

NOTES :

DESIGN CRITERIA

- REGION C
- TERRAIN CATEGORY 2
- DOOR HEIGHT 5.1m MAX.
- BUILDING IMPORTANCE = LEVEL 2
- REGION WINDSPEED VR = 66m/s
- SERIES 2 AND SERIES 3 DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE RATING AS GIVEN IN FIGURES A1, B1, C1 OR D1 AS APPROPRIATE FOR THE RELEVANT SPAN CONSIDERED.
- FOR THE ABOVE DESIGN CRITERIA PROVIDE CLIPS AT EVERY FLAT AS SHOWN ON PART PLAN OF CURTAIN MATERIAL AND WIND-LOCK CLIPS.
- CURTAIN HEIGHT = OPENING HEIGHT.
- OPENING WIDTH = CURTAIN WIDTH - CURTAIN OVERLAPS (REFER TO SECTION 4 ON DRAWINGS S02, S03 AND S04).
- CLIPS AT EVERY SECOND FLAT ARE TO BE ADOPTED ONLY FOR USE IN WIND REGIONS A & B BASED ON A MAXIMUM ALLOWABLE SPAN AND INTERNAL PRESSURE COEFFICIENTS AS NOMINATED ON DRAWING S05.

LIMITATIONS


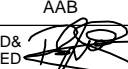
- (STEEL ABUTMENT POSTS TO BE 3mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 U.N.O.
- CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF BLOCK WALL UNIT (f'_{uc}) = 15 MPa (MIN.)
- CORE FILLING OF BLOCKWALL (f'_c) = 15 MPa (MIN.).
- THE STRUCTURE TO WHICH THE DOOR IS ATTACHED SHALL BE ASSESSED AND CERTIFIED INDEPENDENTLY AS REQUIRED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.
- ALTERNATIVE DESIGN PARAMETERS TO WHAT ARE SPECIFIED ON THESE DRAWINGS ALONG WITH ALTERNATIVE SITE SPECIFIC LOCAL PRESSURE FACTORS MAY BE ADOPTED PROVIDED THE CALCULATED SITE SPECIFIC ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN FIGURES A1, B1, C1 OR D1 AS APPROPRIATE.
- THE BUILDING DESIGN STRUCTURAL ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN FIGURES A1, B1, C1 OR D1 AS APPROPRIATE.
- DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (ie. CORNERS OF BUILDINGS), PROVIDED THE CALCULATED SITE SPECIFIC ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN FIGURES A1, B1, C1 OR D1 AS APPROPRIATE.
- PROVIDE CLIPS AT EVERY FLAT OR EVERY SECOND FLAT AS REQUIRED (REFER TO FIGURES A1, B1, C1 OR D1 AND TABLES 1a OR 1b AS APPROPRIATE).

BASIS OF DRAWINGS

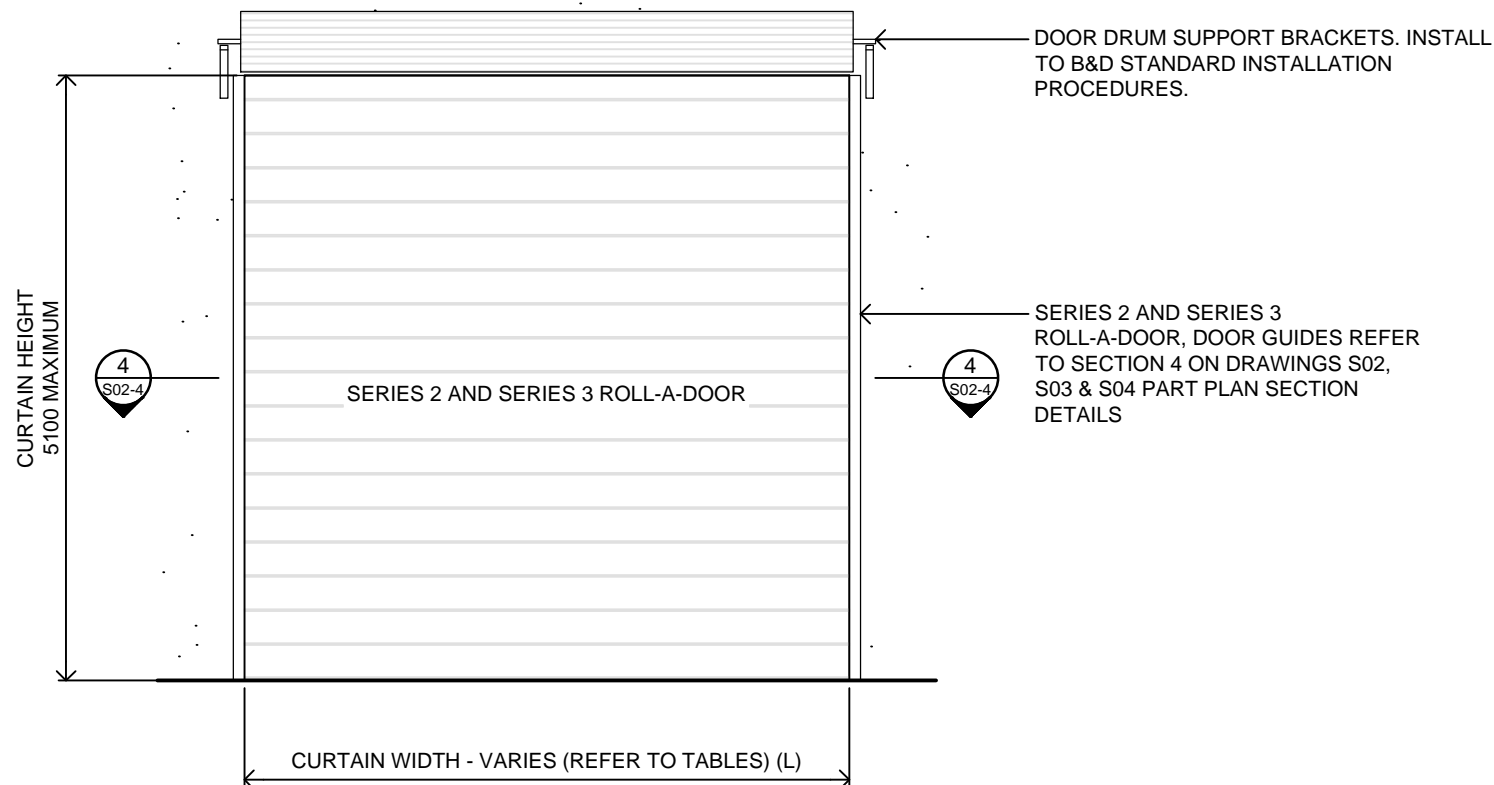
- TEST REPORT NO.'s TS1067 REVISION A AND ADDENDUM TO REPORT NO.TS1067 REVISION A (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- IN-HOUSE TESTING CONDUCTED ON THE 19th JULY, 2017.
- PRINCIPLES OF MECHANICS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS - PART 2: WIND ACTIONS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0: GENERAL PRINCIPLES.
- AS/NZS 4505:2012 GARAGE DOORS AND OTHER LARGE ACCESS DOORS.
- AS 4100:2020 STEEL STRUCTURES.
- AS 3700:2018 MASONRY STRUCTURES.
- AS 3600-2018 CONCRETE STRUCTURES.
- AS/NZS 4600:2018 COLD FORMED STEEL STRUCTURES.
- AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1 - LIMIT STATE DESIGN.
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 1720.1:2010 TIMBER STRUCTURES, PART 1 - DESIGN METHODS.
- AS 4055: 2021 WIND LOADS FOR HOUSING.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR INSTALLATION GUIDELINES.

