



Engineering Evaluation Certificate:

Peak® Aluminium Balustrade

**National Construction Code 2022
Volumes One and Two
Building Code of Australia**

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. This report has been prepared for certain standard residential applications. Obtain professional advice for any non-standard or non-residential application.



April 21, 2023

To: Peak Products Pty Ltd
20-22 Southern Court
Keysborough Victoria 3173
Australia

ENGINEERING EVALUATION CERTIFICATE: **Peak® Aluminium Balustrade**

To whom it may concern:

Compliance:

I certify the **Peak® Aluminium Balustrade** complies as a *Deemed-to Satisfy Solution* complying with the following Parts of the National Construction Code (NCC) 2022 Volumes One and Two Building Code of Australia (BCA):

- **Volume One,**

D3D17 – Barriers to prevent falls,

- For domestic and residential installations in Class 2, 3 and Class 4 parts of buildings for AS/NZS 1170.1:2002, Table 3.3 – Minimum Imposed Actions for Barriers, “A” & “C3” where no part of ‘Glass Panel’ or ‘Sectional Glass Panel’ (non-heat soaked) is glazed more than 5m from the finished floor or ground level; and may only protect a fall of less than 5m; and,
- For ‘Glass Panel Applications – One (1) BASE RAIL SUPPORT for each balustrade section’, installed in accordance with *Peak® Aluminium Balustrade – Installation Guide* (II01PB_InstallGuide_V7), the Design Ultimate Wind Pressure, calculated in accordance with AS/NZS 1170.2, shall not exceed ± 1.56 kPa for a maximum post spacing (W) of 1.20m (maximum *Glass Panel* width 1025mm); and,
- For *Glass Panel Applications – Two (2) BASE RAIL SUPPORT(S) FOR GLASS PANEL for each balustrade section*, installed in accordance with *Peak® Aluminium Balustrade – Installation Guide For Glass Panels With Base Rail Supports For Glass Panel* (PB_BRSGP_InstallGuide_V3), the Design Ultimate Wind Pressure, calculated in accordance with AS/NZS 1170.2, shall not exceed; ± 4.02 kPa for a maximum post spacing (W) of 1.20m (maximum *Glass Panel* width 1025mm); and, ± 2.50 kPa for a maximum post spacing (W) of 1.80m (maximum *Glass Panel* width 1625mm). For maximum rail length/*Glass Panel* width wind pressure limitations see *System Drawings* (Sheet 4 of 17); and,
- For ‘Sectional Glass Panel’ (152.4mm panel width, 100mm spacing) the Design Ultimate Wind resistance calculated in accordance with AS/NZS 1170.2 does not exceed 62 m/s, see *System Drawings* (Sheet 7 of 17); and,
- For ‘Wide Balusters’ or ‘Standard Balusters’, the Design Ultimate Wind resistance calculated in accordance with AS/NZS 1170.2 does not exceed 84 m/s, see *System Drawings* (Sheets 1&2 of 17).



D3D22 - Handrails,

For domestic and residential applications in Class 2, 3 & Class 4 parts of buildings only.

D3D23 - Fixed platforms, walkways, stairways and ladders

For domestic and residential applications in Class 2, 3 & Class 4 parts of buildings only.

For the case of 'Glass Panel' and/or 'Sectional Glass' applications no part of the glass shall be glazed more than 5m from the finished floor or ground level.

- **Volume Two & ABCB Housing Provisions,**

H5D3 & Part 11.3.1 – Barriers and Handrails

- For domestic and residential installations in Class 1 & 10 buildings for AS/NZS 1170.1:2002, Table 3.3 – Minimum Imposed Actions for Barriers, “A”; and,
- For 'Glass Panel' or 'Sectional Glass Panel' (non-heat soaked) not glazed more than 5m from the finished floor or ground level, and only protect a fall of less than 5m; and,
- For 'Glass Panel Applications – One (1) BASE RAIL SUPPORT for each balustrade section', installed in accordance with *Peak® Aluminium Balustrade – Installation Guide (I101PB_InstallGuide_V7)*, the Design Ultimate Wind Pressure, calculated in accordance with AS/NZS 1170.2, shall not exceed ± 1.56 kPa for a maximum post spacing (W) of 1.20m (maximum *Glass Panel* width 1025mm). This wind pressure, in accordance with AS/NZS 1170.2, is equivalent to AS 4055 Table 3.5(A) ultimate strength pressures for walls including Wind Classifications N1w and N2w; and,
- For *Glass Panel Applications – Two (2) BASE RAIL SUPPORT(S) FOR GLASS PANEL for each balustrade section*, installed in accordance with *Installation Guide for Glass Panels with Base Rail Supports For Glass Panel (PB_BRSGP_InstallGuide_V3)*, the Design Ultimate Wind Pressure, calculated in accordance with AS/NZS 1170.2, shall not exceed; ± 4.02 kPa for a maximum post spacing (W) of 1.20m (maximum *Glass Panel* width 1025mm); and, ± 2.50 kPa for a maximum post spacing (W) of 1.80m (maximum *Glass Panel* width 1625mm). These wind pressures in accordance with AS/NZS 1170.2, are equivalent to AS 4055 Table 3.5(A) ultimate strength pressures for walls including Wind Classifications N1w, N2w, N3w, N4w, C1w & C2w. For maximum rail length/*Glass Panel* width wind pressure limitations see *System Drawings* (Sheet 4 of 17); and,
- For 'Sectional Glass Panel' (152.4mm panel width, 100mm spacing) the Design Ultimate Wind resistance calculated in accordance with AS/NZS 1170.2 does not exceed 62 m/s. This includes AS 4055 Table 3.5(A) ultimate strength pressures for walls for Wind Classifications N1w, N2w, N3w, N4w, C1w and C2w, see *System Drawings* (Sheet 7 of 17); and,
- For 'Wide Balusters' or 'Standard Balusters', the Design Ultimate Wind resistance calculated in accordance with AS/NZS 1170.2 does not exceed 84 m/s, this includes AS 4055 Table 3.5(A) ultimate strength pressures for walls including Wind Classifications N1w, N2w, N3w, N4w, N5w, C1w, C2w and C3w, see *System Drawings* (Sheets 1&2 of 17).

