

# ENGINEERING REPORT

**PRODUCT:**

Stainless Steel Fascia Mount Single Standoff & Double Standoff

**CODES MET:**

NBC 2015, BCBC 2018 & OBC 2017

**DATE:**

September 28, 2021

Corbally Consulting Ltd. has prepared an engineering report for the Stainless Steel Fascia Mount Single Standoff & Double Standoff. See pages 2 - 4 to view the condensed report.



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

**[info@geobezdan.com](mailto:info@geobezdan.com) 1 800 663 6356**

THE BEZDAN SINGLE AND DOUBLE ADAPTERS INSTALLED IN THE CONFIGURATIONS SHOWN MEET THE REQUIREMENTS OF THE RELEVANT NBC 2015, BCBC 2018 & OBC 2017 CLAUSES BELOW.

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

WIND LOAD: NBC 2015 - SECTION 4.1.7.1. - CLAUSE 5, WITH NBC 2015 STRUCTURAL COMMENTARY - FIG. 1-24 FOR FREESTANDING WALLS.

GUARD LOADS: NBC 2015 - SECTION 4.1.5.14. # TABLE 9.8.8.2.

GUARD HEIGHT REQUIREMENTS: NBC 2015 - SECTION 9.8.8.3. - CLAUSE 1.

LOAD COMBINATIONS: NBC 2015 - TABLE 4.1.3.2.-A.

ALL TABLES REFERENCED WITHIN THESE DRAWINGS ARE CONTAINED WITHIN JRS REPORT: "ENGINEERING REPORT FOR STAINLESS STEEL NON-ADJUSTABLE SINGLE AND DOUBLE ADAPTERS (STANDOFFS)," 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: NBC 2015 - SECTION 9.6.1.3. (1).

GLASS DESIGN: CAN CGSB 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**

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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**

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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 O8C-14, "ENGINEERING DESIGN IN WOOD," WHICH IS REFERENCED WITHIN NBC 2015 - SECTION 1.3 (ACCEPTABLE EDITIONS) - TABLE 1.3.1.2.

No.	REVIEW	DATE
1	REVIEW	09/22/21
2	ISSUE / REVISION	MM/DD/YY

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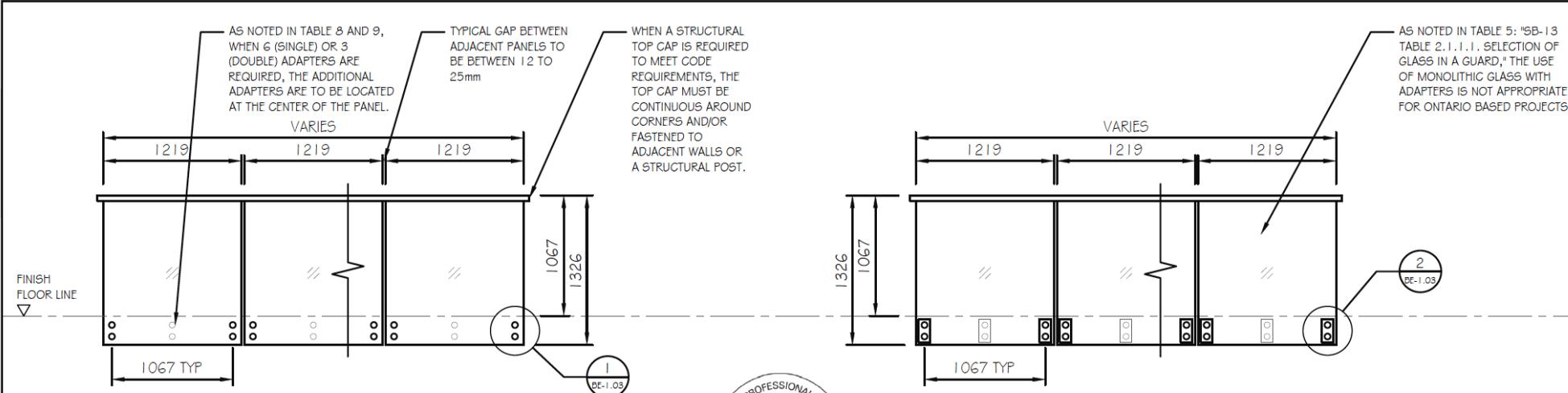
**BEZDAN METAL & GLASS REVIEW**