ISSUE	DATE	AMENDMENTS
M	14.08.17	SERIES 2 PROFILE AMENDED AND SERIES 3 PROFILE ADDED
N	19.10.17	GENERAL REVISION
P	15.10.21	GENERAL REVISION
Q	02.05.23	GENERAL REVISION

CLIENT	B&D AUSTRALIA PTY LTD
PROJECT	B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

 <p>JAMES ELLIS & ASSOCIATES PTY LTD Consulting Structural Engineers</p> <p>www.jamesellisengineers.com.au PO Box 251, Padstow NSW 2211 Ph: 8764 1035</p>	DRAWING NOTES	SCALE
		DESIGNED J.E.
		DRAWN AAB
		CHECKED & APPROVED 
		DATE May 2023

DRAWING No.	S00 q
PROJECT No.	2289

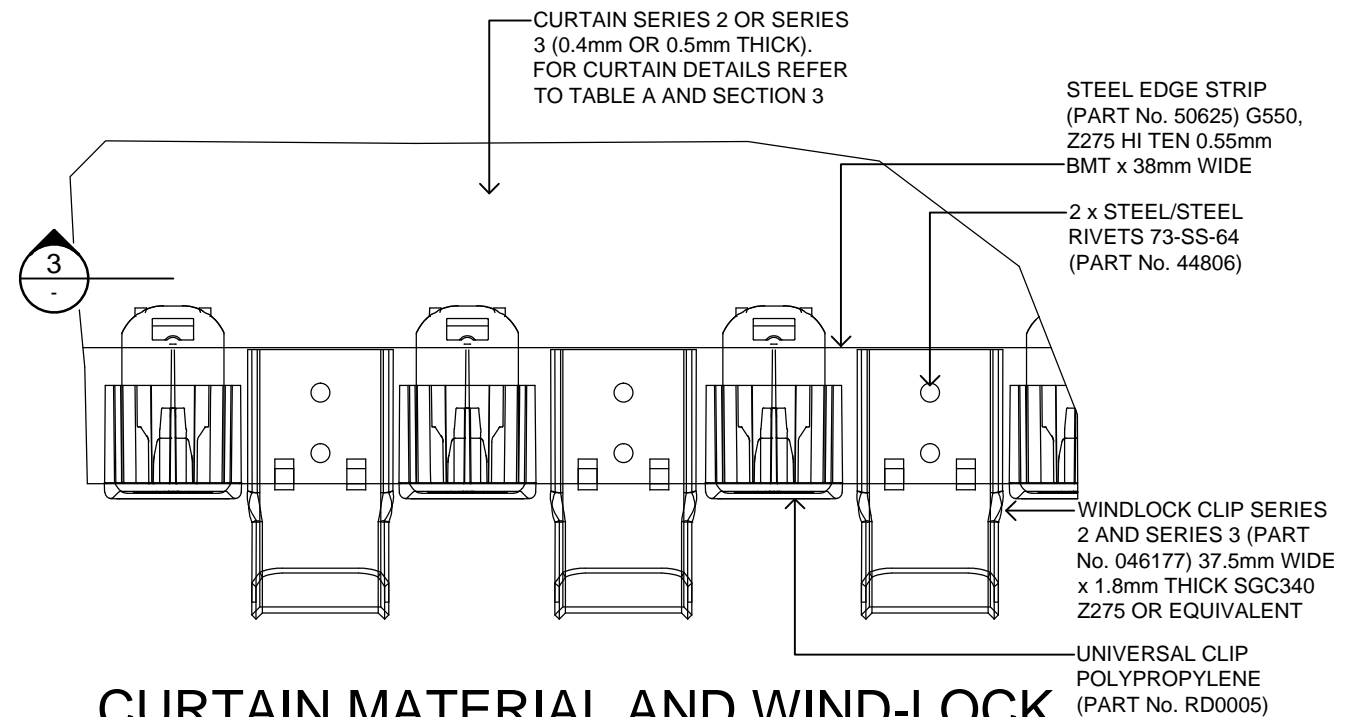


SERIES 2 AND SERIES 3 ROLL-A-DOOR ELEVATION - TYPICAL

SCALE 1:50. CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS (REFER TO DRAWINGS S02, S03 & S04 FOR DETAILS)

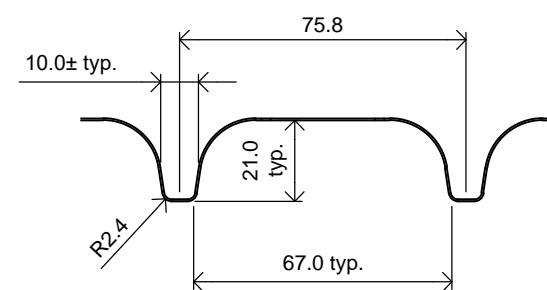
TABLE A

CURTAIN MODEL & PRODUCT NAME	CURTAIN MATERIAL TYPE AND GRADE	CURTAIN PROFILE	CURTAIN MATERIAL THICKNESS
R2L - SERIES 2 TRADITIONAL LOW PROFILE	COLORBOND ZALG300S2	S2	0.4mm
R2F - SERIES 2 FIRMADOOR LIGHT INDUSTRIAL	COLORBOND ZALG300S2	S2	0.4mm
R2I - SERIES 2 TRADITIONAL INDUSTRIAL	COLORBOND ZALG300S2	S2	0.5mm
R2W - SERIES 2 TRADITIONAL WIDELINE	COLORBOND ZALG300S2	S2	0.5mm
R3F - SERIES 3 MAXI	COLORBOND ZALG300S2	S3	0.4mm
R3I - SERIES 3 SQUARELINE INDUSTRIAL	COLORBOND ZALG300S2	S3	0.5mm
R3W - SERIES 3 SQUARELINE WIDELINE	COLORBOND ZALG300S2	S3	0.5mm



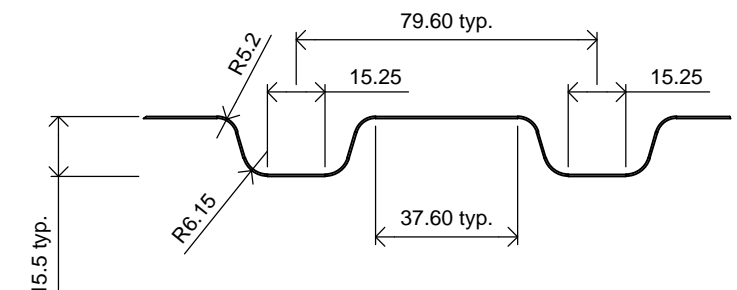
CURTAIN MATERIAL AND WIND-LOCK CLIPS - PART ELEVATION

AS VIEWED FROM BACK FACE
SCALE 1:2



SECTION 3

SCALE = 1:2
SERIES 2 PROFILE (REFER ALSO TO TABLE A)



SECTION 3

SCALE = 1:2
SERIES 3 PROFILE (REFER ALSO TO TABLE A)

