

Unit: lb (Imperial)

REDJACK 3.0, TOP PLATE: A (3.5 x 5.25)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
			1-3/4" SCL (f _{cp} = 1,365 psi) ⁴			D Fir-L			S-P-F		
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	1-Ply	2-Ply	3-Ply	1-Ply	2-Ply	3-Ply	1-Ply	2-Ply	3-Ply
RJ30x90	35500	46400	10030	20060	20060	6390	12790	12790	4840	9680	9680
RJ30x96	32100	43400									
RJ30x102	30000	40300	10030	20060	20060	6390	12790	12790	4840	9680	9680
RJ30x108	28300	37600									
RJ30x114	27500	35100	10030	20060	20060	6390	12790	12790	4840	9680	9680
RJ30x120	26800	32700									
RJ30x144	21300	24800	10030	20060	20060	6390	12790	12790	4840	9680	9680
REDJACK 3.0, TOP PLATE: B (3.5 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
			1-3/4" SCL (f _{cp} = 1,365 psi) ⁴			D Fir-L			S-P-F		
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ30x90	35500	46400	26750	20060	26750	17050	12790	17050	12910	9680	12910
RJ30x96	32100	43400									
RJ30x102	30000	40300	26750	20060	26750	17050	12790	17050	12910	9680	12910
RJ30x108	28300	37600									
RJ30x114	27500	35100	26750	20060	26750	17050	12790	17050	12910	9680	12910
RJ30x120	26800	32700									
RJ30x144	21300	24800	24800	20060	24800	17050	12790	17050	12910	9680	12910
REDJACK 3.0, TOP PLATE: C (5.25 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
			1-3/4" SCL (f _{cp} = 1,365 psi) ⁴			D Fir-L			S-P-F		
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ30x90	35500	46400	26750	40130	40130	17050	25580	25580	12910	19370	19370
RJ30x96	32100	43400									
RJ30x102	30000	40300	26750	40130	40130	17050	25580	25580	12910	19370	19370
RJ30x108	28300	37600		37600	37600						
RJ30x114	27500	35100	26750	35100	35100	17050	25580	25580	12910	19370	19370
RJ30x120	26800	32700		32700	32700						
RJ30x144	21300	24800	24800	24800	24800	17050	24800	24800	12910	19370	19370
REDJACK 3.0, TOP PLATE: D (7 x 7)											
MiTek Stock No.	Column Capacity (supporting steel beam)		Factored Bearing Resistance, 100% (lb) ^{3,5}								
			1-3/4" SCL (f _{cp} = 1,365 psi) ⁴			D Fir-L			S-P-F		
	Allowable Load (lb) ¹	Factored Resistance (lb) ²	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply	2-Ply	3-Ply	4-Ply
RJ30x90	35500	46400	26750	40130	46400	17050	25580	34110	12910	19370	25820
RJ30x96	32100	43400			43400						
RJ30x102	30000	40300	26750	40130	40300	17050	25580	34110	12910	19370	25820
RJ30x108	28300	37600		37600	37600						
RJ30x114	27500	35100	26750	35100	35100	17050	25580	34110	12910	19370	25820
RJ30x120	26800	32700			32700			32700			
RJ30x144	21300	24800	24800	24800	24800	17050	24800	24800	12910	19370	24800

- 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.