

Report Of:

- **2019 Alberta Building Code - Part 4**
- **2018 British Columbia Building Code - Part 4**
- **2020 National Building Code of Canada - Part 4**

WARNING

No representation or warranty is given that your particular application of these products complies with relevant building codes or that the fasteners provided or used are appropriate for your application. Therefore consult with professionals and local building officials before beginning work: (i) to ensure compliance with relevant building codes for your application and for your proposed use of fasteners; (ii) to ensure the integrity of the structural components in connection with which these products are to be used; (iii) to identify appropriate safety gear that is to be used during installation such as a safety harness when working above ground; (iv) to ensure that the work area is free from utilities, services and hazards; and, (v) to clarify any instructions or warnings that may not be clear. Work in a safe manner wearing protective gear such as gloves, eyewear, headwear, footwear and clothing. When using tools always comply with operation manuals and instructions. Metal and glass may have sharp edges and could fragment or splinter during or as a result of handling or cutting. Do not use these products in connection with any substance that is or may be harmful or corrosive to the products. Inspect and maintain these products and the structural components that they are used in connection with on a regular basis using professionals when appropriate. These instructions have been prepared for certain standard residential applications. Obtain professional advice for any non-standard or non-residential application.

Peak® RailBlazers® Aluminum Railing System

Engineering Review for Compliance with Canadian Building Codes Part 4

Peak Products Manufacturing Inc.
www.peakproducts.com

Submitted August 30, 2022 by
RDH Building Science Inc.
4333 Still Creek Drive #400
Burnaby BC V5C 6S6



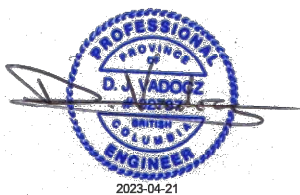
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Appendix A List of Components

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1 Overview

The Peak® RailBlazers® Aluminum Railing System is intended to act as a guard or barrier to protect the public from a fall. The objectives were to complete a structural review of the structural components based in Limit States Design, in accordance with applicable material standards and the Part 4 of the following Canadian building codes:

- Alberta Building Code 2019
- British Columbia Building Code 2018
- National Building Code of Canada 2020

The following specified loads apply:

- Concentrated load of 1 kN applied in any direction at any point along the top of guard.
- Uniformly distributed load of 0.75 kN/m applied in any direction along the top of guard.
- Uniformly distributed vertical load of 1.5 kN/m applied along the top of guard.
- Concentrated infill load of 0.5 kN applied anywhere within the guard.
- Concentrated live load of 0.1 kN applied in opposite directions on two individual infill elements within a guard shall result in an opening size no greater than 100mm.
- Uniform wind load per the limits shown in Appendix B Assembly Drawings

The following structural components were evaluated:

1.1 Infill Elements

- Aluminum pickets 38 mm (1½") wide - Dwg. Title "PEAK® RailBlazers® Railing Assembly with Wide Pickets"
- Glass panels up to 1676 mm (66") wide – Dwg. Title "PEAK® RailBlazers® Railing Assembly with Glass Panel"
- Glass panels 152mm (6") wide - Dwg. Title "PEAK® RailBlazers® Railing Assembly with 6 Inch Glass Panels"

1.2 Rail Elements

- Post – Dwg. Title "Peak® Railblazers® Posts"
- Hand rail – See Report Assembly drawings
- Base rail – See Report Assembly drawings
- Stair hand rail – See Report Assembly drawings
- Stair base rail – See Report Assembly drawings

1.3 Connectors

- Horizontal angle brackets – Dwg. Title “Peak Railblazers® Brackets and Connectors”
- Wall mount brackets – Dwg. Title “Peak® Railblazers® Brackets and Connectors”
- Mid/stair/end fascia mount bracket – Dwg Title “Peak® Railblazers® Fascia Brackets”
- Corner fascia mount bracket – Dwg. Title “Peak® RailBlazers® Fascia Brackets”
- Stair hand and base rail bracket – Dwg. Titles “Aluminum Railing – Stair Railing Assembly with Pickets” and “Aluminum Railing – Stair Railing Assembly with Wide Pickets”

The complete list of all components (including non-structural components) for the system is included in Appendix A.

2 Infill Elements

The primary infill elements include the following:

- Aluminum pickets 38 mm (1½”) wide
- Glass panels of 6mm (1/4”) thick and up to 1676 mm (66”) wide
- Glass panels of 8mm (5/16”) thick and 152 mm (6”) wide

This review is based on information and drawings provided by Peak Products Manufacturing Inc. (Peak) for the elements listed above.

2.1 Aluminum Infill Elements

Our analysis is based on the following information:

- Loads: Prescribed by the Canadian building codes. See Section 1.0 Overview.
- Resistance: Completed in accordance with CAN/CSA S157-17, Strength Design in Aluminum.
- Section properties: Information was provided by Peak. Calculations were completed in accordance with CAN/CSA S157-17.
- Load configuration: Span and bearing lengths were provided by Peak.

2.2 Glass Infill Elements

Our analysis is based on the following information:

- Loads: Prescribed by the Canadian building codes. See Section 1.0 Overview.
- Resistance: Completed in accordance with ASTM E1300-16, Standard Practice for Determining Load Resistance of Glass in Buildings.
- Material: Tempered glass in accordance with ASTM E1300-16 per information and drawings provided by Peak.

- Section properties: Determined from drawings provided by Peak.
- Load configuration: Span and bearing lengths were provided by Peak.
- Allowable deflection: The allowable deflection was calculated based on preventing fall-out of the glass from frame.

3 Rail Elements

3.1 General Rail Elements

The general rail elements include the hand rail, stair hand rail, base rail, and posts. An analysis was completed based on the worst-case configuration for these elements.

- Loads: Prescribed by the Canadian building codes. See Section 1.0 Overview.
- Resistance: Completed in accordance with CAN/CSA S157-17, Strength Design in Aluminum.
- Section properties: Information was provided by Peak. Calculations were completed in accordance with CAN/CSA S157-17.
- Fastener resistance: Completed in accordance with CAN/CSA S16-2021, Design of Steel Structures.
- Load configuration: Span and dimensions were provided by Peak. Posts were modeled as cantilevers, fixed at the base. The results from our analysis show the maximum span that can be achieved, as calculated from the material and fastener resistances.

4 Connectors

4.1 General Connectors

The general connectors included the horizontal angle brackets, wall mount brackets, mid/stair/end fascia mount bracket, corner fascia mount bracket, and stair hand and base rail brackets. An analysis was completed based on the worst-case configuration for these elements.