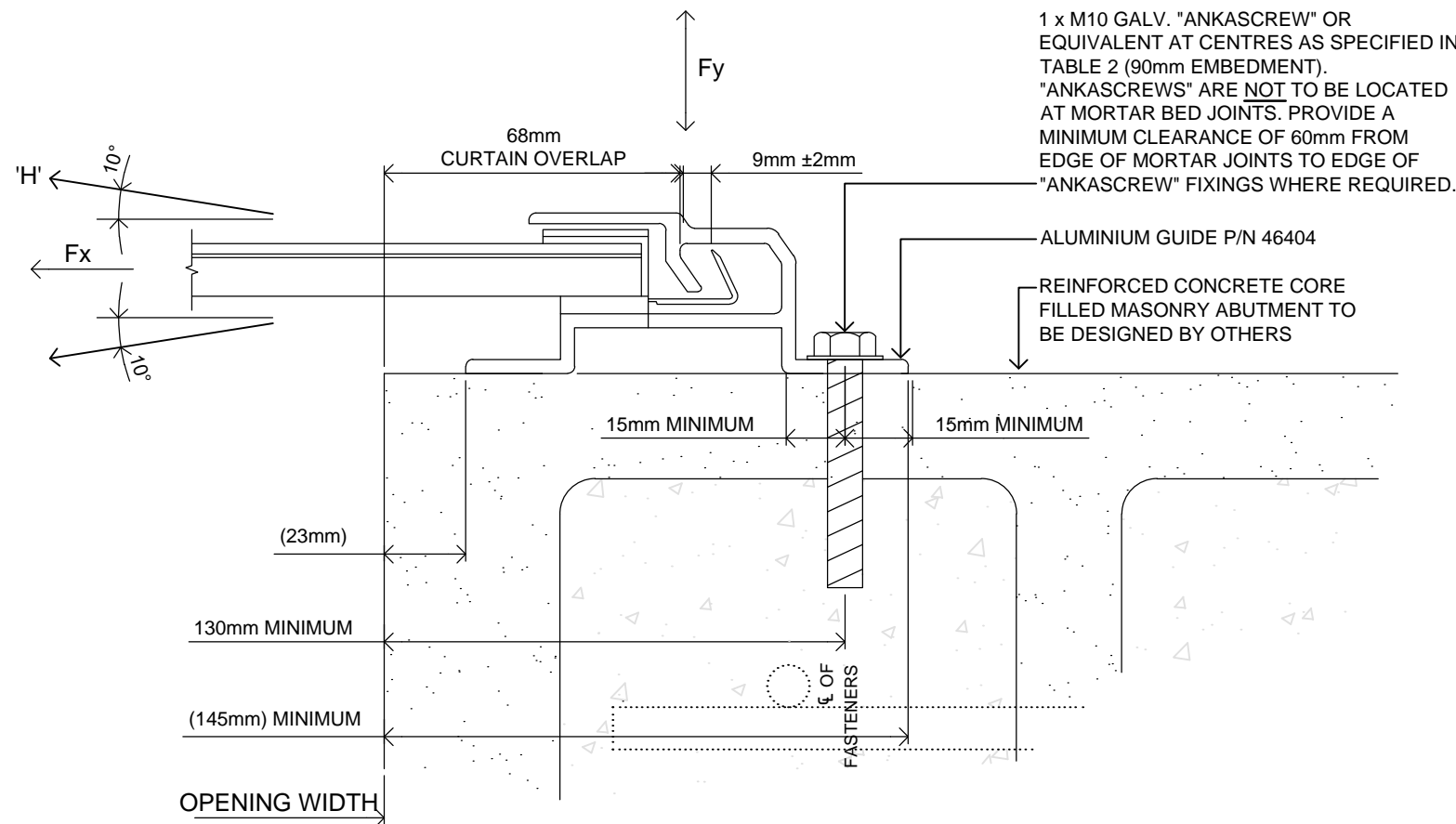
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P	15.10.21	GENERAL REVISION
Q	02.05.23	GENERAL REVISION

CLIENT B&D AUSTRALIA PTY LTD
PROJECT B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

DRAWING SERIES 2 AND SERIES 3 ROLL-A-DOOR, ELEVATION PART PLAN AND SECTION	SCALE
JAMES ELLIS & ASSOCIATES PTY LTD Consulting Structural Engineers	DESIGNED J.E.
	DRAWN AAB
	CHECKED & APPROVED
	DATE May 2023

DRAWING No. S01 q
PROJECT No. 2289

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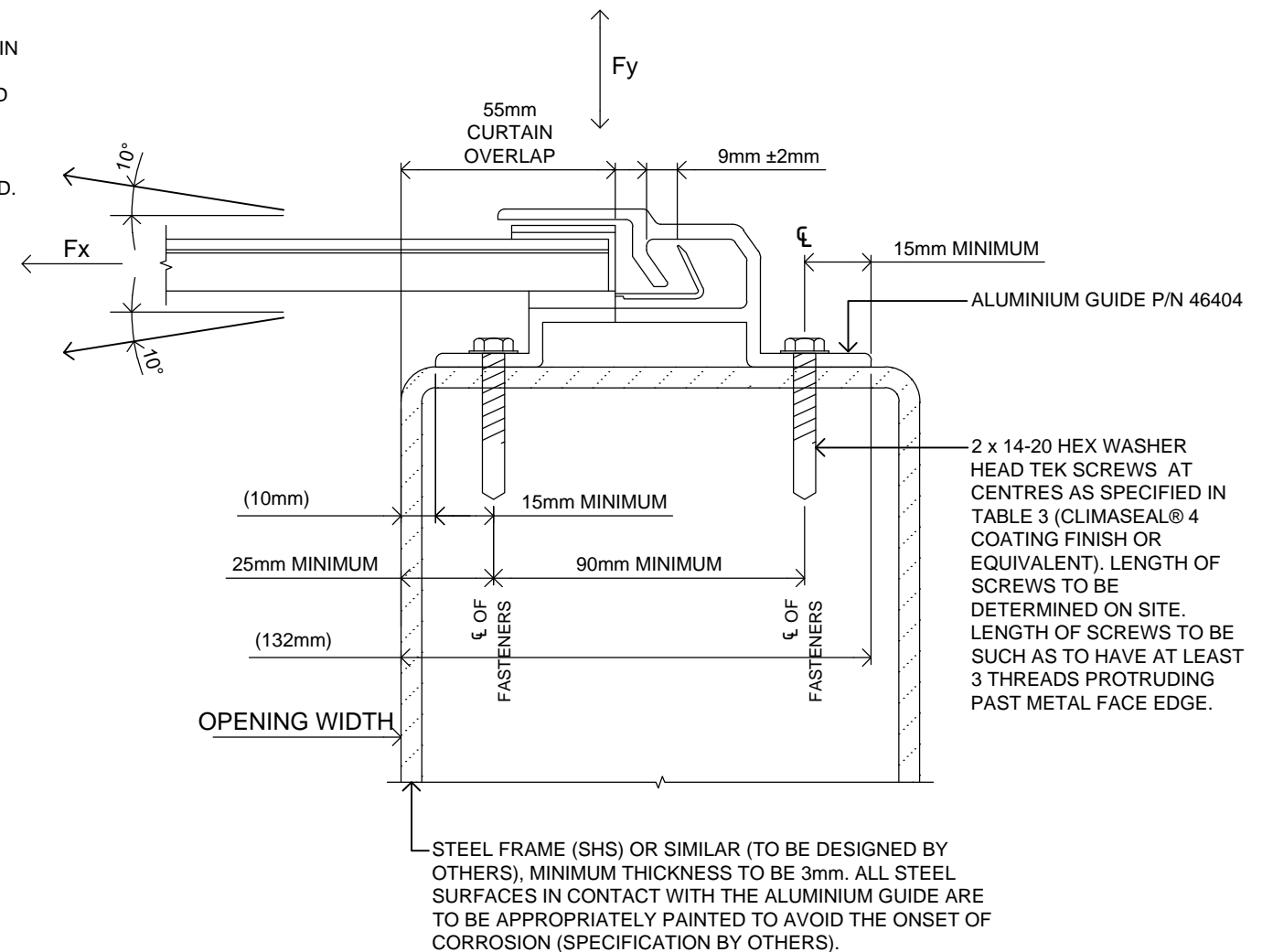
SECTION 4 PART PLAN
SCALE = 1:2

GUIDE SUPPORTED BY REINFORCED CONCRETE CORE FILLED MASONRY ABUTMENTS (REFER TO TABLE 2 FOR FASTENING DETAILS). SIMILAR FOR GUIDES SUPPORTED BY REINFORCED CONCRETE WALL PANELS.

THE ALUMINIUM GUIDE CAN ALSO BE SECURED USING 2 x M10 GALV. "ANKASCREWS" THROUGH BOTH LEGS OF THE GUIDE. PROVIDE A 40mm MINIMUM EDGE DISTANCE OF THE GUIDE FROM THE EDGE OF THE ABUTMENT IN LIEU OF 23mm AS ILLUSTRATED ABOVE IF BOTH LEGS OF THE GUIDE ARE SECURED. PROVIDE FASTENINGS AT CENTRES AS SPECIFIED USING TABLE 2 WHERE APPROPRIATE.

NOTE:

- THE ABOVE FASTENING DETAIL HAS BEEN BASED ON THE RELEVANT MAXIMUM DESIGN SPAN LIMITS AS GIVEN IN TABLE 2.