4050 GRAVELEY ST. BURNABY, BC V5C 4A5

**METAL & GLASS REVIEW**

**GUARD RAIL ELEVATIONS - TEMPERED / MONOLITHIC GLASS w/ STRUCTURAL TOPCAP**

DATE:	SEPTEMBER 2021	DRAWING No:	<b>BE-1.01</b>
SCALE:	AS SHOWN		
DESIGNED:	DOH		
DRAWN:	MC	PROJECT No:	
REVIEWED:	DOH	VR20086A	



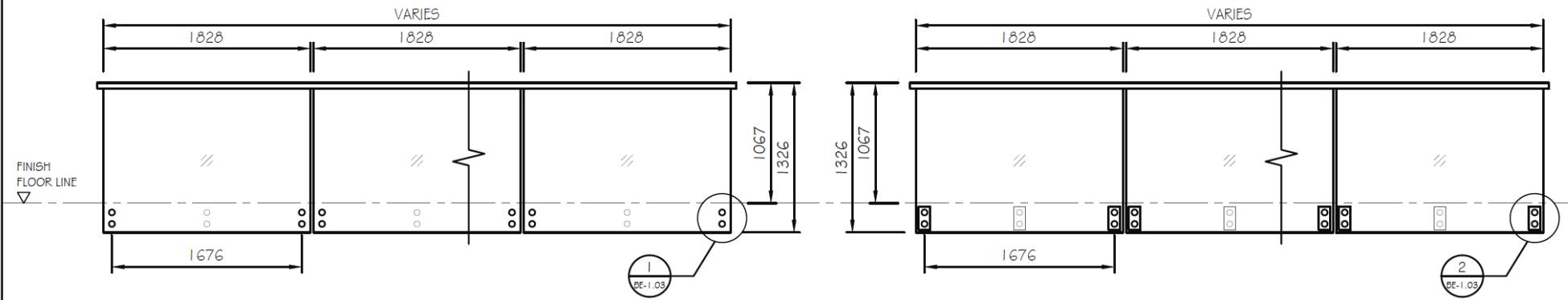
NOTE:  
- FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 1 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.

**1**  
SINGLE ADAPTER - TEMPERED / MONOLITHIC GLASS w/ STRUCTURAL TOP CAP - 1219mm WIDE PANEL  
SCALE: 1:40 MTS



NOTE:  
- FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 1 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.

**2**  
DOUBLE ADAPTER - TEMPERED / MONOLITHIC GLASS w/ STRUCTURAL TOP CAP - 1219mm WIDE PANEL  
SCALE: 1:40 MTS



NOTE:  
- FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 1 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.

**3**  
SINGLE ADAPTER - TEMPERED / MONOLITHIC GLASS w/ STRUCTURAL TOP CAP - 1828mm WIDE PANEL  
SCALE: 1:40 MTS

NOTE:  
- FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 1 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.

**4**  
DOUBLE ADAPTER - TEMPERED / MONOLITHIC GLASS w/ STRUCTURAL TOP CAP - 1828mm WIDE PANEL  
SCALE: 1:40 MTS

NOTE: ALL DIMENSIONS IN MILLIMETERS.

THE BEZDAN SINGLE AND DOUBLE ADAPTERS INSTALLED IN THE CONFIGURATIONS SHOWN MEET THE REQUIREMENTS OF THE RELEVANT NBC 2015, BCBC 2018 & OBC 2017 CLAUSES BELOW.

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

WIND LOAD: NBC 2015 - SECTION 4.1.7.1 - CLAUSE 5, WITH NBC 2015 STRUCTURAL COMMENTARY - FIG. 1.24 FOR FREESTANDING WALLS.

GUARD LOADS: NBC 2015 - SECTION 4.1.5.14. # TABLE 9.8.8.2.

GUARD HEIGHT REQUIREMENTS: NBC 2015 - SECTION 9.8.8.3. - CLAUSE 1.

LOAD COMBINATIONS: NBC 2015 - TABLE 4.1.3.2-A.

ALL TABLES REFERENCED WITHIN THESE DRAWINGS ARE CONTAINED WITHIN JRS REPORT: "ENGINEERING REPORT FOR STAINLESS STEEL NON-ADJUSTABLE SINGLE AND DOUBLE ADAPTERS (STANDOFFS)," 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: NBC 2015 - SECTION 9.6.1.3. (1).