- Loads: Prescribed by the Canadian building codes. See Section 1.0 Overview.
- Resistance: Completed in accordance with CAN/CSA S157-17, Strength Design in Aluminum and CAN/CSA S16-2021, Design of Steel Structures.
- Section properties: Information was provided by Peak. Calculations were completed in accordance with CAN/CSA S157-17.
- Load configuration: Span and dimensions were provided by Peak.
- Connections to the base building are included as part of this review, including but not limited to the rail and post connections.

5 Results

A full set of calculations and results is presented in RDH's compiled engineering review package. The engineering package includes:

- Dimensioned drawings of each component, including extrusion drawings.
- Calculation sheets for the structural capacity of components listed in 1.0 Overview.

The above documents contain proprietary information, and as such, have not been included in this report.

6 Conclusion

The Peak® RailBlazers® Aluminum Railing System meets the requirements within Part 4 of the Alberta Building Code 2019, British Columbia Building Code 2018, National Building Code of Canada 2020. Limitations of compliance are defined in the assembly drawings presented in Appendix B.

Yours truly,

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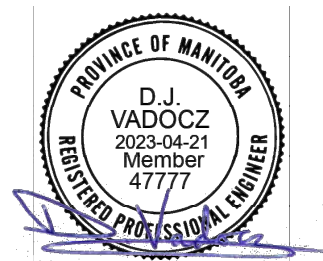


Reviewed by
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RDH Building Science Inc.

Encl. Appendix A – List of Components
 Appendix B – Assembly Drawings

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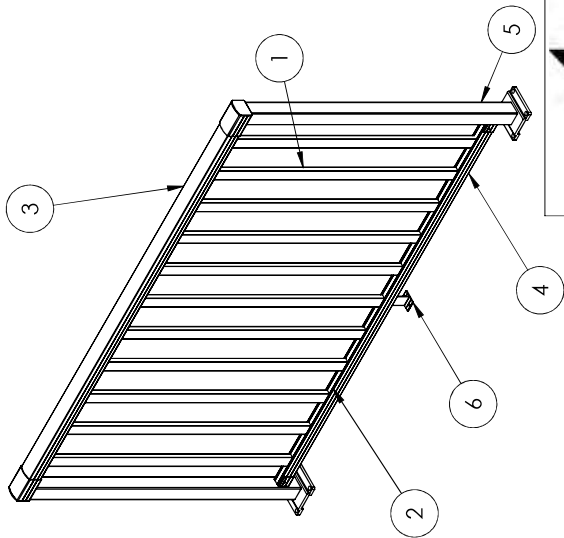
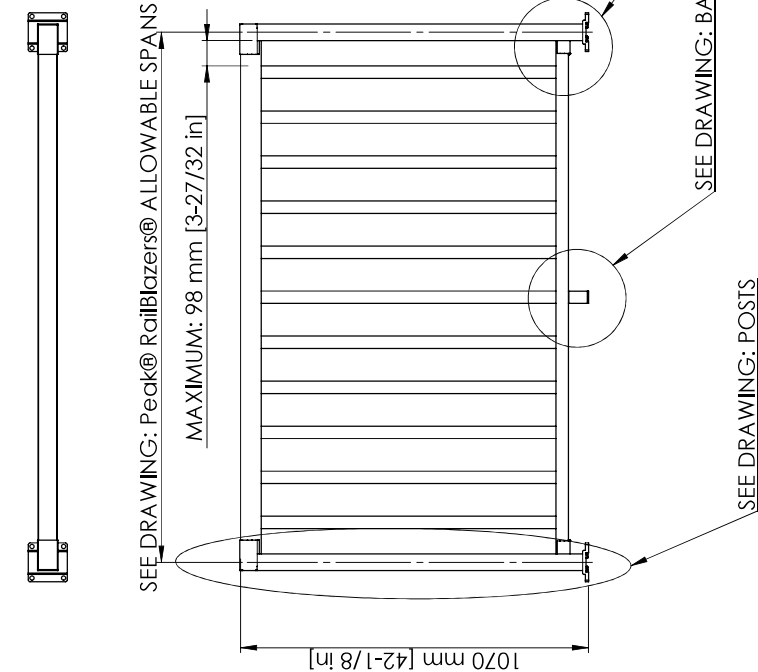
Appendix A

List of Components

SKU (White)	SKU (Matte Black)	Description
91000	91001	END POST
91010	91011	MID POST
91020	91021	CORNER POST
91050	91051	STAIR POST
91100	91101	4' HAND AND BASE RAIL
91110	91111	6' HAND AND BASE RAIL
91300	91301	4' WIDE PICKET AND SPACER
91310	91311	6' WIDE PICKET AND SPACER
91320	91321	6' STAIR RAILING KIT WITH WIDE PICKETS
91920	91921	WALL BRACKET
91930	91931	STAIR BRACKET
90940	90940	6' GLASS GASKET
91950	91951	HORIZONTAL ANGLE BRACKET
91960	91961	CORNER FASCIA BRACKET
91970	91971	MID/END/STAIR FASCIA BRACKET
91710	91710	6" GLASS PANEL KIT - CLEAR
91713	91713	6" GLASS PANEL KIT - TINTED
10820	10820	GLASS PANEL 18 X 36 5/16
10823	10823	GLASS PANEL 21 X 36 5/16
10830	10830	GLASS PANEL 24 X 36 5/16
10833	10833	GLASS PANEL 27 X 36 5/16
10840	10840	GLASS PANEL 30 X 36 5/16
10843	10843	GLASS PANEL 33 X 36 5/16
10850	10850	GLASS PANEL 36 X 36 5/16
10853	10853	GLASS PANEL 39 X 36 5/16
90860	90860	GLASS PANEL 42 X 36 5/16
10863	10863	GLASS PANEL 45 X 36 5/16
10870	10870	GLASS PANEL 48 X 36 5/16
10873	10873	GLASS PANEL 51 X 36 5/16
10880	10880	GLASS PANEL 54 X 36 5/16
10883	10883	GLASS PANEL 57 X 36 5/16
10888	10888	GLASS PANEL 60 X 36 5/16
10891	10891	GLASS PANEL 63 X 36 5/16
90895	90895	GLASS PANEL 66 X 36 5/16

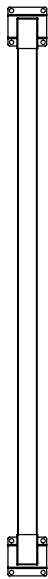
Appendix B

Assembly Drawings



TITLE Peak® RailBlazers® - Railing Assembly with Wide Pickets	
PART FILE	Report assembly P4 64in- wide pickets -ExlBase
DWG REV	A
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
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SIZE	DWG. NO.
B	Report assembly P4 Assembly Wide Pickets - 91XXX
SCALE: 1:15	SHEET NO. 2017-05-16