SECTION 4 PART PLAN
SCALE = 1:2

GUIDE SUPPORTED BY STEEL FRAME (REFER TO TABLE 3 FOR FASTENING DETAILS).

NOTE:

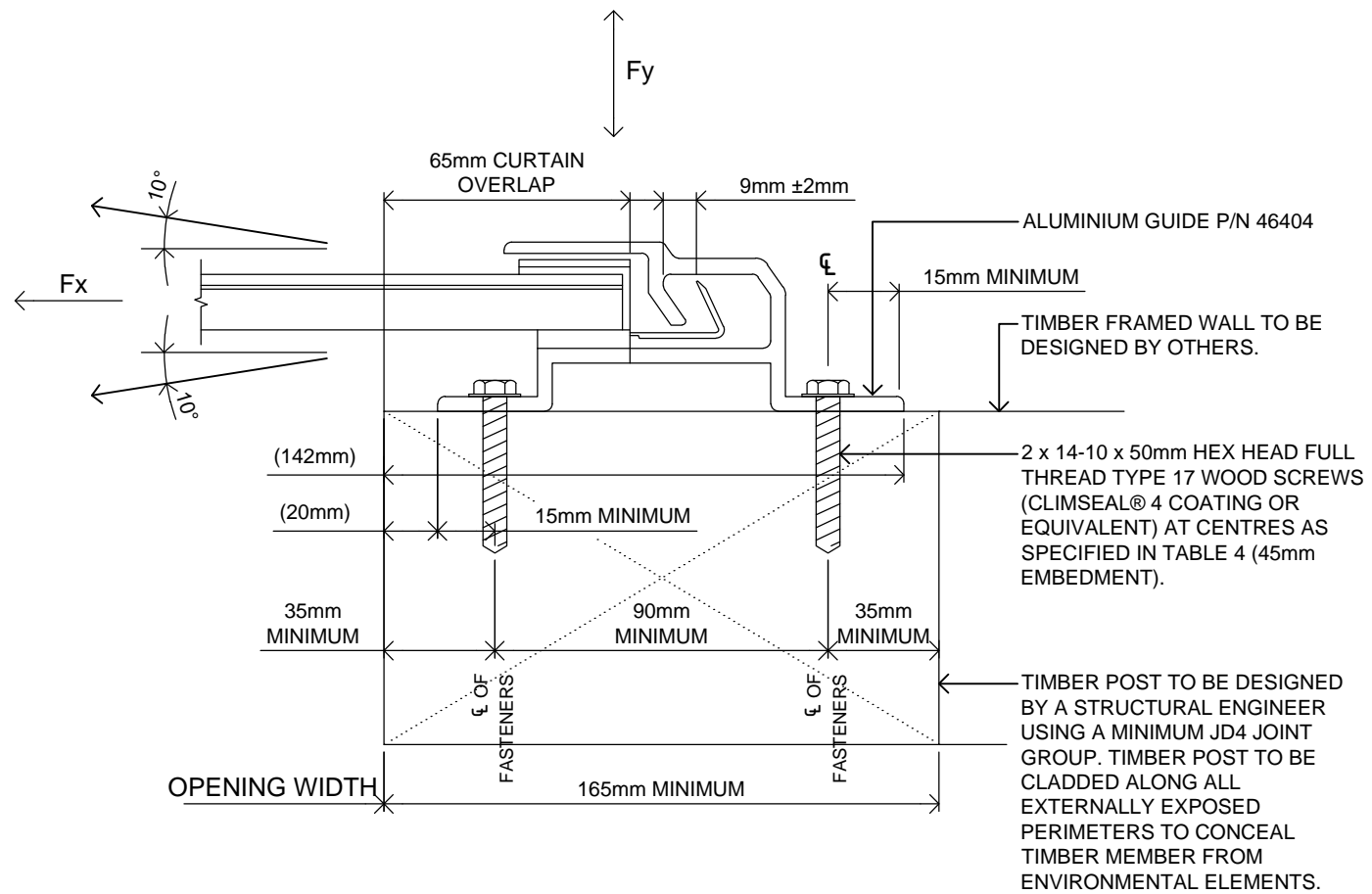
- THE ABOVE FASTENING DETAIL HAS BEEN BASED ON THE RELEVANT MAXIMUM DESIGN SPAN LIMITS AS GIVEN IN TABLE 3.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL® 4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.

ISSUE	DATE	AMENDMENTS
M	14.08.17	SERIES 2 PROFILE AMENDED AND SERIES 3 PROFILE ADDED
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P	15.10.21	GENERAL REVISION
Q	02.05.23	GENERAL REVISION

CLIENT	B&D AUSTRALIA PTY LTD
PROJECT	B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR SUPPORT SECTION DETAILS	SCALE	
		DESIGNED	J.E.
		DRAWN	AAB
		CHECKED & APPROVED	<i>[Signature]</i>
		DATE	May 2023

DRAWING No.	S02 q
PROJECT No.	2289



SECTION 4 PART PLAN
 SCALE = 1:2

GUIDE SUPPORTED BY TIMBER FRAME (REFER TO TABLE 4 FOR FASTENING DETAILS).

NOTE:

- THE ABOVE FASTENING DETAIL HAS BEEN BASED ON THE RELEVANT MAXIMUM DESIGN SPAN LIMITS AS GIVEN IN TABLE 4.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL® 4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.

ISSUE	DATE	AMENDMENTS
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CLIENT	B&D AUSTRALIA PTY LTD
PROJECT	B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR SUPPORT SECTION DETAILS	SCALE	
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		DRAWN	AAB
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PROJECT No.	2289



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TABLE 1a
QUICK REFERENCE GUIDE ON MAXIMUM ALLOWABLE SPANS FOR BUILDERS AND BUILDING CERTIFIERS

CURTAIN THICKNESS = 0.5mm					
REGION	TERRAIN CATEGORY	SERIES 2		SERIES 3	
		CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT	CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT
A0-A5	2	5.5m	5.5m	5.5m	5.5m
A1-A5	2.5	5.5m	5.5m	5.5m	5.5m
	3	5.5m	5.5m	5.5m	5.5m
B1	2	5.5m	4.3m	5.5m	4.3m
	2.5	5.5m	4.8m	5.5m	4.6m
	3	5.5m	5.4m	5.5m	5.1m
B2	2	5.5m	3.0m	5.5m	3.0m
	2.5	5.5m	3.6m	5.5m	3.6m
	3	5.5m	4.2m	5.5m	4.2m
C	2	5.5m	N/A	5.3m	N/A
	2.5	5.5m	N/A	5.5m	N/A
D	2	3.0m	N/A	3.0m	N/A
	2.5	3.3m	N/A	3.3m	N/A

NOTE: THE BUILDING DESIGN ENGINEER IS TO VERIFY THAT THE MAXIMUM ALLOWABLE SPANS GIVEN IN TABLE 1a FOR ANY GIVEN WIND REGION AND TERRAIN CATEGORY ARE ALSO WITHIN THE MAXIMUM ULTIMATE DESIGN WIND CAPACITY LIMITS GIVEN IN FIGURES A1 AND C1 AS APPROPRIATE FOR ANY GIVEN SPAN WHEN COMPARING THESE CAPACITY PRESSURES TO THE SITE SPECIFIC DESIGN WIND PRESSURES.