GLASS DESIGN: CAN CGSB 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.

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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.

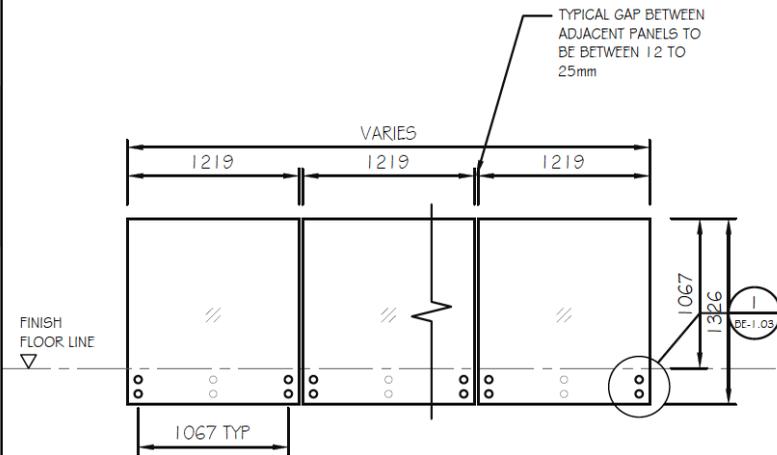
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**METAL & GLASS REVIEW**

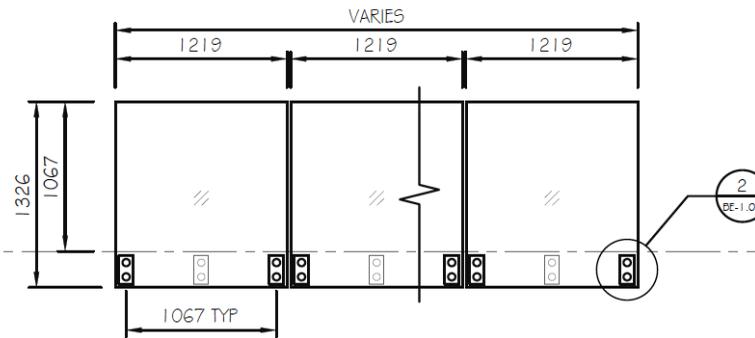
**GUARD RAIL ELEVATIONS - TEMPERED OR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS w/o STRUCTURAL TOPCAP**

DATE:	SEPTEMBER 2021	DRAWING No:	<b>BE-1.02</b>
SCALE:	AS SHOWN		
DESIGNED:	DOH		
DRAWN:	MC	PROJECT No:	
REVIEWED:	DOH		VR20086A



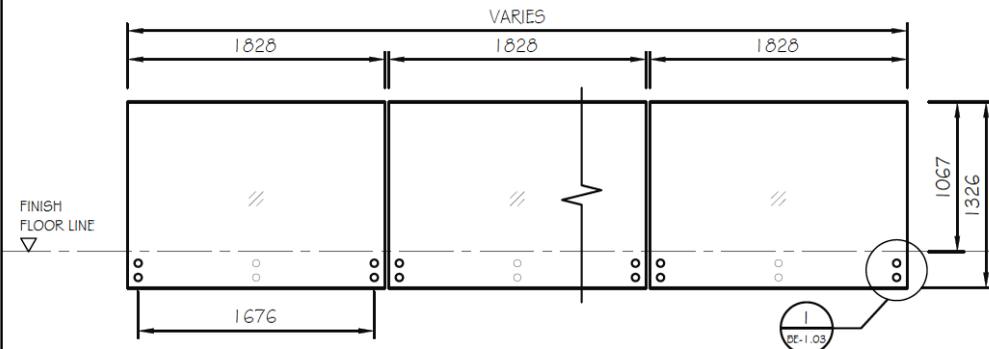
NOTE:  
 - FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 2 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.  
 - FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS FOR ONTARIO BASED PROJECTS, REFER TO TABLE 3 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.