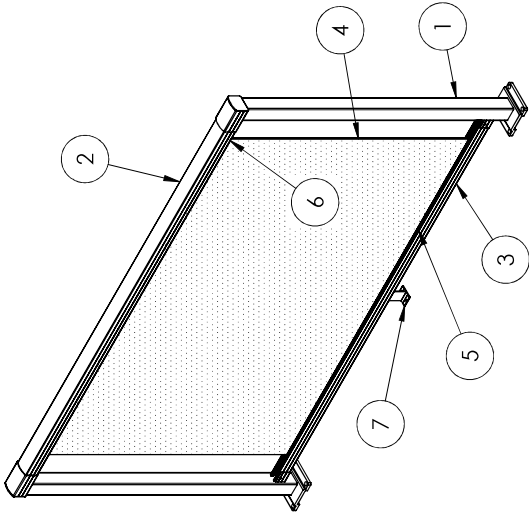
ITEM NO.	DESCRIPTION	SKU
1	WIDE PICKET	91350, 91351
2	SPACER (98 mm)	91350, 91351
3	HAND RAIL	91100, 91101, 91110, 91111
4	BASE RAIL	91100, 91101, 91110, 91111
5	POST	91000, 91001, 91010, 91011, 91020, 91021, 91050, 91051
6	BASE RAIL SUPPORT	91100, 91101, 91110, 91111



SEE DRAWING: Peak® RailBlazers® ALLOWABLE SPANS

MAXIMUM: 100 mm [3-15/16 in]

1070 mm [42-1/8 in]



6 mm [1/4 in] TEMPERED GLASS
CAN/CGSB-12.1-2017

SEE DRAWING: BRACKETS AND CONNECTORS

SEE DRAWING: BASE RAIL SUPPORT

SEE DRAWING: POSTS

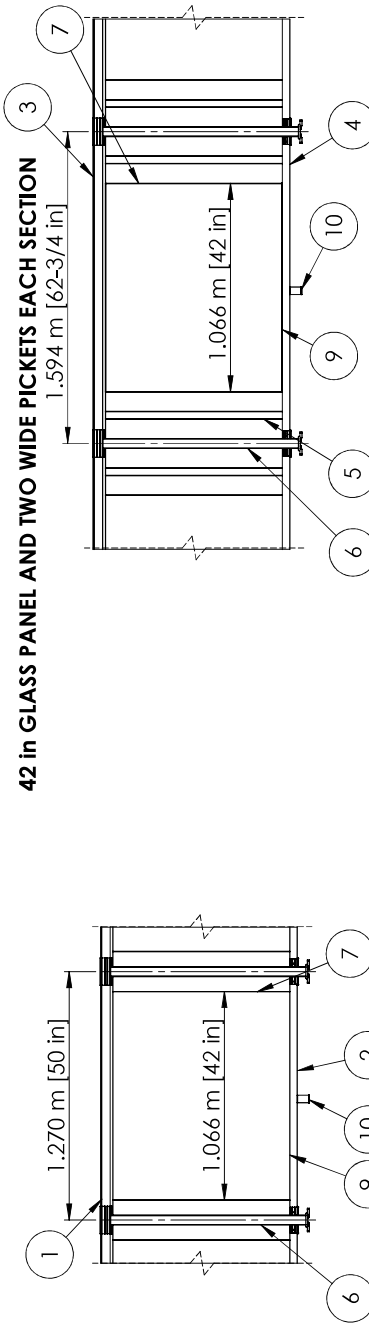


TITLE
Peak® RailBlazers® - Railing
Assembly with Glass Panel

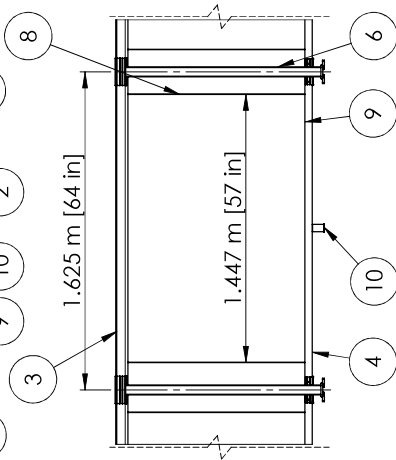
ITEM NO.	DESCRIPTION	SKU
1	POST	91000, 91001, 91010, 91011, 91020, 91021, 91050, 91051
2	HAND RAIL	91100, 91101, 91110, 91111
3	BASE RAIL	91100, 91101, 91110, 91111
4	GLASS PANEL	10820, 10823, 10830, 10833, 10840, 10843, 10850, 10853, 90860, 10863, 10866, 10870, 10873, 10880, 10883, 10888, 10891, 90895
5	LOWER GLASS GASKET	90940
6	UPPER GLASS GASKET	90940
7	BASE RAIL SUPPORT	91100, 91101, 91110, 91111

PART FILE	Report assembly P4 - 64in span- glass panel - ExtBase
DWG REV	A
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
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SIZE	DWG. NO.
B	Report assembly P4 Assembly Glass Panel - 91XXX
SCALE: 1:15	SHEET NO. 2017-05-16