TABLE 1b
QUICK REFERENCE GUIDE ON MAXIMUM ALLOWABLE SPANS FOR BUILDERS AND BUILDING CERTIFIERS

CURTAIN THICKNESS = 0.4mm					
REGION	TERRAIN CATEGORY	SERIES 2		SERIES 3	
		CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT	CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT
A0-A5	2	5.5m	5.5m	5.5m	5.5m
A1-A5	2.5	5.5m	5.5m	5.5m	5.5m
	3	5.5m	5.5m	5.5m	5.5m
B1	2	5.5m	4.0m	5.5m	4.0m
	2.5	5.5m	4.4m	5.5m	4.4m
	3	5.5m	4.8m	5.5m	4.8m
B2	2	5.5m	N/A	5.5m	N/A
	2.5	5.5m	3.0m	5.5m	3.0m
	3	5.5m	3.9m	5.5m	3.9m
C	2	4.8m	N/A	4.8m	N/A
	2.5	5.2m	N/A	5.1m	N/A
D	2	N/A	N/A	N/A	N/A
	2.5	3.0m	N/A	3.0m	N/A

NOTE: THE BUILDING DESIGN ENGINEER IS TO VERIFY THAT THE MAXIMUM ALLOWABLE SPANS GIVEN IN TABLE 1b FOR ANY GIVEN WIND REGION AND TERRAIN CATEGORY ARE ALSO WITHIN THE MAXIMUM ULTIMATE DESIGN WIND CAPACITY LIMITS GIVEN IN FIGURES B1 AND D1 AS APPROPRIATE FOR ANY GIVEN SPAN WHEN COMPARING THESE CAPACITY PRESSURES TO THE SITE SPECIFIC DESIGN WIND PRESSURES.

TABLE 4

FASTENING SPECIFICATIONS OF ALUMINIUM GUIDE ONTO TIMBER FRAMED ABUTMENTS		
SPAN	CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT
3000-3499mm	2 x 14-10 TYPE 17 WOOD SCREWS AT 125 CTS.	2 x 14-10 TYPE 17 WOOD SCREWS AT 250 CTS.
3500-3999mm	2 x 14-10 TYPE 17 WOOD SCREWS AT 125 CTS.	2 x 14-10 TYPE 17 WOOD SCREWS AT 250 CTS.
4000-4499mm	2 x 14-10 TYPE 17 WOOD SCREWS AT 125 CTS.	2 x 14-10 TYPE 17 WOOD SCREWS AT 250 CTS.
4500-4999mm	2 x 14-10 TYPE 17 WOOD SCREWS AT 100 CTS.	2 x 14-10 TYPE 17 WOOD SCREWS AT 200 CTS.
5000-5500mm	2 x 14-10 TYPE 17 WOOD SCREWS AT 100 CTS.	2 x 14-10 TYPE 17 WOOD SCREWS AT 200 CTS.

NOTE: FOR SPANS LESS THAN 3m USE FASTENING SPECIFICATIONS AS FOR SPANS 3000-3499mm

NOTE:

- FOR WIND REGIONS A0-A5, B1 & B2, INTERNAL PRESSURE COEFFICIENTS (C_{pi}) OF -0.3 & +0.2 WERE NOMINALLY ADOPTED.
- FOR WIND REGIONS C & D, INTERNAL PRESSURE COEFFICIENTS (C_{pi}) OF -0.4 & +0.55 WERE NOMINALLY ADOPTED.
- MAXIMUM ALLOWABLE SPANS = CURTAIN WIDTH.
- SPAN = CURTAIN WIDTH.
- CURTAIN WIDTH = OPENING WIDTH + CURTAIN OVERLAPS (REFER DRAWINGS S02, S03 & S04).
- FASTENING SPECIFICATIONS WERE BASED ON THE MAXIMUM ULTIMATE DESIGN WIND PRESSURE RATINGS DERIVED FOR EACH GIVEN SPAN AS NOMINATED IN FIGURES A1, B1, C1 AND D1.

TABLE 2

FASTENING SPECIFICATIONS OF ALUMINIUM GUIDE ONTO BLOCKWALL ABUTMENTS		
SPAN	CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT
3000-3499mm	1 x M10 GAL ANKASCREW AT 250 CTS.	1 x M10 GAL ANKASCREW AT 400 CTS.
3500-3999mm	1 x M10 GAL ANKASCREW AT 250 CTS.	1 x M10 GAL ANKASCREW AT 400 CTS.
4000-4499mm	1 x M10 GAL ANKASCREW AT 225 CTS.	1 x M10 GAL ANKASCREW AT 400 CTS.
4500-4999mm	1 x M10 GAL ANKASCREW AT 200 CTS.	1 x M10 GAL ANKASCREW AT 400 CTS.
5000-5500mm	1 x M10 GAL ANKASCREW AT 200 CTS.	1 x M10 GAL ANKASCREW AT 400 CTS.

NOTE: FOR SPANS LESS THAN 3m USE FASTENING SPECIFICATIONS AS FOR SPANS 3000-3499mm



TABLE 3

FASTENING SPECIFICATIONS OF ALUMINIUM GUIDE ONTO 3.0mm (MINIMUM) THICK G250 STEEL ABUTMENTS		
SPAN	CLIPS AT EVERY FLAT	CLIPS AT EVERY SECOND FLAT
3000-3499mm	2 x 14-20 TEK SCREWS AT 300 CTS.	2 x 14-20 TEK SCREWS AT 400 CTS.
3500-3999mm	2 x 14-20 TEK SCREWS AT 300 CTS.	2 x 14-20 TEK SCREWS AT 400 CTS.
4000-4499mm	2 x 14-20 TEK SCREWS AT 275 CTS.	2 x 14-20 TEK SCREWS AT 400 CTS.
4500-4999mm	2 x 14-20 TEK SCREWS AT 250 CTS.	2 x 14-20 TEK SCREWS AT 400 CTS.
5000-5500mm	2 x 14-20 TEK SCREWS AT 250 CTS.	2 x 14-20 TEK SCREWS AT 400 CTS.

NOTE: FOR SPANS LESS THAN 3m USE FASTENING SPECIFICATIONS AS FOR SPANS 3000-3499mm

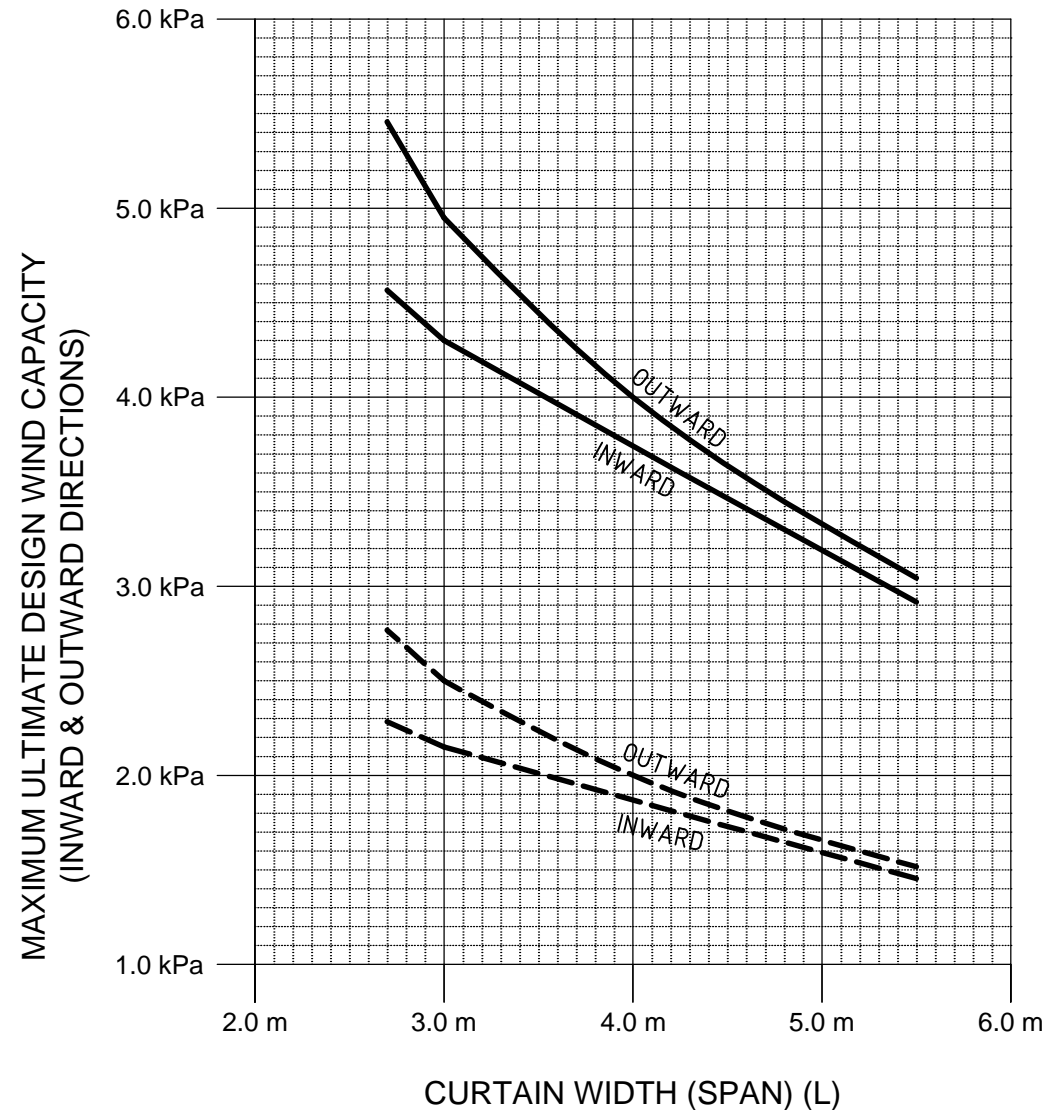
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CLIENT B&D AUSTRALIA PTY LTD
PROJECT B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