**1**  
 SINGLE ADAPTER - TEMPERED OR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS w/o STRUCTURAL TOP CAP - 1219mm WIDE PANEL  
 SCALE: 1:40 MTS



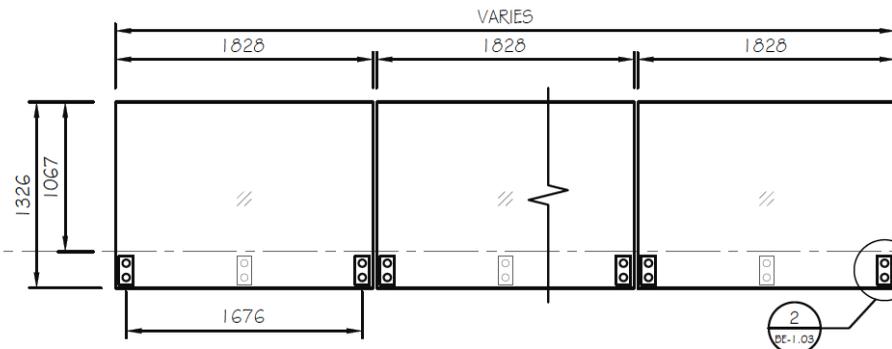
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**2**  
 DOUBLE ADAPTER - TEMPERED OR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS w/o STRUCTURAL TOP CAP - 1219mm WIDE PANEL  
 SCALE: 1:40 MTS



NOTE:  
 - FOR APPROPRIATE GLASS AND ADAPTER REQUIREMENTS, REFER TO TABLE 2 ON PAGE BE-1.04 OF THIS CONDENSED REPORT.  
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**4**  
 SINGLE ADAPTER - TEMPERED OR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS w/o STRUCTURAL TOP CAP - 1828mm WIDE PANEL  
 SCALE: 1:40 MTS



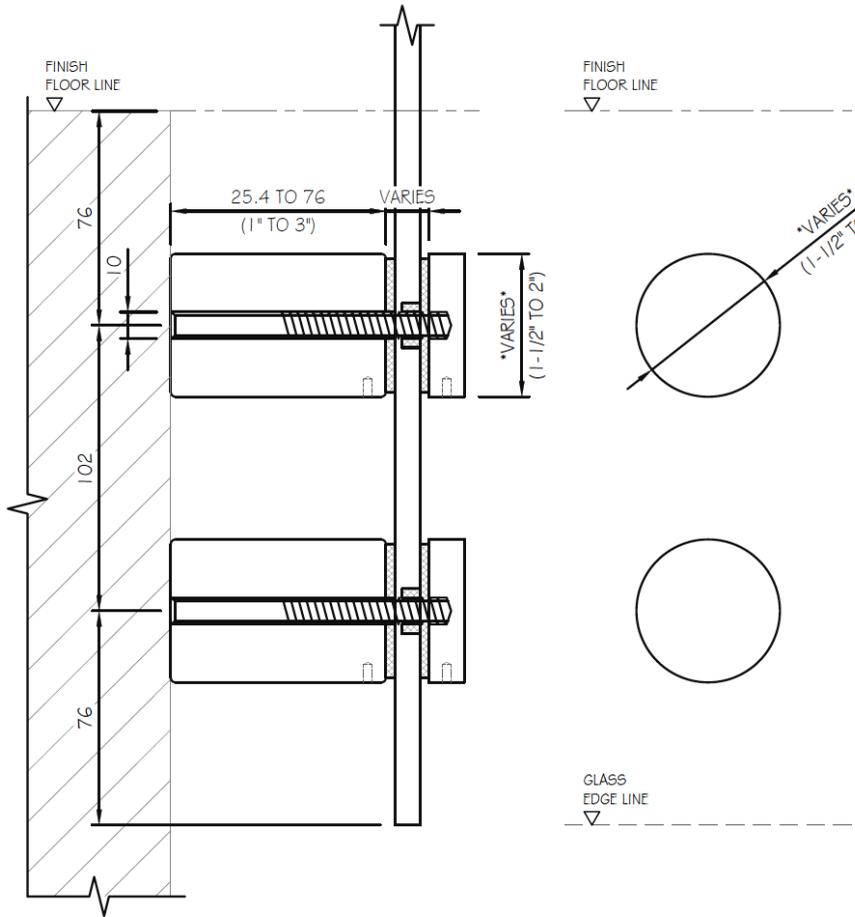
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**4**  
 DOUBLE ADAPTER - TEMPERED OR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS w/o STRUCTURAL TOP CAP - 1828mm WIDE PANEL  
 SCALE: 1:40 MTS

NOTE: ALL DIMENSIONS IN MILLIMETERS.