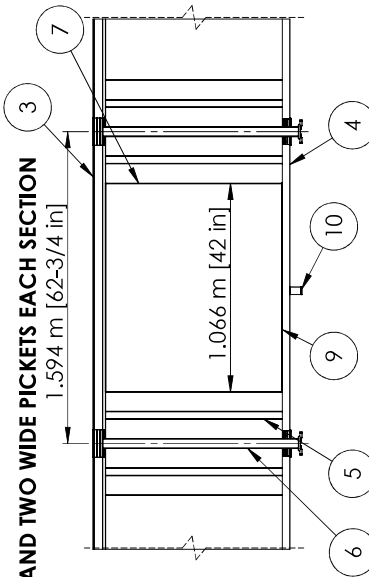
42 in GLASS PANEL



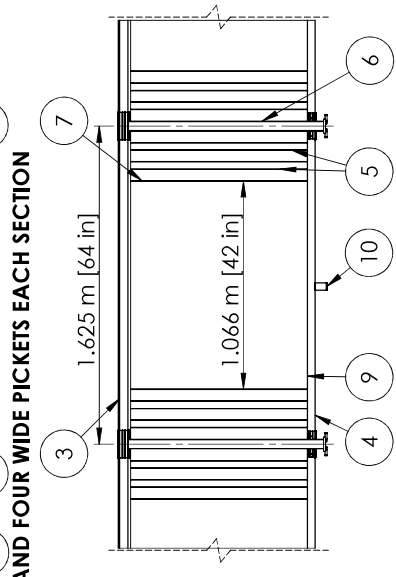
57 in GLASS PANEL



42 in GLASS PANEL AND TWO WIDE PICKETS EACH SECTION



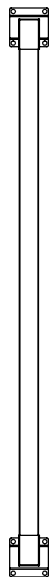
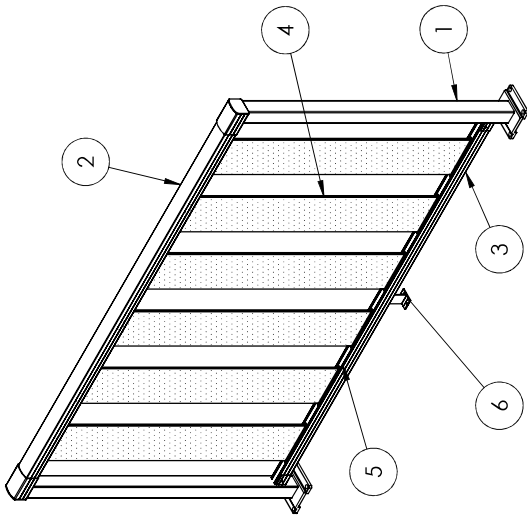
42 in GLASS PANEL AND FOUR WIDE PICKETS EACH SECTION



TITLE
Peak® RailBlazers® - Glass Panel
Configuration Examples

PART FILE		SKU	
Report assembly P4 50in repealing glass panel-ExBare		91100, 91101	
DWG REV		91100, 91101	
A		91110, 91111	
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING		91110, 91111	
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SIZE		91000, 91001, 91010, 91011, 91020, 91021, 91050, 91051	
DWG. NO.		90860	
Report assembly P4 Glass Examples -91XXX		10880	
SCALE: 1:25		90940	
2017-05-16		91100, 91101, 91110, 91111	

ITEM NO.	DESCRIPTION	SKU
1	HAND RAIL 4 FT	91100, 91101
2	BASE RAIL 4 FT	91100, 91101
3	HAND RAIL 6 FT	91110, 91111
4	BASE RAIL 6 FT	91110, 91111
5	WIDE PICKET	91350, 91351
6	POST	91000, 91001, 91010, 91011, 91020, 91021, 91050, 91051
7	GLASS PANEL 42 IN	90860
8	GLASS PANEL 57 IN	10880
9	GLASS GASKET	90940
10	BASE RAIL SUPPORT	91100, 91101, 91110, 91111



SEE DRAWING: Peak® RailBlazers® ALLOWABLE SPANS

MAXIMUM: 96 mm (3-25/32 in)

1070 mm [42-1/8 in]

8 mm [5/16 in] TEMPERED GLASS
CAN/CGSB-12.1-2017

SEE DRAWING: POSTS

SEE DRAWING: BASE RAIL SUPPORT

SEE DRAWING: BRACKETS AND CONNECTORS



TITLE
Peak® RailBlazers® - Railing
Assembly with 6" Glass Panels

PART FILE
Report assembly P4 64in glass pickets -ExtBase

DWG REV
A

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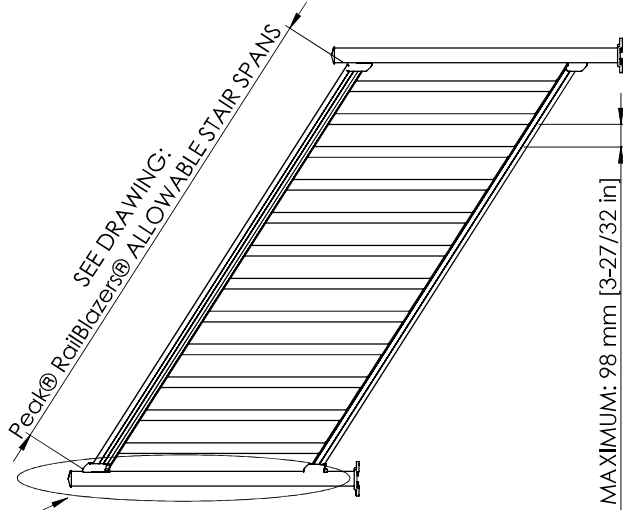
SIZE DWG. NO.

B Report assembly P4 Assembly 6in Glass
Panel-91XXX

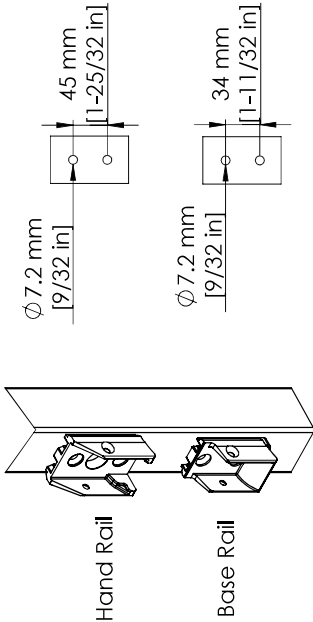
SCALE: 1:15 SHEET
2017-05-16

ITEM NO.	DESCRIPTION	SKU
1	POST	91000, 91001, 91010, 91011, 91020, 91021, 91050, 91051
2	HAND RAIL	91100, 91101, 91110, 91111
3	BASE RAIL	91100, 91101, 91110, 91111
4	6" GLASS PANEL AND GASKET	91710, 91713
5	SPACER	91710, 91713
6	BASE RAIL SUPPORT	91100, 91101, 91110, 91111

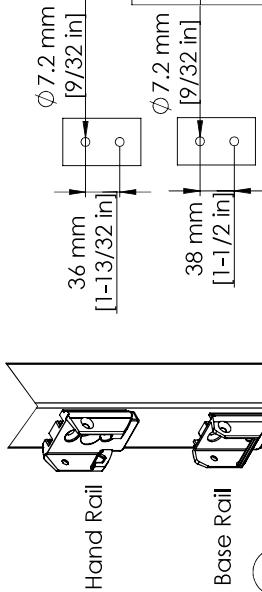
SEE DRAWING: POSTS



UPPER BRACKET MOUNTING TEMPLATE



LOWER BRACKET MOUNTING TEMPLATE



TITLE
Peak® RailBlazers® - Stair Railing
with Wide Pickets

PART FILE
91XXX Stairs

DWG REV
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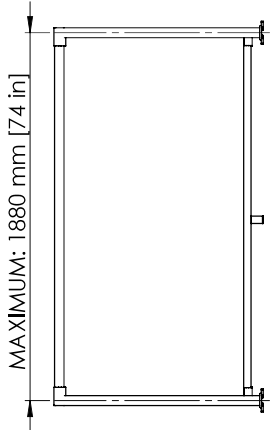
SIZE
DWG. NO.
B