DRAWING SERIES 2 AND SERIES 3 ROLL-A-DOOR TABLES	SCALE
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	DRAWN AAB
	CHECKED & APPROVED 
	DATE May 2023

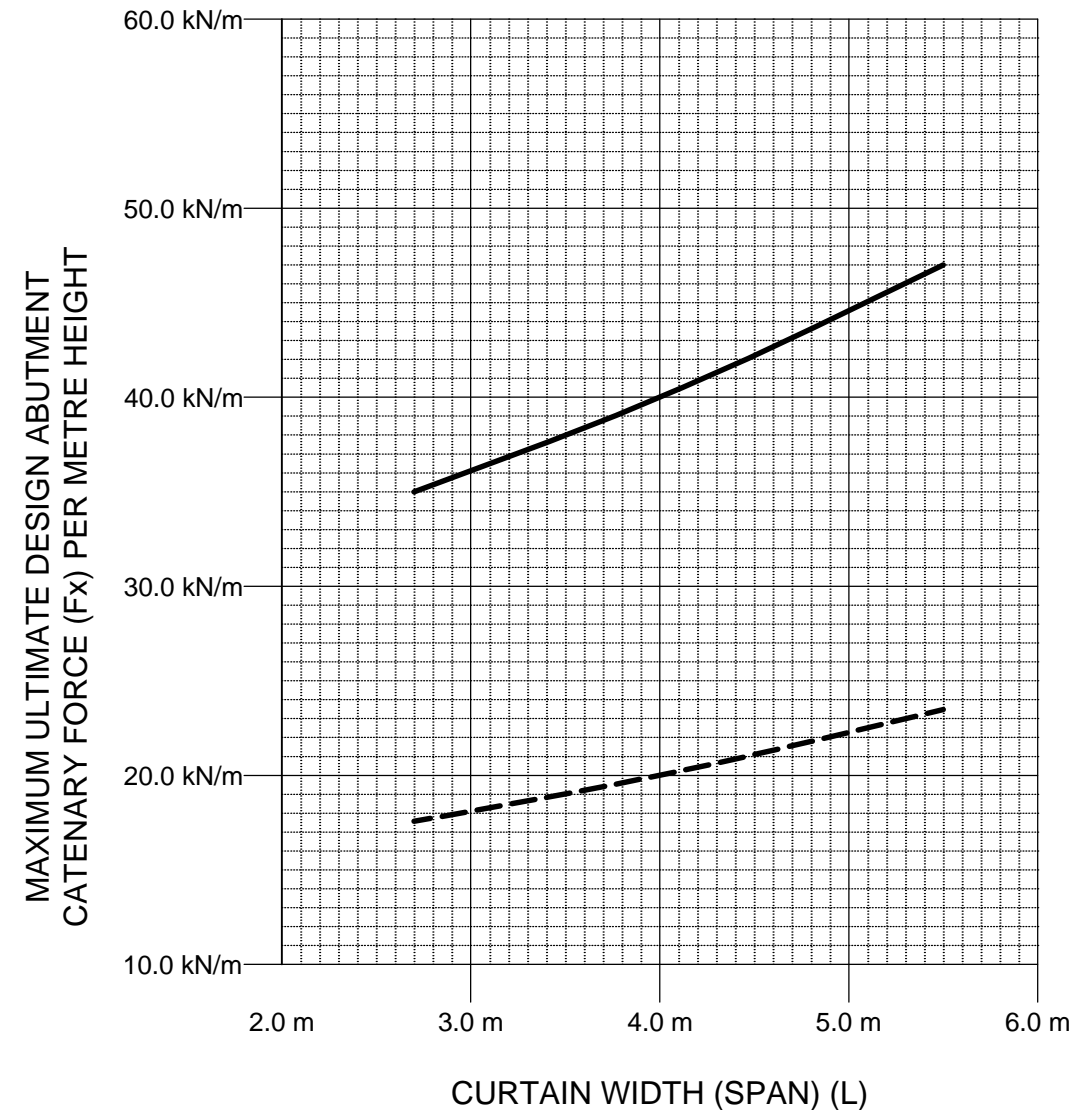
DRAWING No. S05 q
PROJECT No. 2289

FIGURE (A1)
ULTIMATE DESIGN WIND
CAPACITY FOR A GIVEN SPAN
USING A CURTAIN THICKNESS OF
0.5mm WITH A SERIES 2 PROFILE



——— CLIPS AT EVERY FLAT
 - - - CLIPS AT EVERY SECOND FLAT
 NOTE: EXTRAPOLATION IS NOT PERMITTED
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS

FIGURE (A2)
ULTIMATE DESIGN CATENARY FORCE
FOR A GIVEN SPAN WHEN USING A
CURTAIN THICKNESS OF 0.5mm WITH
A SERIES 2 PROFILE



——— CLIPS AT EVERY FLAT
 - - - CLIPS AT EVERY SECOND FLAT
 NOTE: DESIGN ABUTMENT FORCES HAVE BEEN DERIVED USING THE
 MAXIMUM ULTIMATE DESIGN WIND CAPACITY FOR THAT GIVEN SPAN.
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS
 NOTE: $F_y = \frac{WL}{2}$
 WHERE F_y = MAXIMUM OUT OF PLANE ULTIMATE DESIGN
 ABUTMENT FORCE (PER METRE HEIGHT)
 W = ULTIMATE DESIGN WIND PRESSURE (kPa)
 L = CURTAIN WIDTH (SPAN) (m)

