BLACKJACK 2.5 ADJUSTABLE SUPPORT COLUMNS

Adjustable Support Column BLACKJACK 2.5 is designed and tested to meet or exceed the CAN/CGSB-7.2-94 Adjustable Steel Columns standard.

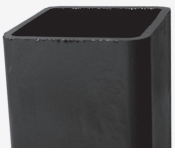
Materials: Tube: 2-1/2" x 2-1/2"; 11 gauge;
Top Plate: 3-1/2" x 6"; 3/8" thick;
Bottom Plate: 4-1/2" x 6"; 3 gauge

Finish: Tube - Powder-coated Black Paint;
Plates – Grey primer Paint

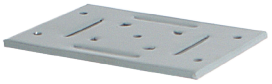
Installation:

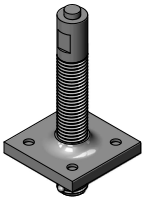
- Ensure column is installed in a vertical and plumb position.
- Column base shall be aligned and secured to a proper supporting slab.
- Top plate shall cover the full width of the supported beam. Beam shall be centered on the top plate and continuous across the entire length of the plate.
- For multiple ply beams, ensure to laminate plies together to act as a single member.
- Square tube may be cut down, ensure cut is smooth, square and level.
- Rotate jack screw to desired height. Secure the top plate to beam with four (4) 1/4" x 2" screws for wood beam, self tapping screws or tack weld for steel beam.

BLACKJACK 2.5


Square tube may be cut (cut must be smooth and square)


Top Plate


Bottom Plate


BLACKJACK 2.5 Adjustment Assembly

PERMIT TO PRACTICE
MITEK CANADA INC.
Signature _____
Date May 6, 2026
PERMIT NUMBER: P 3837
The Association of Professional Engineers and Geoscientists of Alberta
RM APEGA ID: 164823

APEGA
Permit No. P3837
PROFESSIONAL ENGINEER JOANNA TING ALBERTA
APEGA ID: 164823
May 6, 2026

MiTek Stock No.	Adjustable Height in	Adjustable Height mm	Extended Length in	Extended Length mm	Column Capacity (supporting steel beam) Allowable Load [1] lb	Allowable Load [1] kN	Factored Resistance [2] lb	Factored Resistance [2] kN	No. of Plies	Factored Bearing Resistance, 100% [3] SCL (f_{cp} = 1,365 psi) [4] lb	SCL (f_{cp} = 1,365 psi) [4] kN	D Fir-L lb	D Fir-L kN	S-P-F lb	S-P-F kN
BJ25x90	86 - 90	2184 - 2286	90	2286	10000	44.5	14400	64.1	1-Ply	11465	51.0	7310	32.5	5535	24.6
									2-Ply	14400	64.1	14400	64.1	11070	49.2
BJ25x110	106 - 110	2692 - 2794	110	2794					3-Ply [6]	--	--	12790	56.9	9685	43.1
									4-Ply [6]	--	--	14400	64.1	12915	57.4

1) Column Allowable Load has 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) The Factored Resistance of the column is soft converted by multiplying the Allowable Load by 1.44.

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

4) SCL Factored Bearing Resistance assumes 1-3/4" ply width and specified compression perpendicular to grain f_{cp} = 1,365 psi (9.4 MPa). 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) D Fir-L and S-P-F beams assume 1.5" ply width.

6) For 3-ply or 4-ply 2x beams, rotate plate to ensure full plate coverage over the width of the beam.

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

Expiry: Apr. 30, 2028

Refer to MiTek's current Canadian Structural Products Catalogue for general design notes and installation information.

MITEK.CA

#2320 | 03242026