Report assembly P4 Stair Wide Pickets -
91XXX

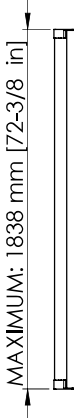
SCALE: 1:15
SHEET NO.
2017-05-16

ITEM NO.	DESCRIPTION	SKU
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2	HAND RAIL	91320, 91321
3	BASE RAIL	91320, 91321
4	WIDE STAIR PICKET	91320, 91321
5	STAIR BRACKETS	91320, 91321, 91930, 91931

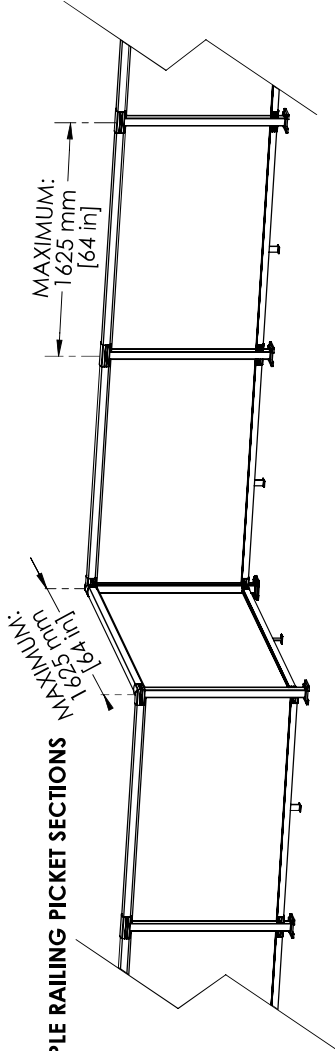
SINGLE RAILING PICKET SECTION



WALL MOUNT PICKET SECTION



MULTIPLE RAILING PICKET SECTIONS



ALLOWABLE SPANS* 6 in GLASS PANELS AND GLASS PANELS UP TO 1.676 m [66 in]

Wind Load	Live Load	Maximum Wall Mount Single Span	Maximum Post Spacing	
			Single Section	Multiple Section
≤ 0.2 kPa (low exposure area)	0.75 kN/m	1.838 m [72-3/8 in]	1.880 m [74 in]	1.625 m [64 in]
≤ 0.67 kPa (low-rise)	0.75 kN/m	1.838 m [72-3/8 in]	1.880 m [74 in]	1.524 m [60 in]
≤ 0.97 kPa (high-rise)	0.75 kN/m	1.838 m [72-3/8 in]	1.880 m [74 in]	1.422 m [56 in]
≤ 1.15 kPa (high-exposure area)	1 kN	1.838 m [72-3/8 in]	1.880 m [74 in]	1.321 m [52 in]

*Note: The above wind loads provided are guidelines for typical building types for a $q_{50} = 0.48 \text{ kPa}$ in rough terrain. Actual wind loads must be determined by a professional engineer for the intended location.



TITLE
Peak® RailBlazers®
- Allowable Spans

PART FILE
Report assembly P4 Span 74in-ExtBase

DWG REV
A

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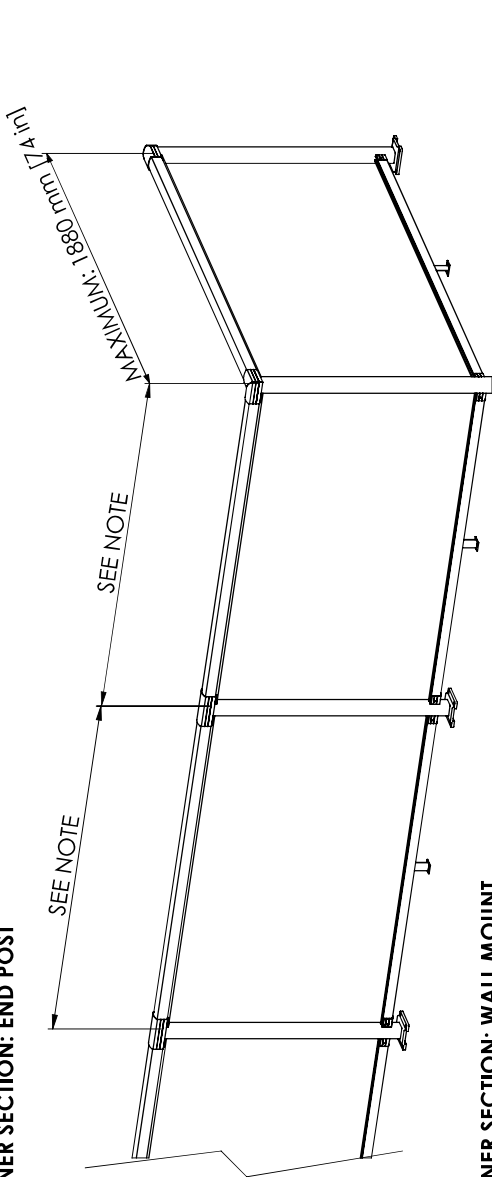
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SIZE
DWG. NO.

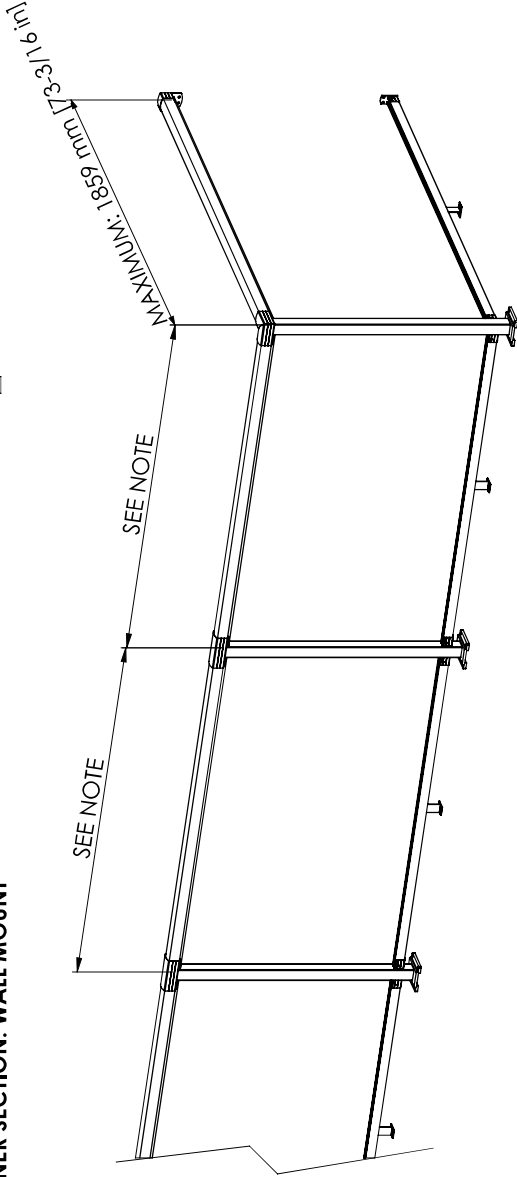
B Report assembly P4 Allowable Spans -91XXX