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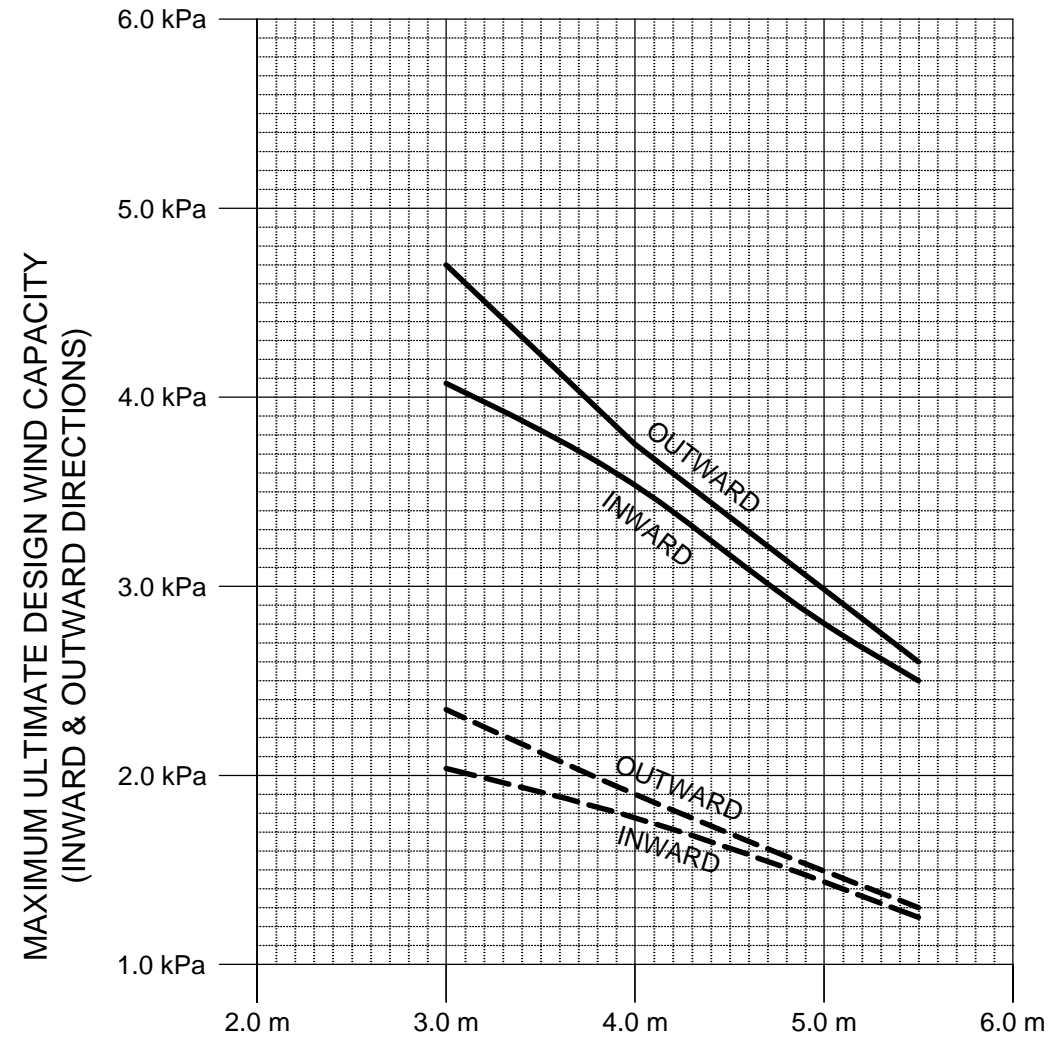
DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR DESIGN GRAPHS	SCALE	
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		DRAWN	AAB
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FIGURE (B1)
ULTIMATE DESIGN WIND
CAPACITY FOR A GIVEN SPAN
USING A CURTAIN THICKNESS OF
0.4mm WITH A SERIES 2 PROFILE

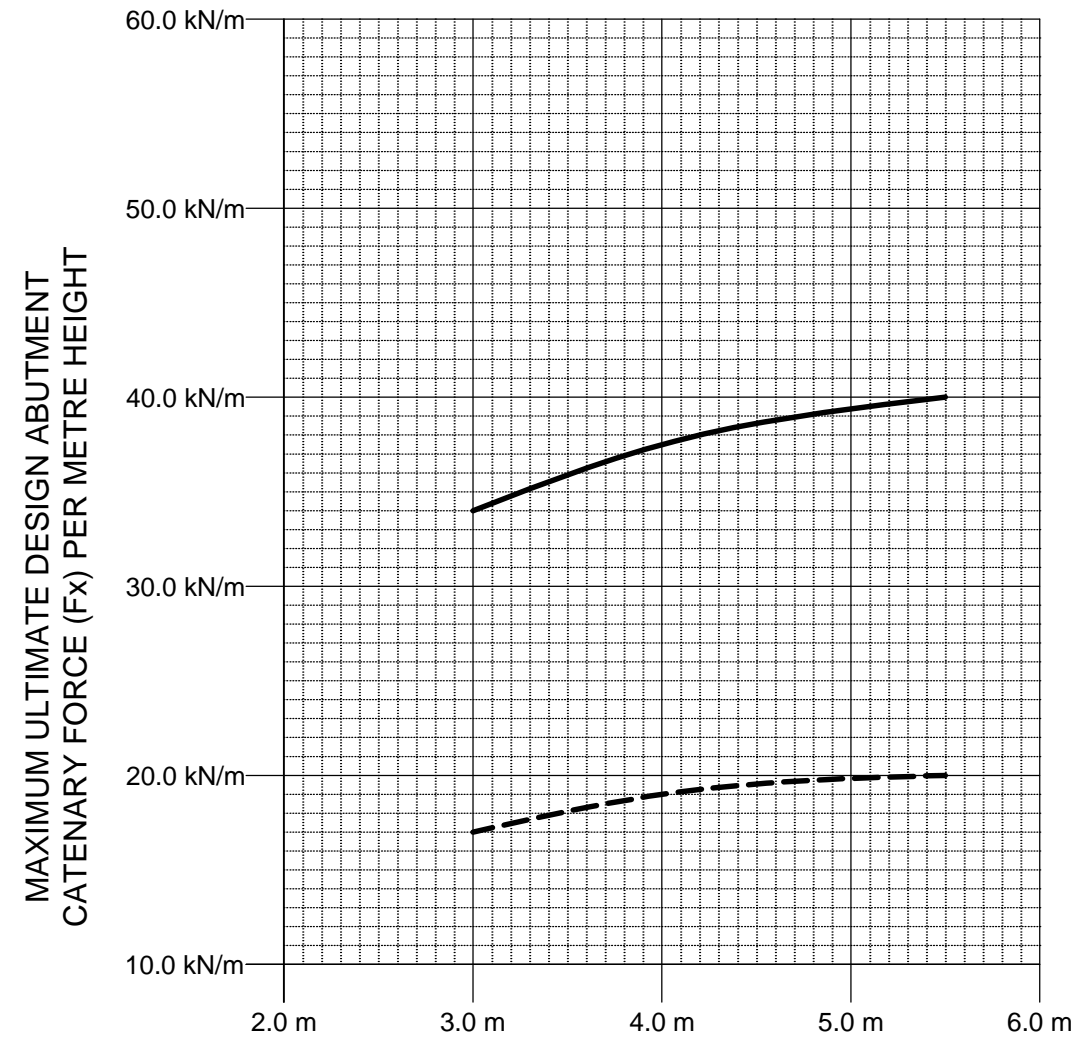


CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: EXTRAPOLATION IS NOT PERMITTED
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS

FIGURE (B2)
ULTIMATE DESIGN CATENARY
FORCE FOR A GIVEN SPAN WHEN
USING A CURTAIN THICKNESS OF
0.4mm WITH A SERIES 2 PROFILE



CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: DESIGN ABUTMENT FORCES HAVE BEEN DERIVED USING THE
 MAXIMUM ULTIMATE DESIGN WIND CAPACITY FOR THAT GIVEN SPAN.
 CURTAIN WIDTH (L)= OPENING WIDTH + CURTAIN OVERLAPS

NOTE: $F_y = \frac{WL}{2}$
 WHERE F_y = MAXIMUM OUT OF PLANE ULTIMATE DESIGN
 ABUTMENT FORCE (PER METRE HEIGHT)
 W = ULTIMATE DESIGN WIND PRESSURE (kPa)
 L = CURTAIN WIDTH (SPAN) (m)

