

ENGINEERING REPORT

PRODUCT:

Bezdan Stainless Square Post System: 34" and 34.5" Posts, Interior Applications

CODES MET:

NBC 2015, BCBC 2018 & OBC 2017

DATE:

October 28, 2021

Corbally Consulting Ltd. has prepared an engineering report
for the Bezdan Stainless Steel Post and Rail System.
See pages 2 - 3 to view the condensed report.

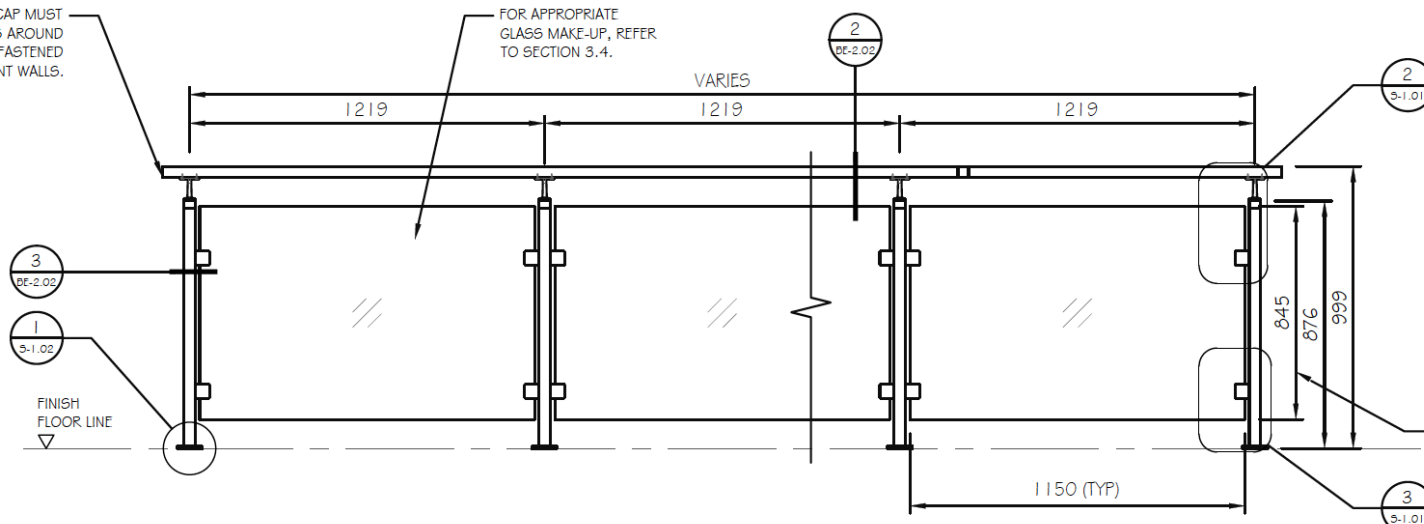


To view the complete report please contact our Customer Service department:

info@geobezdan.com 1 800 663 6356

STRUCTURAL TOP CAP MUST BE CONTINUOUS AROUND CORNERS AND/OR FASTENED TO ADJACENT WALLS.

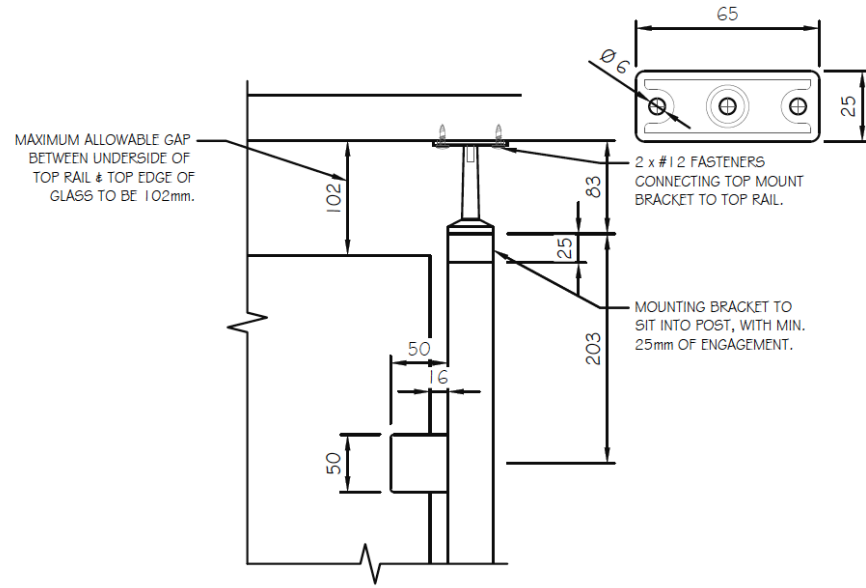
FOR APPROPRIATE GLASS MAKE-UP, REFER TO SECTION 3.4.