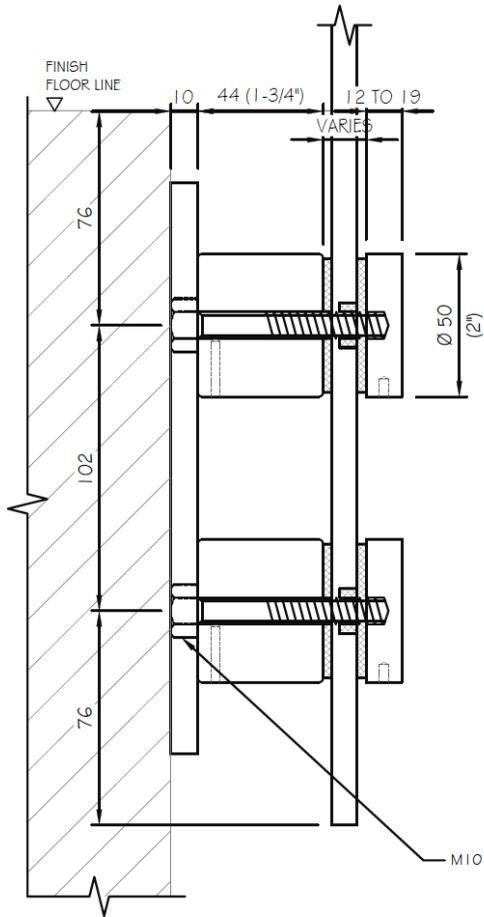
**FASTENING NOTES:**  
 REFER TO THE FOLLOWING TABLES FOR WOOD FASTENING REQUIREMENTS:  
 TABLE 13: "EMBEDMENT REQUIRED FOR WOOD FASTENING WITH SINGLE ADAPTERS AND TEMPERED/MONOLITHIC GLASS WITH STRUCTURAL TOP CAP."  
 TABLE 14: "EMBEDMENT REQUIRED FOR WOOD FASTENING WITH SINGLE ADAPTER AND TEMPERED/LAMINATED (0.060" SGP) ASSEMBLY."  
 TABLE 15: "EMBEDMENT REQUIRED FOR DOUBLE ADAPTER FASTENING TO SPF WITH TEMPERED/MONOLITHIC GLASS WITH STRUCTURAL TOP CAP."  
 TABLE 16: "EMBEDMENT REQUIRED FOR DOUBLE ADAPTER FASTENING TO D-FIR WITH TEMPERED/MONOLITHIC GLASS WITH STRUCTURAL TOP CAP."  
 TABLE 17: "EMBEDMENT REQUIRED FOR DOUBLE ADAPTER FASTENING TO SPF WITH TEMPERED/LAMINATED (0.060" SGP) ASSEMBLY."  
 TABLE 18: "EMBEDMENT REQUIRED FOR DOUBLE ADAPTER FASTENING TO D-FIR WITH TEMPERED/LAMINATED (0.060" SGP) ASSEMBLY."  
 TABLE 19: "EMBEDMENT REQUIRED FOR SINGLE ADAPTER FASTENING TO SPF/D-FIR WITH HEAT STRENGTHENED / LAMINATED (0.060" SGP) ASSEMBLY IN ONTARIO."  
 REFER TO SECTION 3.4.2 FOR CONCRETE FASTENING REQUIREMENTS.  
 REFER TO SECTION 3.4.3 FOR STEEL FASTENING REQUIREMENTS.

GLASS HOLE SIZE TO ACCEPT ADAPTER:  
 DRILL HOLE CANT EXCEED 1.02" AS IT WILL AFFECT THE INTEGRITY OF THE GLASS PANEL.