Subject to the following conditions:

- i. Installation of the *Peak® Aluminium Balustrade* shall be in accordance with:



- a. *Peak® Aluminium Balustrade - Installation Guide (II01PB_InstallGuide_V7); or, Peak® Aluminium Balustrade – Installation Guide For Glass Panels With Base Rail Supports For Glass Panel (PB_BRSGP_InstallGuide_V3); and,*
- b. *Peak® Aluminium Balustrade – System Drawings (Report Drawings – PAB AUSTRALIA 20230418).*
- ii. Product selection and installation shall be made by a competent person who is conversant with the application and technical aspects of the product and has ready access to the relevant technical information related to the product installation.
- iii. Particular attention shall be paid to the structural adequacy of all connections to supporting structures designed by others. All supporting structures shall be independently verified as capable of providing the necessary structural support to the *Peak® Aluminium Balustrade*.

Limitations:

- i. This certificate specifically excludes any assessment of the suitability of *Peak® Aluminium Balustrade* and/or *Peak® Aluminium Handrail* as a swimming pool safety barrier.
- ii. This certificate does not deal with any aspect of the performance of gate components or their installation (detailed on page 14 of *Peak® Aluminium Balustrade - Installation Guide (II01PB_InstallGuide_V7)*).
- iii. This certification does not deal with materials safety, site safety or safe work practices in any form. Specification and installation should only be considered in conjunction with reference to appropriate hazards.
- iv. This certification does not deal with the quality assurance aspects of the manufacturing, transportation and installation processes.

Design documents – Specifications / Test Reports / Engineering:

Specifications:	Prepared by:	Date:
<i>Peak® Aluminium Balustrade - Installation Guide (II01PB_InstallGuide_V7)</i>	Peak Products Corporation	undated
<i>Peak® Aluminium Balustrade – Installation Guide For Glass Panels With Base Rail Supports For Glass Panel (PB_BRSGP_InstallGuide_V3)</i>	Peak Products Corporation	Undated
<i>Peak® Aluminium Balustrade – System Drawings (Report Drawings – PAB AUSTRALIA 20230418) (see Attachment 1)</i>	Peak Products Corporation	2023/04/18
Fastener Schedule (see Attachment 2)	Acronem Consulting Australia	April 2023

April 21, 2023



Test Reports:	Prepared by:	Date:
Test Report MT-19-0362, Load Testing of Aluminium Balustrade Posts	Melbourne Testing Services	2 May 2019
Report 20190951M01, Mechanical Testing Report	AlfaTest	22 May 2019
Report 20191023M01, Mechanical Testing Report	AlfaTest	15/05/2019
Test Report 2016-094-R1, Peak Aluminium Balustrade System Load Tests to AS/NZS 1170. 1 for Peak Products Corporation.	Ian Bennie Associates	7 February 2019
Test Report 22-1314-A, Load Testing of Peak Products Aluminium Balustrade - Stair Assembly	Melbourne Testing Services	20 January 2023
Test Report 22-1314-B, Load Testing of Peak Products Aluminium Balustrade – Angle Bracket Assembly	Melbourne Testing Services	16 February 2023

Engineering:	Prepared by:	Date:
REPORT No: ACA – 200305 220421, Peak® Aluminium Balustrade: NCC 2022 Volumes One & Two, Building Code of Australia – Appraisal – Barrier (domestic and residential activities)	Acronem Consulting Australia	21 April 2023

Signature:

Date:

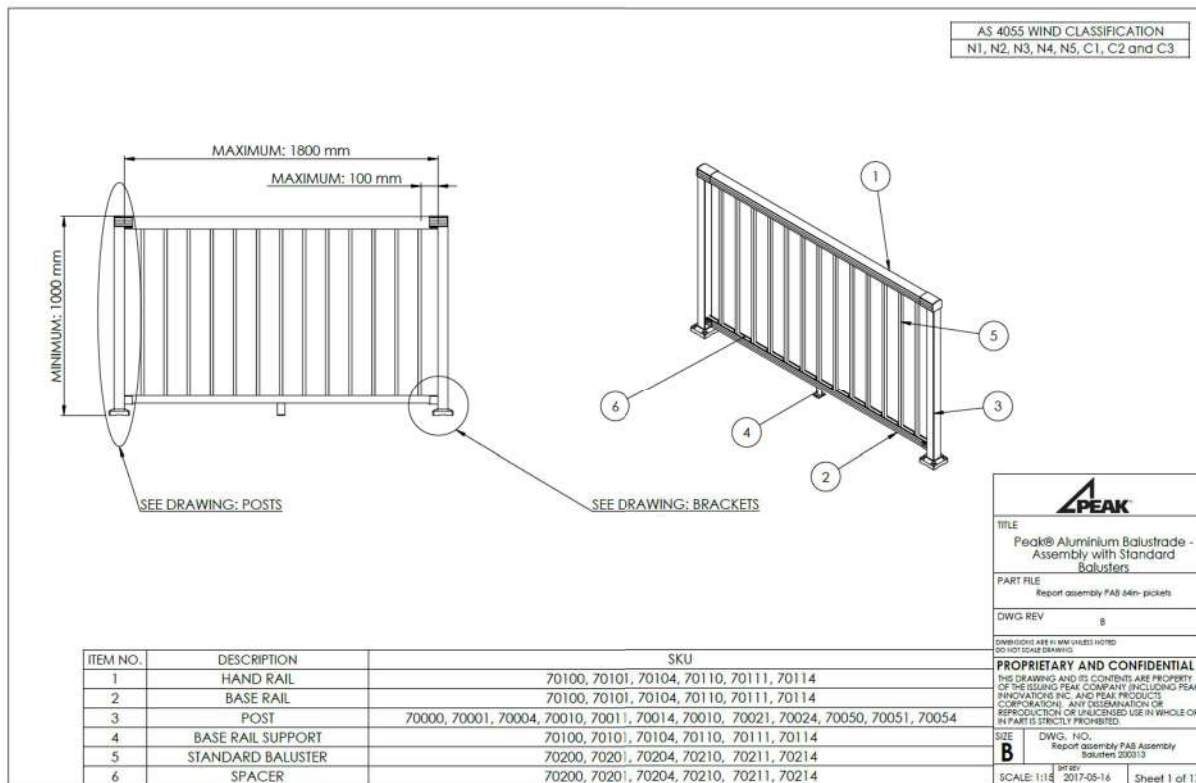
21ST APRIL 2023

CAMERON CHICK BE(HONS), PH.D, M.AIRAH, RPEQ
for and on behalf of ACRONEM CONSULTING AUSTRALIA PTY LTD
REGISTERED PROFESSIONAL ENGINEER, VIC. (CIVIL): PE0000967, QLD. (STRUCTURAL): 15370



Attachment 1: System Drawings (Report Drawings – PAB AUSTRALIA 20230418)

SKU (White)	SKU (Black)	SKU (Silver)	Description
70000	70001	70004	End Post
70010	70011	70014	Mid Post
70020	70021	70024	Corner Post
70050	70051	70054	Stair Post
70100	70101	70104	1.2m Hand and Base Rail
70110	70111	70114	1.8m Hand and Base Rail
70200	70201	70204	1.2m Standard Baluster & Spacer Kit
70210	70211	70214	1.8m Standard Baluster & Spacer Kit
70220	70221	70224	Stair Rail Kit Standard Balusters
70260	70261	70264	1.8m Standard Stair Baluster & Spacer Kit
70300	70301	70304	1.2m Wide Baluster & Spacer Kit
70310	70311	70314	1.8m Wide Baluster & Spacer Kit
70320	70321	70324	Stair Rail Kit Wide Balusters
70360	70361	70364	1.8m Wide Stair Baluster & Spacer Kit
70940	70940	70940	1.2m Glass Gasket
70941	70941	70941	1.8m Glass Gasket
70718	70714	70716	Sectional Glass Kit with Clear Glass Panels
70719	70715	70717	Sectional Glass Kit with Tinted Glass Panels
70832	70832	70832	Glass Panel 425mm x 857mm x 6mm
70835	70835	70835	Glass Panel 500mm x 857mm x 6mm
70838	70838	70838	Glass Panel 575mm x 857mm x 6mm
70841	70841	70841	Glass Panel 650mm x 857mm x 6mm
70844	70844	70844	Glass Panel 725mm x 857mm x 6mm
70847	70847	70847	Glass Panel 800mm x 857mm x 6mm
70850	70850	70850	Glass Panel 875mm x 857mm x 6mm
70853	70853	70853	Glass Panel 950mm x 857mm x 6mm
70856	70856	70856	Glass Panel 1025mm x 857mm x 6mm
70859	70859	70859	Glass Panel 1100mm x 857mm x 6mm
70862	70862	70862	Glass Panel 1175mm x 857mm x 6mm
70865	70865	70865	Glass Panel 1250mm x 857mm x 6mm
70868	70868	70868	Glass Panel 1325mm x 857mm x 6mm
70871	70871	70871	Glass Panel 1400mm x 857mm x 6mm
70874	70874	70874	Glass Panel 1475mm x 857mm x 6mm
70877	70877	70877	Glass Panel 1550mm x 857mm x 6mm
70880	70880	70880	Glass Panel 1625mm x 857mm x 6mm
70900	70901	70904	Universal Bracket
70910	70911	70914	Base Rail Supports for Glass Panel
70920	70921	70924	Wall Bracket
70930	70931	70934	Stair Bracket
70950	70951	70954	Horizontal Angle Bracket





