

Unit: lb (Imperial)

BLACKJACK 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
BJ30x96	24000	36100	10030	20060	20060	6390	12790	12790	4840	9680	9680
BJ30x102	22900	33650	10030	20060	20060	6390	12790	12790	4840	9680	9680
BJ30x108	22300	31400									
BJ30x120	21900	27200	10030	20060	20060	6390	12790	12790	4840	9680	9680
BLACKJACK 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
BJ30x96	24000	36100	26750	20060	26750	17050	12790	17050	12910	9680	12910
BJ30x102	22900	33650	26750	20060	26750	17050	12790	17050	12910	9680	12910
BJ30x108	22300	31400									
BJ30x120	21900	27200	26750	20060	26750	17050	12790	17050	12910	9680	12910
BLACKJACK 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
BJ30x96	24000	36100	26750	36100	36100	17050	25580	25580	12910	19370	19370
BJ30x102	22900	33650	26750	33650	33650	17050	25580	25580	12910	19370	19370
BJ30x108	22300	31400		31400	31400						
BJ30x120	21900	27200	26750	27200	27200	17050	25580	25580	12910	19370	19370
BLACKJACK 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
BJ30x96	24000	36100	26750	36100	36100	17050	25580	34110	12910	19370	25820
BJ30x102	22900	33650	26750	33650	33650	17050	25580	33650	12910	19370	25820
BJ30x108	22300	31400		31400	31400			31400			
BJ30x120	21900	27200	26750	27200	27200	17050	25580	27200	12910	19370	25820

- 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.