SCALE: 1:20
SHEET
2017-05-16


L-SHAPED CORNER SECTION: END POST



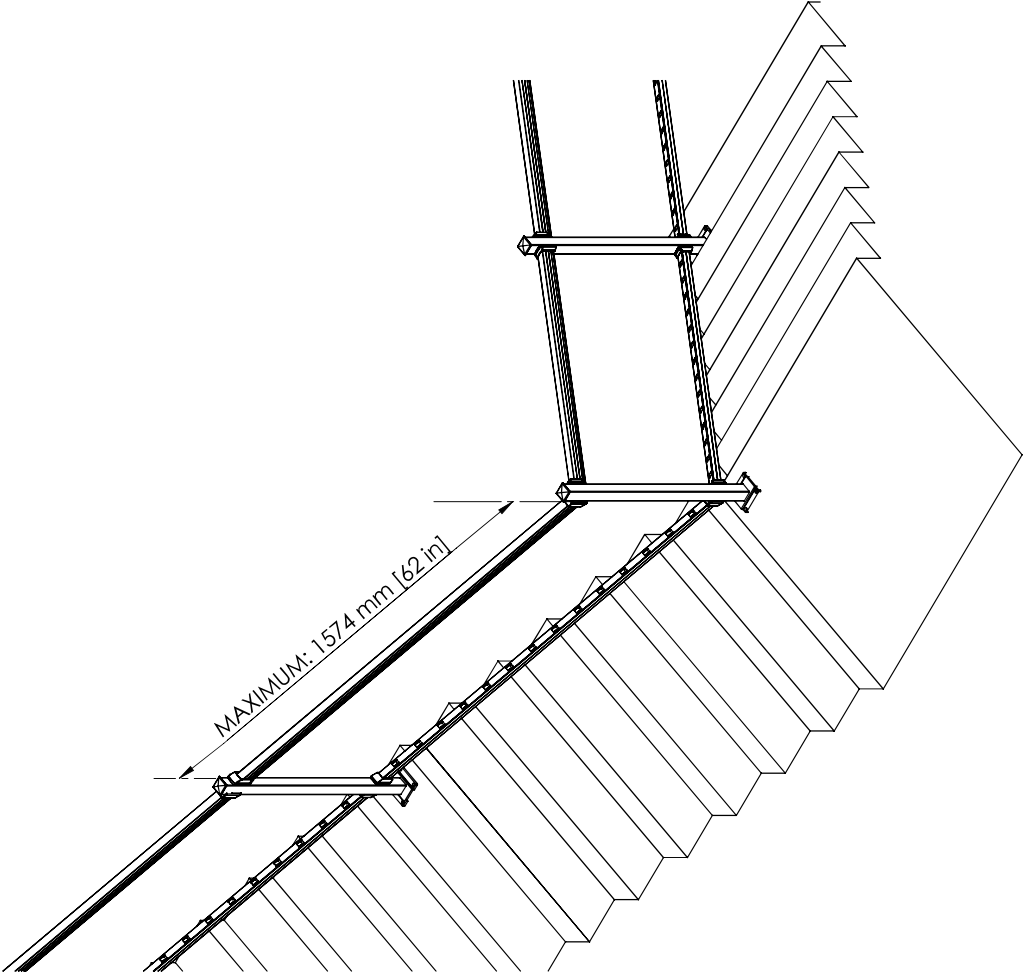
L-SHAPED CORNER SECTION: WALL MOUNT



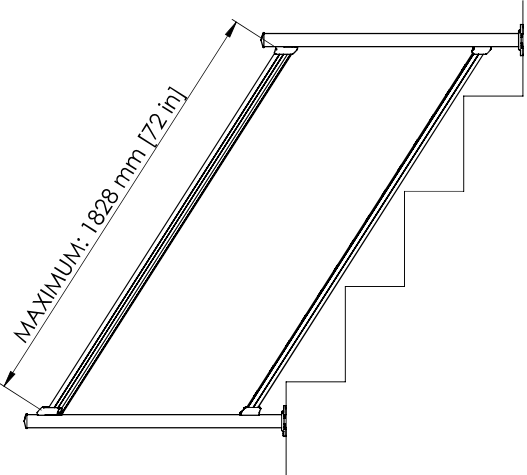
NOTE: Refer to drawing "ALLOWABLE SPANS" for multiple railing section allowable spans.

	
TITLE	Peak® Railblazers® - Allowable Spans - Multiple Spans with Single Return
PART FILE	PEAK RAILBLAZER - RETURN
DWG REV	A
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SIZE	DWG. NO.
B	Report assembly P4 L-Return -91 XXX
SCALE: 1:20	SHEET REV: 2017-05-16

MULTIPLE STAIR RAILING SECTIONS



SINGLE STAIR RAILING SECTION



TITLE
Peak® RailBlazers®
Allowable Stair Spans

PART FILE
Report assembly - stair span single

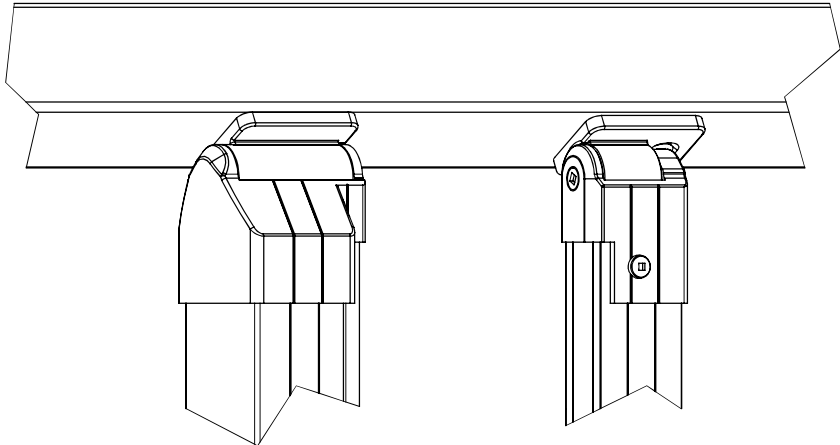
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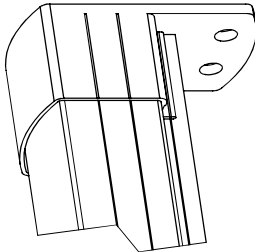
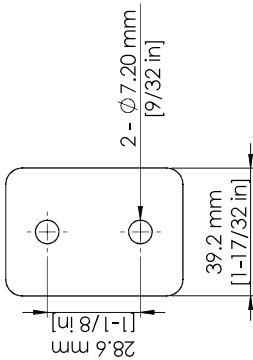
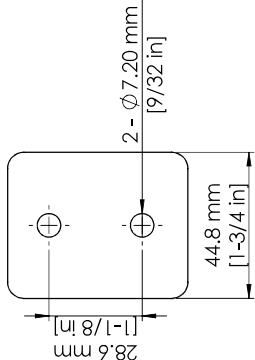
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B DWG. NO.
Report assembly P4 Stair Span-91XXXX