AS 4055 WIND CLASSIFICATION
 N1, N2, N3, N4, N5, C1, C2 and C3

ITEM NO.	DESCRIPTION	SKU
1	WIDE BALUSTER	70300, 70301, 70304, 70310, 70311, 70314
2	SPACER	70300, 70301, 70304, 70310, 70311, 70314
3	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
5	POST	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70050, 70051, 70054
6	BASE RAIL SUPPORT	70100, 70101, 70104, 70110, 70111, 70114

TITLE
Peak® Aluminium Balustrade - Assembly with Wide Balusters

PART FILE
Report assembly FAB 544r- wide pickets

DWG REV
8

DRAWINGS ARE IN MM UNLESS NOTED
DO NOT SCALE DRAWING

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SIZE DWG. NO.
B Report assembly FAB Assembly Wide Balusters 200213

SCALE: 1:16 2017-05-16 Sheet 2 of 17

POST MOUNT SECTION

WALL MOUNT SECTION

TITLE
Peak® Aluminium Balustrade - Assembly with Glass Panel

PART FILE
Report assembly FAB - 1.2m span- glass panel

DWG REV
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SIZE DWG. NO.
B Report assembly FAB Assembly Glass Panel 200213

SCALE: 1:16 2017-05-16 Sheet 3 of 17

TABLE 1

Wind Pressure (kPa)	0.94	1.56
AS 4055 Wind Classification	N1w	N2w
Maximum Rail Length (mm)	1200	1200
Maximum Glass Panel Width (mm)	1025	1025

ITEM NO.	DESCRIPTION	SKU
1	BASE RAIL SUPPORT	70100, 70101, 70104
2	BASE RAIL	70100, 70101, 70104
3	GLASS PANEL	70832, 70835, 70838, 70841, 70844, 70847, 70850, 70853, 70856
4	HANDRAIL	70100, 70101, 70104
5	POSTS	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70051, 70054, 70050
6	LOWER GLASS GLASKET	70940
7	UPPER GLASS GLASKET	70940
8	WALL BRACKET	70920, 70921, 70924

TITLE
Peak® Aluminium Balustrade - Assembly with Glass Panel

PART FILE
Report assembly FAB - 1.2m span- glass panel

DWG REV
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SIZE DWG. NO.
B Report assembly FAB Assembly Glass Panel 200213

SCALE: 1:16 2017-05-16 Sheet 3 of 17

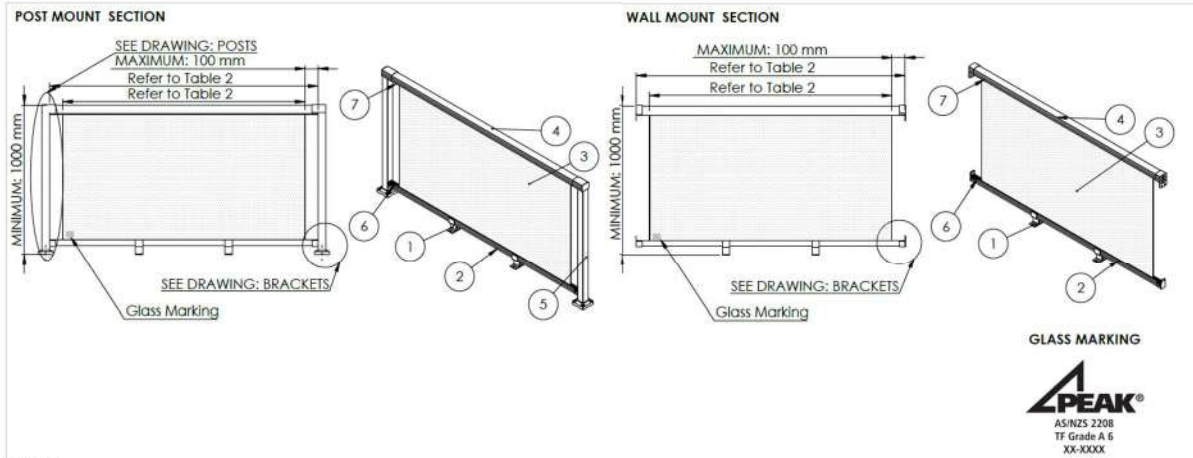


TABLE 2

Wind Pressure (kPa)	0.94	1.56	2.03	3.01	2.7	4.02
AS 4055 Wind Classification	N1w	N2w	N3w	N4w	C1w	C2w
Maximum Rail Length (mm)	1800	1800	1800	1500	1650	1250
Maximum Glass Panel Width (mm)	1625	1625	1625	1325	1475	1025

