



TC44	Span Condition	Design Criteria Connection	Allowable ASD Load (psf)											
			Panel Span (ft)											
			4	5	6	7	8	9	10	11	12	13	14	15
2"	Two or Spans	Std Clip	37.8	30.3	24.7	20.8	18.0	15.8	14.1	12.8	11.6	10.7	9.9	9.2
		(1) Fablok	67.2	52.8	43.2	36.0	30.2	27.2	27.1	21.9	20.2	18.5	17.0	15.8
		(3) Fablok	89.2	70.0	57.0	48.1	41.2	36.1	32.1	28.8	26.1	24.0	22.4	21.0
3"	Two or Spans	Std Clip	41.0	33.6	28.0	23.6	20.3	17.9	15.9	14.4	13.1	12.0	11.1	10.3
		(1) Fablok	67.8	53.2	43.6	36.4	30.5	27.5	27.4	22.1	20.3	18.6	17.1	15.9
		(3) Fablok	89.8	70.5	57.5	48.5	41.7	36.5	32.5	29.2	26.5	24.3	22.6	21.1
4"	Two or Spans	Std Clip	47.9	38.2	31.2	26.3	22.7	19.9	17.7	15.9	14.5	13.3	12.3	11.4
		(1) Fablok	68.4	53.6	43.9	36.8	30.8	27.8	24.7	22.3	20.4	18.7	17.2	16.0
		(3) Fablok	90.5	71.0	58.0	48.9	42.1	36.9	32.9	29.6	26.9	24.6	22.8	21.2
5"	Two or Spans	Std Clip	58.3	45.8	37.4	31.5	27.2	23.8	21.2	19.1	17.4	15.9	14.7	13.6
		(1) Fablok	68.8	54.0	44.2	37.2	32.1	28.1	25.0	22.5	20.5	18.8	17.3	16.1
		(3) Fablok	91.1	71.5	58.5	49.3	42.5	37.3	33.2	29.9	27.2	24.9	23.0	21.3
6"	Two or Spans	Std Clip	59.7	46.9	38.4	32.4	27.9	24.5	21.8	19.6	17.8	16.3	15.0	13.9
		(1) Fablok	69.2	54.4	44.5	37.6	32.4	28.4	25.3	22.7	20.6	18.9	17.4	16.2
		(3) Fablok	91.7	72.0	59.0	49.7	42.9	37.6	33.5	30.1	27.4	25.1	23.1	23.4
8"	Two or Spans	Std Clip	62.1	48.9	40.1	33.9	29.2	25.6	22.8	20.5	18.6	17.0	15.7	14.6
		(1) Fablok	69.8	54.9	45.1	38.0	32.8	28.8	25.6	23.0	20.9	19.1	17.6	16.4
		(3) Fablok	92.4	72.8	59.7	50.4	43.4	38.1	33.9	30.5	27.7	25.3	23.4	21.7

Notes

1. Based on TC44M panel with 26 ga. Mesa exterior & interior faces (min Fy = 33 ksi).
2. For connection with clips, TC standard and long clips are fastened to min. 14 gage steel with (3) 1/4"-14 SDS DP 3 at all supports. For 12 gage or thicker steel, #12-24 SDS DP 5 may be used. In lieu of self-drilling screws, self-tapping screws may be used.
3. For the fastener patterns with Fablocks and TC standard clip, Fablocks are spaced at 11" o.c. from the panel sidelap.
4. Allowable positive or connection load is the lowest value of panel bending strength, shear strength, deflection limit and connection strength for each fastener pattern.
5. Allowable loads based on panel stress and deflection design criteria are derived from ASTM E72 structural testing and calculated with factor of safety of 2.5 for bending stress, 3.0 for shear stresses and deflection limitation of L/180.
6. The panel connection strength was determined from ASTM E1592 testing and the allowable loads are calculated with factor of safety of 2.
7. The structural capacity of the purlins are not considered and must be examined independently.
8. Multiple spans are based on 2 or more spans conditions.