SCALE: 1:20
DATE REV. 2017-05-16

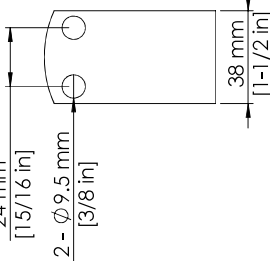
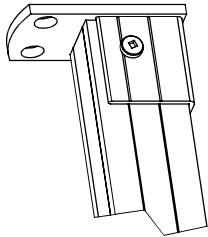
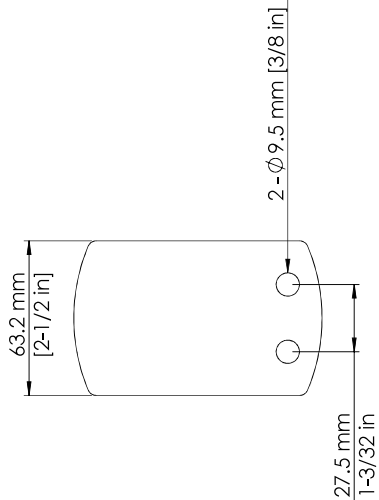


HORIZONTAL ANGLE BRACKET
SKU: 91950, 91951


MOUNTING
TEMPLATE:

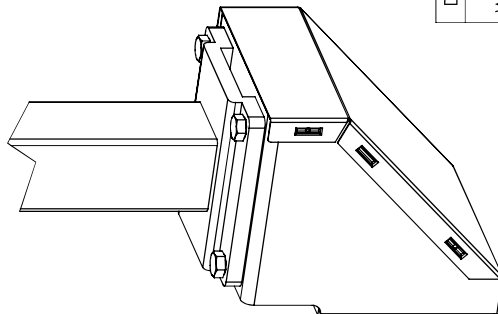
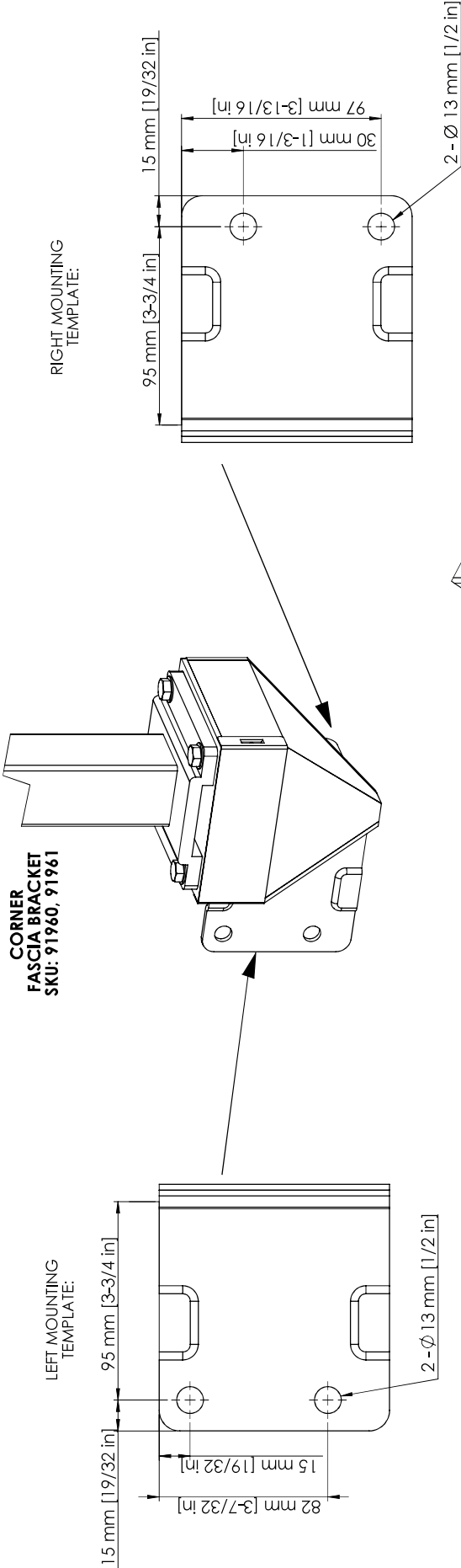


MOUNTING
TEMPLATE:

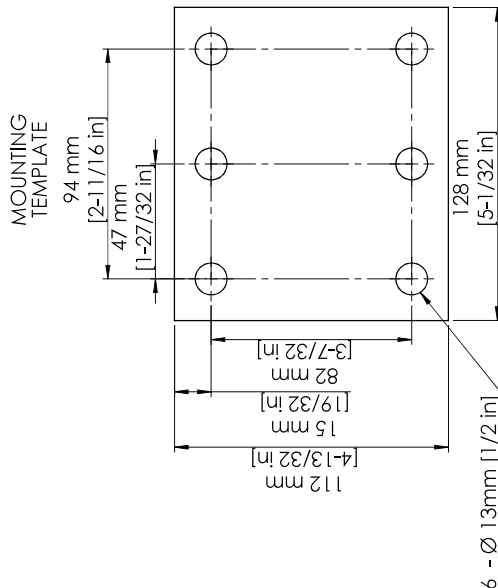


WALL MOUNT BRACKETS
SKU: 91920, 91921

	
TITLE	Peak® Railblazers® BRACKETS AND CONNECTORS
PART FILE	fig-wall-brackets
DWG REV	C
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
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SIZE	DWG. NO.
B	Report-Brackets - PKRB-CAN (6HW)
SCALE: 1:2	SHEET REV/ 2017-05-16



**MID/STAIR/END
FASCIA BRACKET
SKU: 91970, 91971**



TITLE
Peak® Railblazers®
FASCIA BRACKETS

PART FILE
fig-fascia-corner (extbase)