ITEM NO.	DESCRIPTION	SKU
1	BASE RAIL SUPPORT FOR GLASS PANEL	70910, 70911
2	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	GLASS PANEL	70832, 70835, 70838, 70841, 70844, 70847, 70850, 70853, 70856, 70859, 70862, 70865, 70868, 70871, 70874, 70877, 70880
4	HANDRAIL	70100, 70101, 70104, 70110, 70111, 70114
5	POSTS	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70051, 70054, 70050
6	LOWER GLASS GLASKET	70940, 70941
7	UPPER GLASS GLASKET	70940, 70941
8	WALL BRACKET	70920, 70921, 70924

GLASS MARKING

AS/NZS 2208
TF Grade A 6
XX-XXXX

Peak® Aluminium Balustrade - Assembly with Glass Panel and Base Rail Supports for Glass

PART FILE: Report assembly FAB - 1.8m span- glass panel

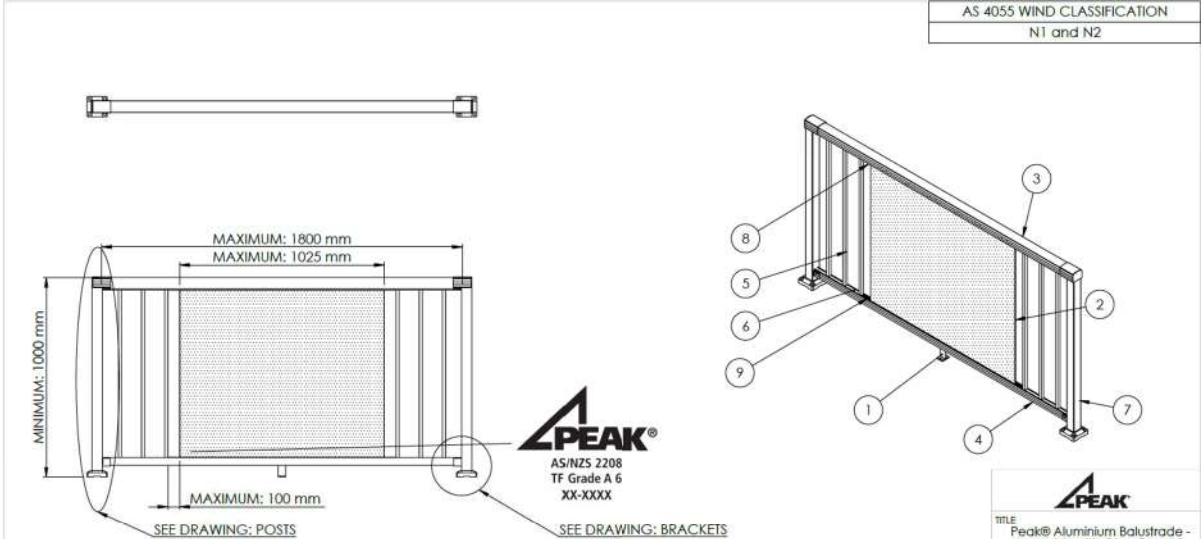
DWG REV: E

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SIZE: DWG. NO. B
Report assembly FAB Assembly Glass Panel 230323
REV: 01
SCALE: 1:15 2017-05-16 Sheet 4 of 17

AS 4055 WIND CLASSIFICATION
N1 and N2



ITEM NO.	DESCRIPTION	SKU
1	BASE RAIL SUPPORT	70100, 70101, 70104, 70110, 70111, 70114
2	GLASS PANEL	70832, 70835, 70838, 70841, 70844, 70847, 70850, 70853, 70856
3	HANDRAIL	70100, 70101, 70104, 70110, 70111, 70114
4	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
5	STANDARD BALUSTER	70200, 70201, 70204, 70210, 70211, 70214
6	SPACER	70200, 70201, 70204, 70210, 70211, 70214
7	POSTS	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70051, 70054, 70050
8	UPPER GLASS GASKET	70940
9	LOWER GLASS GASKET	70940

Peak® Aluminium Balustrade - Assembly with Glass Panel & Standard Balusters

PART FILE: Report assembly FAB - 1.8m span- glass panel with balusters

DWG REV: C

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SIZE: DWG. NO. B
Report assembly FAB Assembly Glass Panel with balusters 20200323
REV: 01
SCALE: 1:15 2017-05-16 Sheet 5 of 17



AS 4055 WIND CLASSIFICATION
 N1 and N2

AS/NZS 2208
TF Grade A 6
XX-XXXX

ITEM NO.	DESCRIPTION	SKU
1	BASE RAIL SUPPORT	70100, 70101, 70104, 70110, 70111, 70114
2	GLASS PANEL	70832, 70835, 70838, 70841, 70844, 70847, 70850, 70853, 70856
3	HANDRAIL	70100, 70101, 70104, 70110, 70111, 70114
4	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
5	SPACER	70300, 70301, 70304, 70310, 70311, 70314
6	WIDE BALUSTER	70300, 70301, 70304, 70310, 70311, 70314
7	POST	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70051, 70054, 70050
8	UPPER GLASS GASKET	70940
9	LOWER GLASS GASKET	70940

PEAK

TITLE
Peak® Aluminium Balustrade - Assembly with Glass Panel & Wide Balusters

PART FILE
Report assembly FAB - 1.8m (span- glass panel with wide balusters.