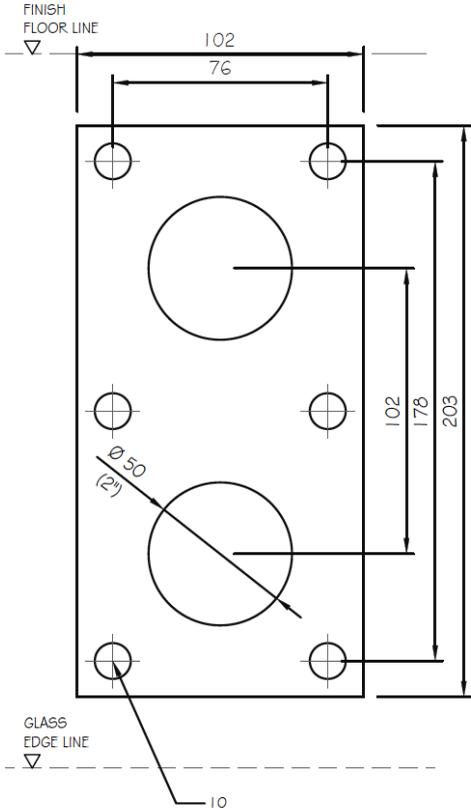
SECTION

ELEVATION



SECTION

ELEVATION



1 DETAIL 1  
 SCALE: 1:2 MTS



2 DETAIL 2  
 SCALE: 1:2 MTS

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GUARD RAIL DETAILS

DATE:	SEPTEMBER 2021	DRAWING No:	BE-1.03
SCALE:	AS SHOWN		
DESIGNED:	DOH		
DRAWN:	MG	PROJECT No:	VR20086A
REVIEWED:	DOH		

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GUARD HEIGHT REQUIREMENTS: NBC 2015 - SECTION 9.8.8.3. - CLAUSE 1.

LOAD COMBINATIONS: NBC 2015 - TABLE 4.1.3.2.-A.

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**BEZDAN METAL & GLASS REVIEW**

4050 GRAVELEY ST. BURNABY, BC V5C 4A5

**METAL & GLASS REVIEW**

**ADAPTER REQUIREMENTS**

DATE:	SEPTEMBER 2021	DRAWING No:	<b>BE-1.04</b>
SCALE:	NA		
DESIGNED:	DOH		
DRAWN:	MC	PROJECT No:	
REVIEWED:	DOH	VR20086A	

ADAPTER	PANEL WIDTH	ADAPTERS REQUIRED		GLASS THICKNESS REQUIRED
		INTERIOR	EXTERIOR	
SINGLE	1219mm	4	6	12mm
	1828mm	4	6	16mm
DOUBLE	1219mm	2	3	12mm
	1828mm	2	3	16mm

**1**  
ADAPTER REQUIREMENTS FOR TEMPERED / MONOLITHIC GLASS W/ STRUCTURAL TOP CAP FOR INTERIOR & EXTERIOR APPLICATIONS

ADAPTER	PANEL WIDTH	ADAPTERS REQUIRED		GLASS THICKNESS REQUIRED
		INTERIOR	EXTERIOR	
SINGLE	1219mm	6	6	10/10mm
	1828mm	8	8	10/10mm
DOUBLE	1219mm	3	4	See Note 9 of Table 10
	1828mm	4	4	See Note 9 of Table 10

**3**  
ADAPTER REQUIREMENTS FOR HEAT-STRENGTHENED / LAMINATED (0.060" SGP) GLASS WITHOUT STRUCTURAL TOP CAP FOR INTERIOR & EXTERIOR APPLICATIONS

NOTE:  
-TABLES 1, 2 & 3 MIRROR TABLES 8, 9 & 10, RESPECTIVELY, FROM JRS REPORT: "ENGINEERING REPORT FOR STAINLESS STEEL NON-ADJUSTABLE SINGLE AND DOUBLE ADAPTERS."  
-FURTHER INFORMATION RELATED TO ADAPTER REQUIREMENTS, INCLUDING TABLE NOTES, CAN BE FOUND IN THAT REPORT.

ADAPTER	PANEL WIDTH	ADAPTERS REQUIRED		GLASS THICKNESS REQUIRED
		INTERIOR	EXTERIOR	
SINGLE	1219mm	4	4	10/10mm
	1219mm	6	6	8/8mm
DOUBLE	1219mm	2	2	See Note 9 of Table 9
	1219mm	3	3	8/8mm
SINGLE	1828mm	4	4	10/10mm
	1828mm	6	6	8/8mm
DOUBLE	1828mm	2	2	See Note 9 of Table 9
	1828mm	3	3	8/8mm

**2**  
ADAPTER REQUIREMENTS FOR TEMPERED / LAMINATED (0.060" SGP) GLASS WITHOUT STRUCTURAL TOP CAP FOR INTERIOR & EXTERIOR APPLICATIONS