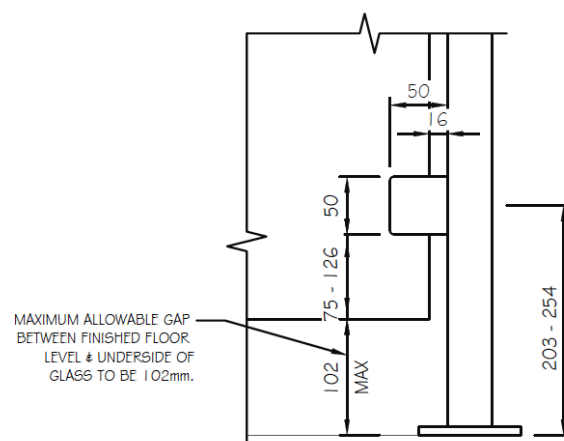
1 ELEVATION
SCALE: 1:20 MTS

GLASS TYPES ANALYZED:

- HEAT-STRENGTHENED / LAMINATED GLASS: 6/6MM GLASS, WITH 0.060" PVB LAMINATION (MEETS NBC 2015 REQ. FOR STRENGTH & ONTARIO'S "SUPPLEMENTARY STANDARD SB-13" FOR SAFETY)
- TEMPERED / LAMINATED GLASS: 6/6MM GLASS, WITH 0.060" PVB LAMINATION (MEETS NBC 2015 REQ. FOR STRENGTH & ONTARIO'S "SUPPLEMENTARY STANDARD SB-13" FOR SAFETY)
- TEMPERED / MONOLITHIC GLASS: 12MM GLASS (MEETS NBC 2015 REQ. FOR STRENGTH, BUT HEAT-SOAKING REQUIRED TO MEET ONTARIO'S "SUPPLEMENTARY STANDARD SB-13" FOR SAFETY)
- TEMPERED / MONOLITHIC GLASS: 6MM GLASS (DOES NOT MEET NBC 2015 REQ. FOR STRENGTH)



2 DETAIL
SCALE: 1:5 MTS



3 DETAIL
SCALE: 1:5 MTS

ANALYSIS CARRIED OUT IS CONSIDERED CONSERVATIVE, AND PANELS MAY BE SHORTER THAN 845MM.

FOR THE INTERIOR INSTALLATION SHOWN, THE BEZDAN STAINLESS STEEL POST AND RAIL SYSTEM MEETS THE REQUIREMENTS OF THE RELEVANT NBC 2015, CBC 2018 & OBC 2017 CLAUSES BELOW.

GUARD RAIL ANALYSIS WAS CARRIED OUT AS PER THE REQUIREMENTS OF THE NBC (NATIONAL BUILDING CODE) 2015, CBC (BRITISH COLUMBIA BUILDING CODE) 2018 AND OBC (ONTARIO BUILDING CODE) 2017.

THE BEZDAN STAINLESS STEEL POST AND RAIL SYSTEM WAS ANALYZED FOR INTERIOR INSTALLATIONS ONLY. NO EXTERIOR WIND LOAD OR GUARD HEIGHT WAS CONSIDERED.

ALL SECTIONS REFERENCED WITHIN THESE DRAWINGS ARE CONTAINED WITHIN CORBALLY CONSULTING REPORT: "ENGINEERING REPORT FOR STAINLESS STEEL POST AND RAIL SYSTEM," WHICH SHOULD BE READ IN CONJUNCTION WITH THESE DRAWINGS.

ANALYSIS WAS CARRIED OUT USING THE FOLLOWING APPROPRIATE STANDARDS:

GLASS DESIGN

DESIGN BASIS FOR GLASS: NBC 2015 - SECTION 4.3.6.1. (1) (STRUCTURAL SUFFICIENCY OF GLASS), AS PER NBC 2015 - SECTION 9.6.1.3. (1).