DWG REV C

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SIZE DWG. NO.
B Report assembly FAB Assembly Glass Panel with wide balusters, 20230323 04 REV

SCALE: 1:15 2017-05-16 Sheet 6 of 17

AS 4055 WIND CLASSIFICATION
 N1, N2, N3, N4, C1 and C2

AS/NZS 2208
TF Grade A 8
XX-XXXX

ITEM NO.	DESCRIPTION	SKU
1	POSTS	70000, 70001, 70004, 70010, 70011, 70014, 70020, 70021, 70024, 70050, 70051, 70054
2	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	SECTIONAL GLASS KIT	70714, 70715, 70716, 70717, 70718, 70719
5	SPACER	70714, 70715, 70716, 70717, 70718, 70719
6	BASE RAIL SUPPORT	70100, 70101, 70104, 70110, 70111, 70114

PEAK

TITLE
Peak® Aluminium Balustrade - Assembly with Sectional Glass

PART FILE
Report assembly FAB glass pickets

DWG REV C

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SIZE DWG. NO.
B Report assembly FAB Assembly Sectional Glass 230415 04 REV

SCALE: 1:15 2017-05-16 Sheet 7 of 17

April 21, 2023



GLASS PANEL
SCALE 1:2

ITEM NO.	DESCRIPTION	SKU
1	Glass Panel Holder	
2	Glass Panel Gasket	70714, 70715, 70716, 70717, 70718, 70719
3	Glass Panel	

TITLE
Peak® Aluminium Balustrade - Sectional Glass Components

PART FILE
FAB-glass-picket

DWG REV
C

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SIZE DWG. NO. Report - Sectional Glass FAB 220418

B DWG. NO. Report - Sectional Glass FAB 220418

SCALE: 1:2 2017-05-16 Sheet 8 of 17

SEE DRAWING: POSTS

MAXIMUM: 1800 mm

MAXIMUM: 100 mm

MINIMUM: 865 mm

125 mm SPHERE MUST NOT PASS THROUGH THE RAIL AND THE NOSING LINE OF THE STAIR TREADS

SEE DRAWING: BRACKETS

AS 4055 WIND CLASSIFICATION
N1, N2, N3, N4, N5, C1, C2 and C3

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	UNIVERSAL BRACKET	70900, 70901, 70904
5	STANDARD STAIR BALUSTER	70260, 70261, 70264
6	STAIR SPACER	70260, 70261, 70264

TITLE
Peak® Aluminium Balustrade - Stair Assembly with Balusters

PART FILE
Report assembly - stair - pickets FAB

DWG REV
B

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DO NOT SCALE DRAWING

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SIZE DWG. NO. Report assembly FAB Stair Balusters AUS 200813

B DWG. NO. Report assembly FAB Stair Balusters AUS 200813

SCALE: 1:14 2017-05-16 Sheet 9 of 17

April 21, 2023



AS 4055 WIND CLASSIFICATION
N1, N2, N3, N4, N5, C1, C2 and C3

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	UNIVERSAL BRACKET	70900, 70901, 70904
5	WIDE STAIR BALUSTER	70360, 70361, 70364
6	STAIR SPACER	70360, 70361, 70364

TITLE
Peak® Aluminium Balustrade - Stair Assembly with Wide Balusters
PART FILE
Report assembly - stair - wide pickets PAB
DWG REV
8
DIMENSIONS ARE IN MM UNLESS NOTED
DO NOT SCALE DRAWING
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SIZE DWG. NO.
B Report assembly PAB Stair Wide Balusters AUG 2003/13
SCALE: 1:16 2017-05-16 Sheet 10 of 17

AS 4055 WIND CLASSIFICATION
N1, N2, N3, N4, N5, C1, C2 and C3

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	UNIVERSAL BRACKET	70900, 70901, 70904
5	STANDARD STAIR BALUSTER	70260, 70261, 70264
6	STAIR SPACER	70260, 70261, 70264

TITLE
Peak® Aluminium Balustrade - Stair with Balusters on ramp
PART FILE
Report assembly - stair - pickets PAB ramp
DWG REV
A
DIMENSIONS ARE IN MM UNLESS NOTED
DO NOT SCALE DRAWING
PROPRIETARY AND CONFIDENTIAL
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SIZE DWG. NO.
B Report assembly PAB Stair Ramp
SCALE: 1:16 2017-05-16 Sheet 11 of 17



AS 4055 WIND CLASSIFICATION
N1, N2, N3, N4, N5, C1, C2 and C3

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70100, 70101, 70104, 70110, 70111, 70114
3	BASE RAIL	70100, 70101, 70104, 70110, 70111, 70114
4	UNIVERSAL BRACKET	70900, 70901, 70904
5	WIDE STAIR BALUSTER	70360, 70361, 70364
6	STAIR SPACER	70360, 70361, 70364

PEAK

TITLE: Peak® Aluminium Balustrade - Stair with Wide Balusters on ramp

PART FILE: Report assembly - stair - wide pickets FAB ramp

DWG REV: A

DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING

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SIZE: DWG. NO. B Report assembly FAB Stair Ramp