DWG REV
C

DIMENSIONS ARE IN MM UNLESS NOTED
DO NOT SCALE DRAWING

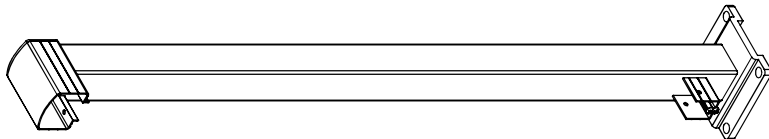
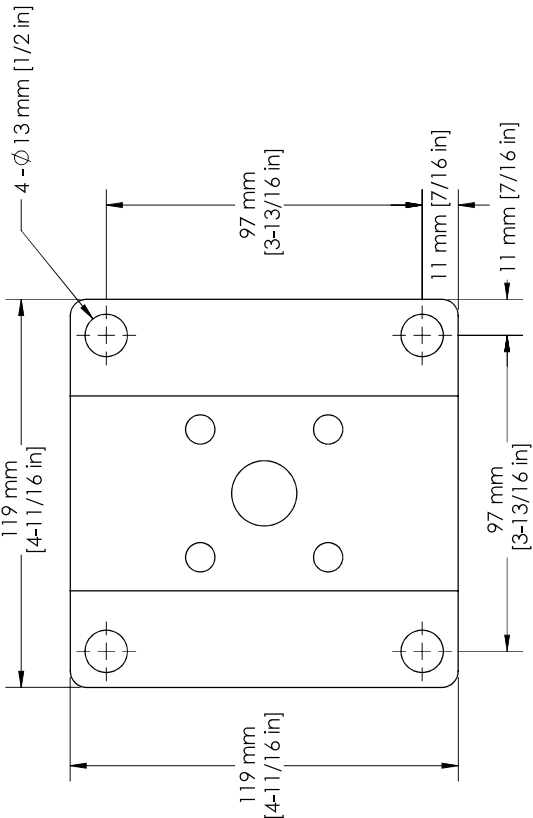
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SIZE
B
DWG. NO.
Report-Brackets - PKR8-CAN (6HW)

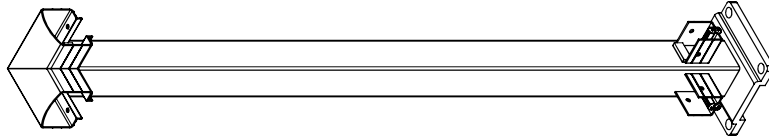
SCALE: 1:3
SHEET REV.
2017-05-16

DESCRIPTION	SKU
CORNER WHITE / BLACK	91960/91961
MID/STAIR/END WHITE/BLACK	91970/91971

MOUNTING
TEMPLATE



END POST



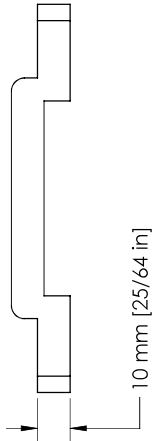
CORNER POST



MID POST



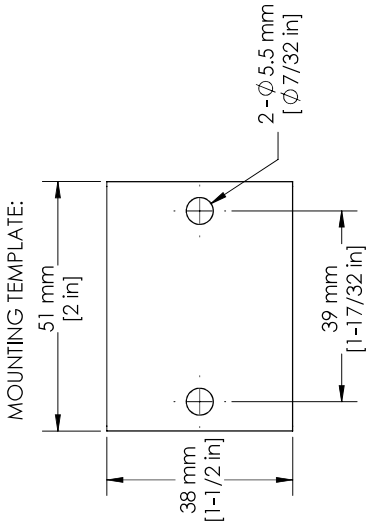
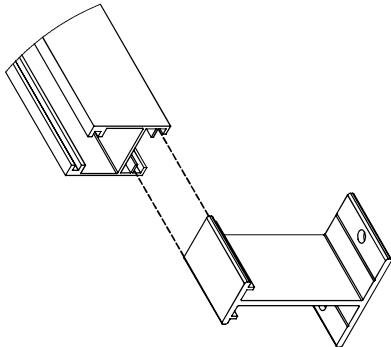
STAIR POST



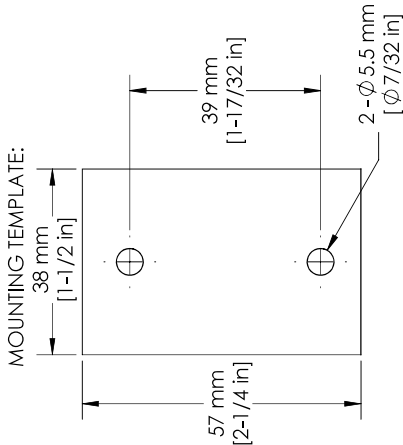
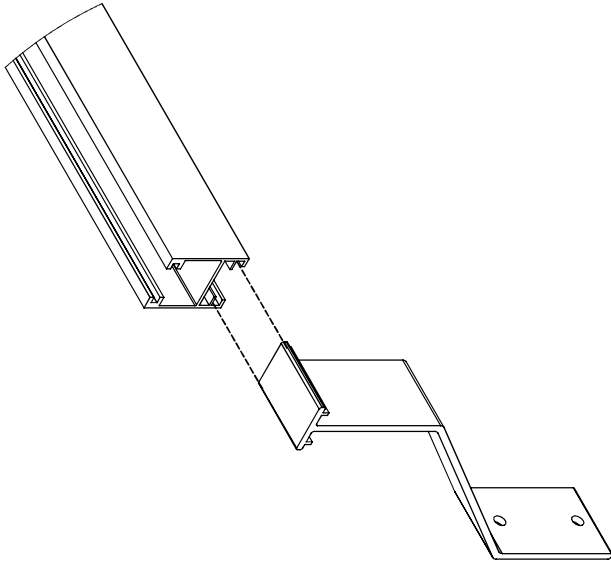
TITLE	Peak® Railbazers® Posts
PART FILE	post-Base_10mm
DWG REV	B
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
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SIZE	DWG. NO.
B	Report Posts CAN P9 - ExBase
SCALE: 1:8	SHEET REV: 2017-05-16

DESCRIPTION	SKU
END POST	91000, 91001
MID POST	91010, 91011
CORNER POST	91020, 91021
STAIR POST	91050, 91051

DECK MOUNT BASE RAIL SUPPORT



FASCIA MOUNT BASE RAIL SUPPORT



NOTE: The bottom rail support was not evaluated as a structural component necessary to resist the loads stated in Section 1.0 of this report. It does not form part of the structural system of the guard assembly.



TITLE			
Peak® Railblazers® BASE RAIL SUPPORT			
PART FILE		Report assembly - base rail support	
DWG REV		B	
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING			
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SIZE	DWG. NO.		
B	BASE RAIL SUPPORT CA-9)XXX		
SCALE: 1:1	SHEET REV.		2017/05-16