GLASS DESIGN: CAN C658 12.20-M89, "STRUCTURAL DESIGN OF GLASS FOR BUILDING," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

STAINLESS STEEL DESIGN

STAINLESS STEEL MATERIAL PROPERTIES: ASCE 8-02, "DESIGN OF COLD FORMED STAINLESS STEEL STRUCTURAL MEMBERS," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

STEEL DESIGN: CSA S16-19, "DESIGN OF STEEL STRUCTURES," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

CONNECTIONS

STEEL CONNECTIONS: CSA S16-19, "DESIGN OF STEEL STRUCTURES," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

CONCRETE CONNECTIONS: CSA A23.3-14, "DESIGN OF CONCRETE STRUCTURES," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

WOOD CONNECTIONS: CSA O86-14, "ENGINEERING DESIGN IN WOOD," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

1	REVISION 1	10/28/21
No.	ISSUE / REVISION	MM/DD/YY

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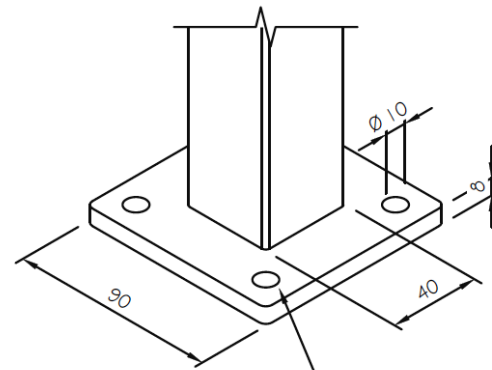
BEZDAN METAL & GLASS REVIEW

4050 GRAVELEY ST, BURNABY, BC V5C 4A5

METAL & GLASS REVIEW

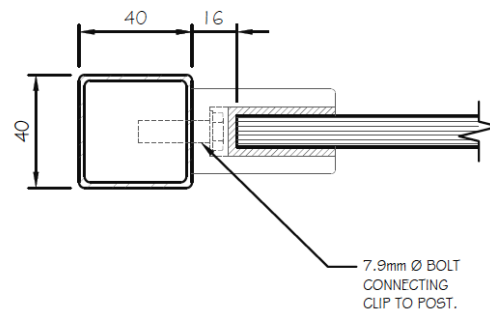
BEZDAN STAINLESS STEEL POST & RAIL SYSTEM

DATE:	OCTOBER 2021	DRAWING No:	S-1.01
SCALE:	AS SHOWN		
DESIGNED:	DOH		
DRAWN:	M	PROJECT No:	CC21-042
REVIEWED:	DOH		



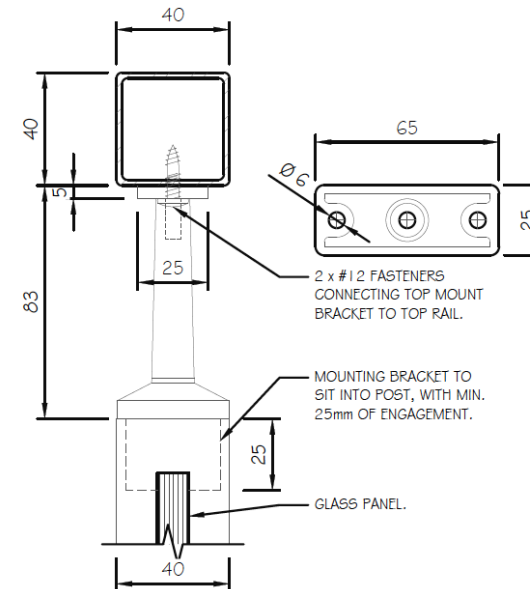
FOR FASTENING TO STEEL, REFER TO SECTION 3.5.1.
FOR FASTENING TO CONCRETE, REFER TO SECTION 3.5.2.
FOR FASTENING TO WOOD, REFER TO SECTION 3.5.3.

1 ISOMETRIC
SCALE: 1:2 MTS



7.9mm Ø BOLT
CONNECTING
CLIP TO POST.

3 SECTION
SCALE: 1:2 MTS



2 SECTION
SCALE: 1:2 MTS



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METAL & GLASS REVIEW

BEZDAN STAINLESS STEEL POST & RAIL SYSTEM

DATE:	OCTOBER 2021	DRAWING No:
SCALE:	AS SHOWN	S-1.02
DESIGNED:	DOH	
DRAWN:	M	PROJECT No:
REVIEWED:	DOH	CC21-042