SCALE: 1:16 2017-05-16 Sheet 12 of 17

AS 4055 WIND CLASSIFICATION
N1, N2, N3, N4, N5, C1, C2 and C3

UPPER BRACKET MOUNTING TEMPLATE

LOWER BRACKET MOUNTING TEMPLATE

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70220, 70221, 70224
3	BASE RAIL	70220, 70221, 70224
4	STAIR BRACKETS	70220, 70221, 70224, 70930, 70931, 70934
5	STANDARD STAIR BALUSTER	70220, 70221, 70224

PEAK

TITLE: Peak® Aluminium Balustrade - Stair Railing with Standard Balusters

PART FILE: FAB Stair

DWG REV: A

DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING

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SIZE: DWG. NO. B Report assembly FAB Stair Rail and Balusters

SCALE: 1:16 2017-05-16 Sheet 13 of 17



AS 4055 WIND CLASSIFICATION
 N1, N2, N3, N4, N5, C1, C2 and C3

UPPER BRACKET MOUNTING TEMPLATE

LOWER BRACKET MOUNTING TEMPLATE

ITEM NO.	DESCRIPTION	SKU
1	POST	70000, 70001, 70004, 70050, 70051, 70054
2	HAND RAIL	70320, 70321, 70324
3	BASE RAIL	70320, 70321, 70324
4	STAIR BRACKETS	70320, 70321, 70324, 70930, 70931, 70934
5	WIDE STAIR BALUSTER	70320, 70321, 70324

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SIZE **B** DWG. NO. Report assembly FAB Stair Rail and Wide Balusters
 SHEET 14 OF 17
 SCALE: 1:16 2017-05-16

MOUNTING TEMPLATE:

MOUNTING TEMPLATE:

MOUNTING TEMPLATE:

MOUNTING TEMPLATE:

HORIZONTAL ANGLE BRACKET
 SKU: 70950, 70951, 70954

WALL MOUNT BRACKETS
 SKU: 70920, 70921, 70924

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SIZE **B** DWG. NO. Report brackets FAB 230023
 SHEET 15 OF 17
 SCALE: 1:2 2017-05-16



UNIVERSAL BRACKET - STAIR APPLICATION

UNIVERSAL BRACKET - HORIZONTAL ANGLE APPLICATION

DESCRIPTION	SKU
Universal Bracket	70900, 70901, 70904

PEAK	
TITLE Peak® Aluminium Balustrade BRACKETS AND CONNECTORS	
PART FILE fig-bracket-stair PAB	
DWG REV B	
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
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SIZE B	DWG. NO. Report-brackets PAB 230023
SCALE: 1:3	DATE: 2017-05-16 Sheet 16 of 17

END POST

MID POST

CORNER POST

STAIR POST

MOUNTING TEMPLATE

78

102

21.50

4 mounting holes: $\phi 11.25$ or $\phi 13$

DESCRIPTION	SKU
End Post	70000, 70001, 70004
Mid Post	70010, 70011, 70014
Corner Post	70020, 70021, 70024
Stair Post	70050, 70051, 70054

PEAK	
TITLE Peak® Aluminium Balustrade - POSTS	
PART FILE fig-post-corner PAB	
DWG REV B	
DIMENSIONS ARE IN MM UNLESS NOTED DO NOT SCALE DRAWING	
PROPRIETARY AND CONFIDENTIAL THIS DRAWING AND ITS CONTENTS ARE PROPERTY OF THE ISSUING PEAK COMPANY (INCLUDING PEAK INNOVATIONS INC. AND PEAK PRODUCTS CORPORATION). ANY DISTRIBUTION OR REPRODUCTION OR UNLICENSED USE IN WHOLE OR IN PART IS STRICTLY PROHIBITED.	
SIZE B	DWG. NO. Report-posts PAB 200013
SCALE: 1:6	DATE: 2017-05-16 Sheet 17 of 17



Attachment 2: Fastener Schedule

The following summary information is provided on the fasteners used in conjunction with the Peak[®] Aluminium Balustrade. More detailed information regarding additional fastener requirements may be found in REPORT No: ACA – 200305 230421.

In all cases, the attachment of fasteners to a suitable concrete or timber supporting structure designed by others, must be independently verified for each installation.

Peak[®] Aluminium Balustrade

- **Post Base to Concrete:**

o Mechanical Anchoring:

- 4 x Ramset[™] WERCS Ankascrew[™] Anchor, M10x100 mm (AS10100WGM50), or
4 x Ramset[™] Ankascrew[™] Anchor, M10x100 mm (AS10100GM), installed in accordance with Ramset[™] Technical Data Sheet.
- Minimum Concrete Strength 25 MPa,
- Minimum Edge Distance 70 mm,
- Minimum concrete embedment depth 72 mm.

o Chemical Anchoring:

- Design conditions in accordance with Ramset Design Calculator include:
 - Non-Cracked Concrete
 - Ramset “EPCON C8 Xtrem” Part No: C8450
 - Anchor Size: M10
 - Anchor Stud – Gr 5.8 or G316
Part No: CS10130, CS10130GH or CS10130SS
 - Minimum Edge Distance: 30mm
 - Min. Concrete Strength: 25MPa
 - Min. Hole Diameter / Depth: 12mm / 72mm
 - Min. Concrete thickness: 96mm

