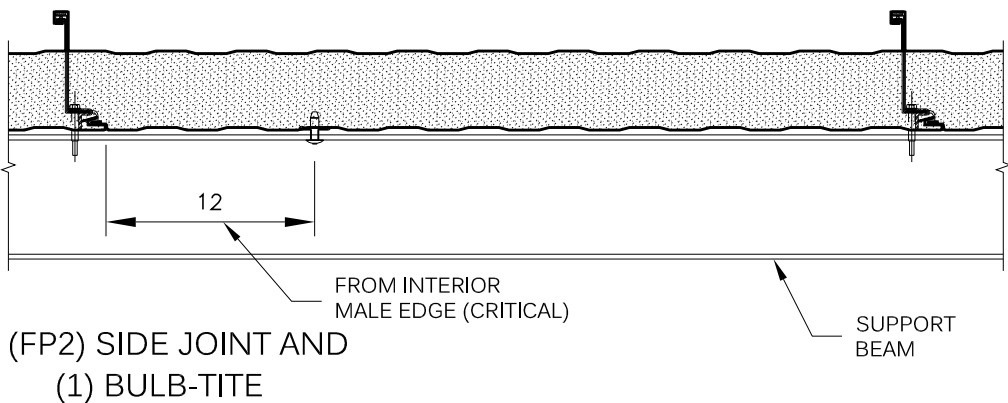
1. Based on CFR-42 panel with 24 ga. exterior face (min Fy = 50 ksi) and 26 ga. interior face (min Fy = 33 ksi).
2. Based on attachment at interior supports with CFR panel clip and (2 or 3 as shown above) 1/4"-14 Self-Drilling Tek 3 screws in min. 14 ga. steel or (2) 1/4"-14 Self-Drilling Tek 3 screws in min. 12 ga. steel. Two fasteners per clip are required at end supports. In lieu of self-drilling screws, self-tapping screws may be used.
3. Allowable positive load is the lowest value of panel bending and shear strength & deflection limit for **50% Shear Modulus**.
4. Allowable suction load is the lowest value of panel bending strength, shear strength, deflection limit and connection strength for **100% Shear Modulus**.
5. Connection loads may be increased with Fablok. Consult Metl-Span for additional loads.
6. The loads based on panel stress and deflection design criteria are derived from ASTM E-72 structural testing. The allowable loads are calculated with a factor of safety of 2.5 and 3.0 for bending and shear stresses, respectively, deflection limitation of L/180 and with a factor of safety of 2.0 for connection strength.
7. The clip fastener capacity was determined from manufacturer fastener pullout data and the allowable loads are calculated with a factor of safety of 3.0.
8. The structural capacity of the purlins are not considered and must be examined independently.
9. Multiple spans are based on 3 or more spans conditions.



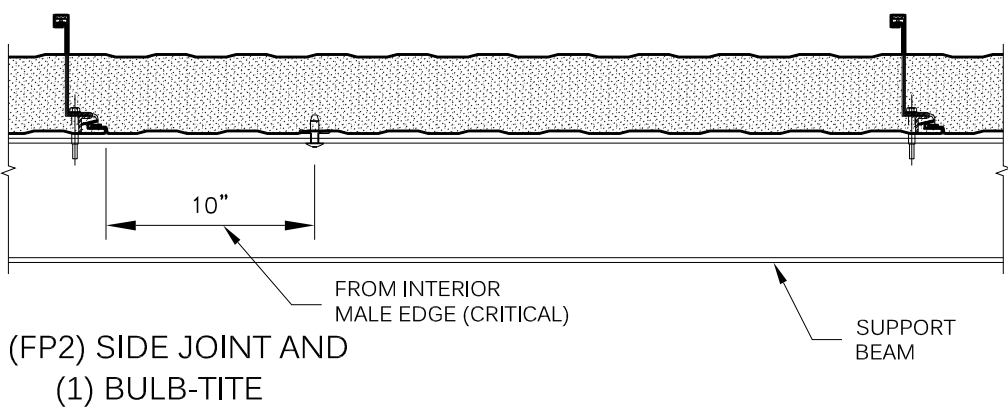
FP1 SAME CLIP AND FASTENER FOR CFR42, CFR36, CFR30



FP2 FOR CFR42



FP2 FOR CFR36



FP2 FOR CFR30

