

Unit: lb (Imperial)

REDJACK 2.5, TOP PLATE: PL (4.5 x 6) / A (3.5 x 5.25)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	1-3/4" SCL ($f_{cp} = 1,365$ psi) ⁴			D Fir-L			S-P-F		
			1-Ply A (3.5x5.25)	2-Ply A (3.5x5.25)	3-Ply A (3.5x5.25)	2-Ply A (3.5x5.25)	3-Ply PL (4.5x6)	4-Ply PL (4.5x6)	2-Ply A (3.5x5.25)	3-Ply PL (4.5x6)	4-Ply PL (4.5x6)
RJ25x96	13600	21800	10030	20060	20060	12790	21800	21800	9680	16600	16600
RJ25x102	12800	20050	10030	20050	20050	12790	20050	20050	9680	16600	16600
RJ25x108	12200	18400	10030	18400	18400	12790	18400	18400	9680	16600	16600
RJ25x120	10900	15600	10030	15600	15600	12790	15600	15600	9680	15600	15600

REDJACK 2.5, TOP PLATE: B (3.5 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	1-3/4" SCL ($f_{cp} = 1,365$ psi) ⁴			D Fir-L			S-P-F		
			2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ25x96	13600	21800	21800	20060	21800	17050	12790	17050	12910	9680	12910
RJ25x102	12800	20050	20050	20050	20050	17050	12790	17050	12910	9680	12910
RJ25x108	12200	18400	18400	18400	18400	17050	12790	17050	12910	9680	12910
RJ25x120	10900	15600	15600	15600	15600	15600	12790	15600	12910	9680	12910

REDJACK 2.5, TOP PLATE: C (5.25 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	1-3/4" SCL ($f_{cp} = 1,365$ psi) ⁴			D Fir-L			S-P-F		
			2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ25x96	13600	21800	21800	21800	21800	17050	21800	21800	12910	19370	19370
RJ25x102	12800	20050	20050	20050	20050	17050	20050	20050	12910	19370	19370
RJ25x108	12200	18400	18400	18400	18400	17050	18400	18400	12910	18400	18400
RJ25x120	10900	15600	15600	15600	15600	15600	15600	15600	12910	15600	15600

RedJack 2.5, TOP PLATE: D (7 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	1-3/4" SCL ($f_{cp} = 1,365$ psi) ⁴			D Fir-L			S-P-F		
			2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ25x96	13600	21800	21800	21800	21800	17050	21800	21800	12910	19370	21800
RJ25x102	12800	20050	20050	20050	20050	17050	20050	20050	12910	19370	20050
RJ25x108	12200	18400	18400	18400	18400	17050	18400	18400	12910	18400	18400
RJ25x120	10900	15600	15600	15600	15600	15600	15600	15600	12910	15600	15600

1) Column Allowable Loads have been determined through testing standards prescribed in the National Research Council Evaluation Directive for Adjustable Steel Columns using a safety factor of 2.25.

2) Column Factored Resistance is limited by the tube's axial compressive strength. The depicted values are established in accordance with CSA S16.

3) Factored Bearing Resistances are for standard term loading; reduce for other load durations in accordance to the code.

4) SCL Factored Bearing Resistance assumes 1-3/4" ply width and specified compression perpendicular to grain $f_{cp} = 1,365$ psi. For beams of weaker specified f_{cp} or smaller width, calculate the Factored Beam Bearing Resistance as follows: overall beam width x plate length x f_{cp} x 0.8.

Use the minimum of the calculated "Factored Beam Bearing Resistance" and the "Factored Resistance of the Column Capacity supporting steel beam" as the Factored Resistance of the column supporting the respective beam.

5) Grey shades: Rotate plate to fit, beam width parallel with the longer side of the plate.

6) Column is not capable of resisting lateral or uplift load.