- **Post Base to Timber**

- o 4 x Coach Screw, M10 x (length) mm, Class 4.6 or Class 4.8 in accordance with AS/NZ 4291.1 and a hardness of 120-250 HV (67 HRB-22HRC) with:
 - Minimum embedment depth of the threaded portion of the coach screw into the side grain of the supporting structure is not less than,
 - 100 mm for JD3 (e.g. Seasoned, Mixed Australian Hardwoods),
 - 125 mm for J3 (e.g. Unseasoned, Mixed Australian Hardwoods),
 - 145 mm for JD4 (e.g. Seasoned, Mixed Softwood Species), or
 - 185 mm for J4 (e.g. Unseasoned, Pine, Radiata, Australia).
 - Minimum end distance (5D) 50 mm, see AS 1720.1 for definitions.
 - Minimum edge distance (4D) 40 mm, see AS 1720.1 for definitions.
 - The diameter of the hole for the shank shall be not less than the shank diameter of the screw nor exceed it by more than 1 mm or 10% of the shank diameter, whichever is lesser.



- The diameter of the hole for the threaded portion of the screw shall not exceed the root diameter of the screw.
- The depth of the hole shall exceed the intended depth to which the screw is to be driven.

- Wall Bracket to Concrete

- o 2 x Ramset™ WERCS Ankascrew™ Anchor, M6x50 mm (AS06050WGM100), or
2 x Ramset™ Ankascrew™ Anchor, M6x50 mm (AS06050GM),
to be installed in accordance with Ramset™ Technical Data Sheet.
- o Minimum Concrete Strength 25 MPa,
- o Minimum Edge Distance 50 mm,
- o Minimum concrete embedment depth 39 mm.

- Wall Bracket to Timber

- **Option 1:** 2 x Coach Screw, M6 x (length) mm, Class 4.6 or Class 4.8 in accordance with AS/NZ 4291.1 and a hardness of 120-250 HV (67 HRB-22HRC) with:
 - o Minimum embedment depth of the threaded portion of the coach screw into the side grain of the supporting structure is not less than,
 - o 45 mm for JD3 (e.g. Seasoned, Mixed Australian Hardwoods),
 - o 50 mm for J3 (e.g. Unseasoned, Mixed Australian Hardwoods),
 - o 50 mm for JD4 (e.g. Seasoned, Mixed Softwood Species), or
 - o 60 mm for J4 (e.g. Unseasoned, Pine, Radiata, Australia).
 - o Minimum end distance (8D) 48 mm, see AS 1720.1 for definitions.
 - o Minimum edge distance (4D) 24 mm, see AS 1720.1 for definitions.
 - o The diameter of the hole for the shank shall be not less than the shank diameter of the screw nor exceed it by more than 1 mm or 10% of the shank diameter, whichever is lesser.
 - o The diameter of the hole for the threaded portion of the screw shall not exceed the root diameter of the screw.
 - o The depth of the hole shall exceed the intended depth to which the screw is to be driven.
- **Option 2:** 2 x Type 17 14g (6.3 mm) screws with ST6.3 thread in accordance with AS 3566 with:
 - o Minimum embedment depth into the side-grain of the supporting structure,
 - o 45 mm for JD3 (e.g. Seasoned, Mixed Australian Hardwoods),
 - o 50 mm for J3 (e.g. Unseasoned, Mixed Australian Hardwoods),
 - o 50 mm for JD4 (e.g. Seasoned, Mixed Softwood Species), or
 - o 60 mm for J4 (e.g. Unseasoned, Pine, Radiata, Australia).
 - o Minimum end distance (10D) 63 mm, see AS 1720.1 for definitions.



- Minimum edge distance (5D) 31.5 mm, see AS 1720.1 for definitions.
- The diameter of the hole for the threaded portion of the screw shall not exceed the root diameter of the screw.
- The wall bracket shall be aligned such that a line drawn between the screws is aligned across the grain.
- ***'Base Rail Support' & 'Base Rail Support for Glass Panel' Brackets to Concrete***
 - 2 x Ramset™ WERCS Ankascrew™ Anchor, M5x30 mm (AS05030), to be installed in accordance with Ramset™ Technical Data Sheet.
 - Minimum Concrete Strength 25 MPa,
 - Minimum Edge Distance 40 mm,
 - Minimum concrete embedment depth 27 mm.
- ***'Base Rail Support' & 'Base Rail Support for Glass Panel' Brackets to Timber***
 - 2 x Type 17 10g timber screws (4.88 mm) in accordance with AS 3566 with:
 - Minimum embedment depth into side-grain of the supporting structure (7D) 34 mm, for J1 to J4 and JD1 to JD4 (e.g. Unseasoned or Seasoned, Mixed Australian Hardwoods or Mixed Softwood Species or Pine, Radiata, Australia).
 - Minimum end distance (10D) 49 mm, see AS 1720.1 for definitions.
 - Minimum edge distance (5D) 25 mm, see AS 1720.1 for definitions.
 - The diameter of the hole for the threaded portion of the screw shall not exceed the root diameter of the screw.
 - The base rail support bracket shall be aligned such that a line drawn between the screws is aligned across the grain.