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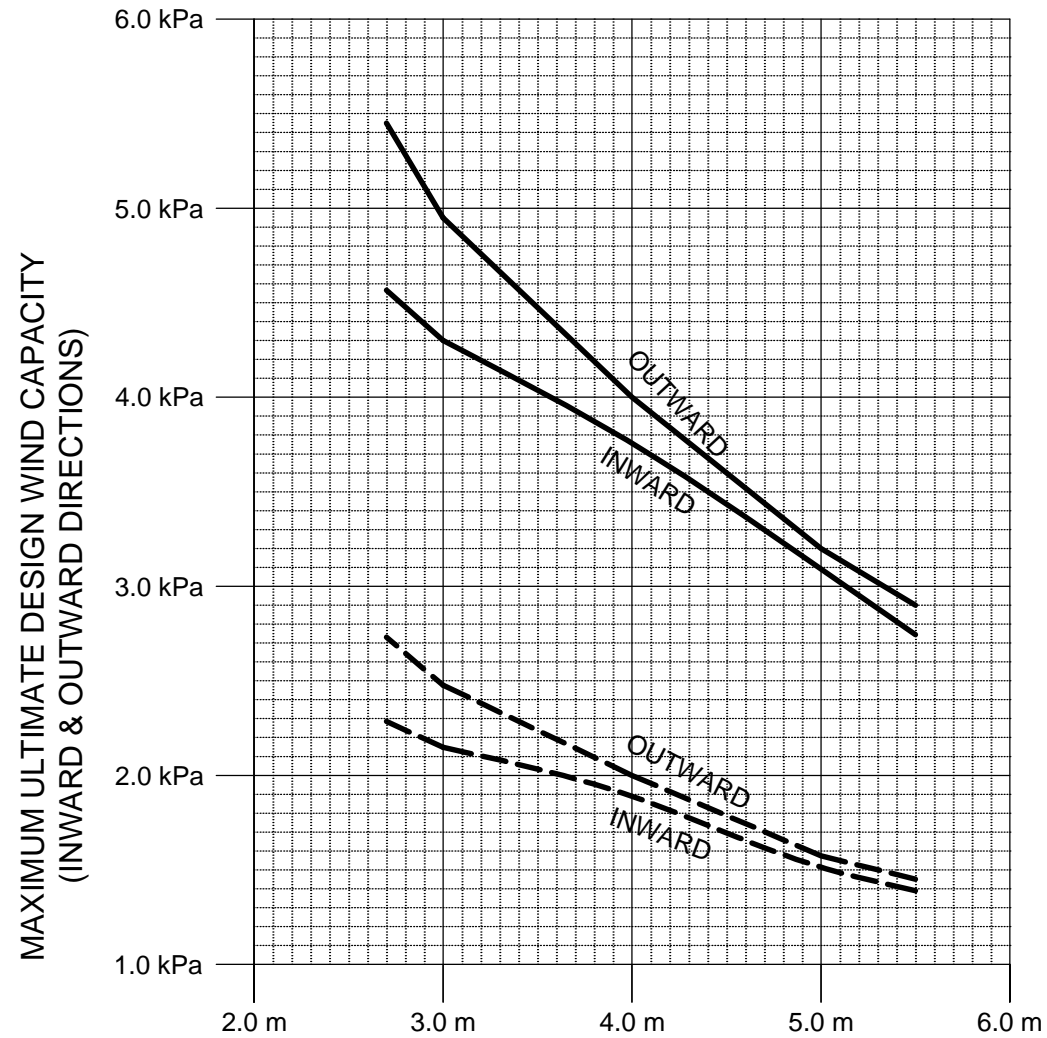
DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR DESIGN GRAPHS	SCALE	
		DESIGNED	J.E.
		DRAWN	AAB
		CHECKED & APPROVED	<i>[Signature]</i>
		DATE	May 2023

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FIGURE (C1)
MAXIMUM ULTIMATE DESIGN WIND CAPACITY FOR A GIVEN SPAN USING A CURTAIN THICKNESS OF 0.5mm WITH A SERIES 3 PROFILE

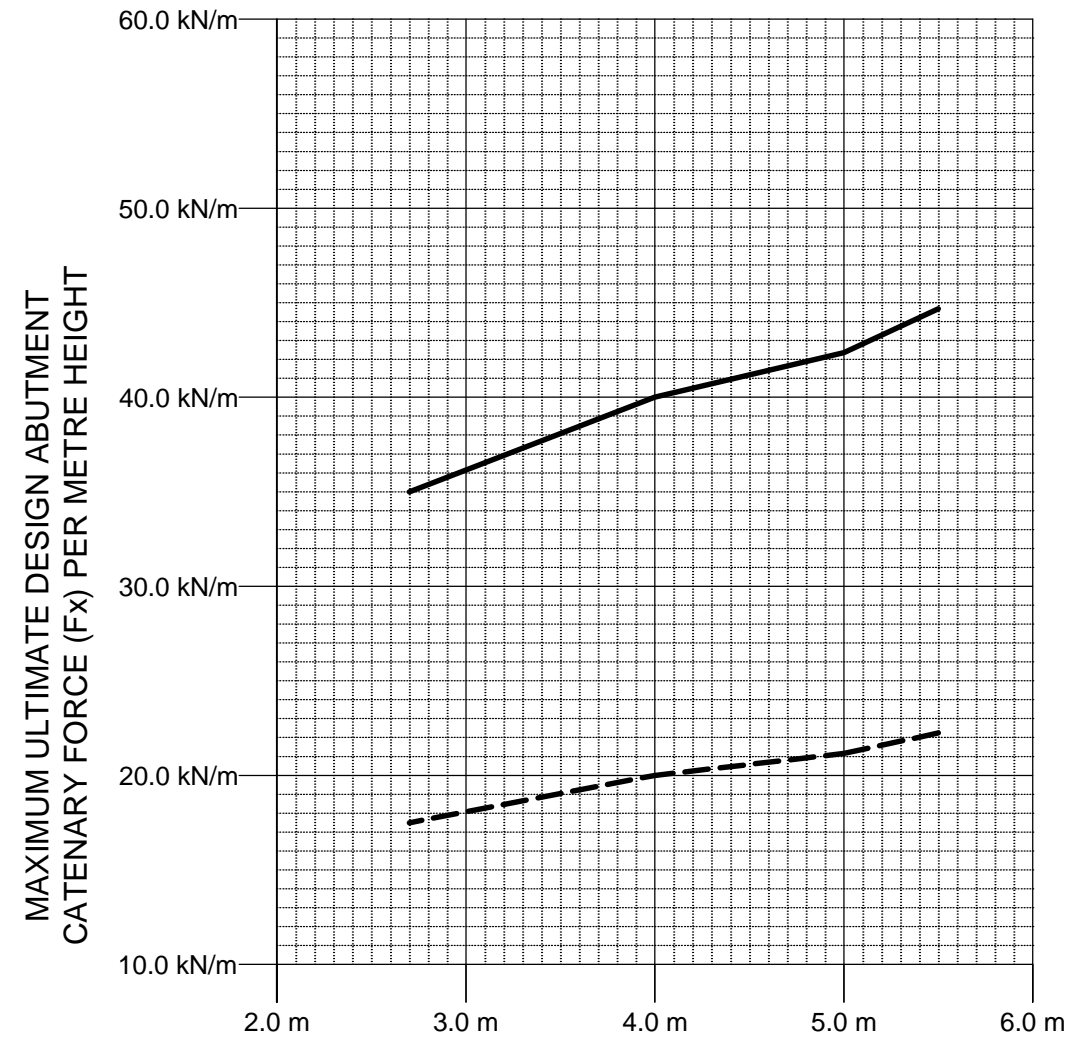


CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: EXTRAPOLATION IS NOT PERMITTED
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS

FIGURE (C2)
MAXIMUM ULTIMATE DESIGN ABUTMENT CATENARY FORCE FOR A GIVEN SPAN USING A CURTAIN THICKNESS OF 0.5mm WITH A SERIES 3 PROFILE



CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: DESIGN ABUTMENT FORCES HAVE BEEN DERIVED USING THE MAXIMUM ULTIMATE DESIGN WIND CAPACITY FOR THAT GIVEN SPAN.
 CURTAIN WIDTH (L)= OPENING WIDTH + CURTAIN OVERLAPS

NOTE: $F_y = \frac{WL}{2}$
 WHERE F_y = MAXIMUM OUT OF PLANE ULTIMATE DESIGN ABUTMENT FORCE (PER METRE HEIGHT)
 W = ULTIMATE DESIGN WIND PRESSURE (kPa)
 L = CURTAIN WIDTH (SPAN) (m)

ISSUE	DATE	AMENDMENTS
M	14.08.17	SERIES 2 PROFILE AMENDED AND SERIES 3 PROFILE ADDED
N	19.10.17	GENERAL REVISION
P	15.10.21	GENERAL REVISION
Q	02.05.23	GENERAL REVISION

CLIENT	B&D AUSTRALIA PTY LTD
PROJECT	B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

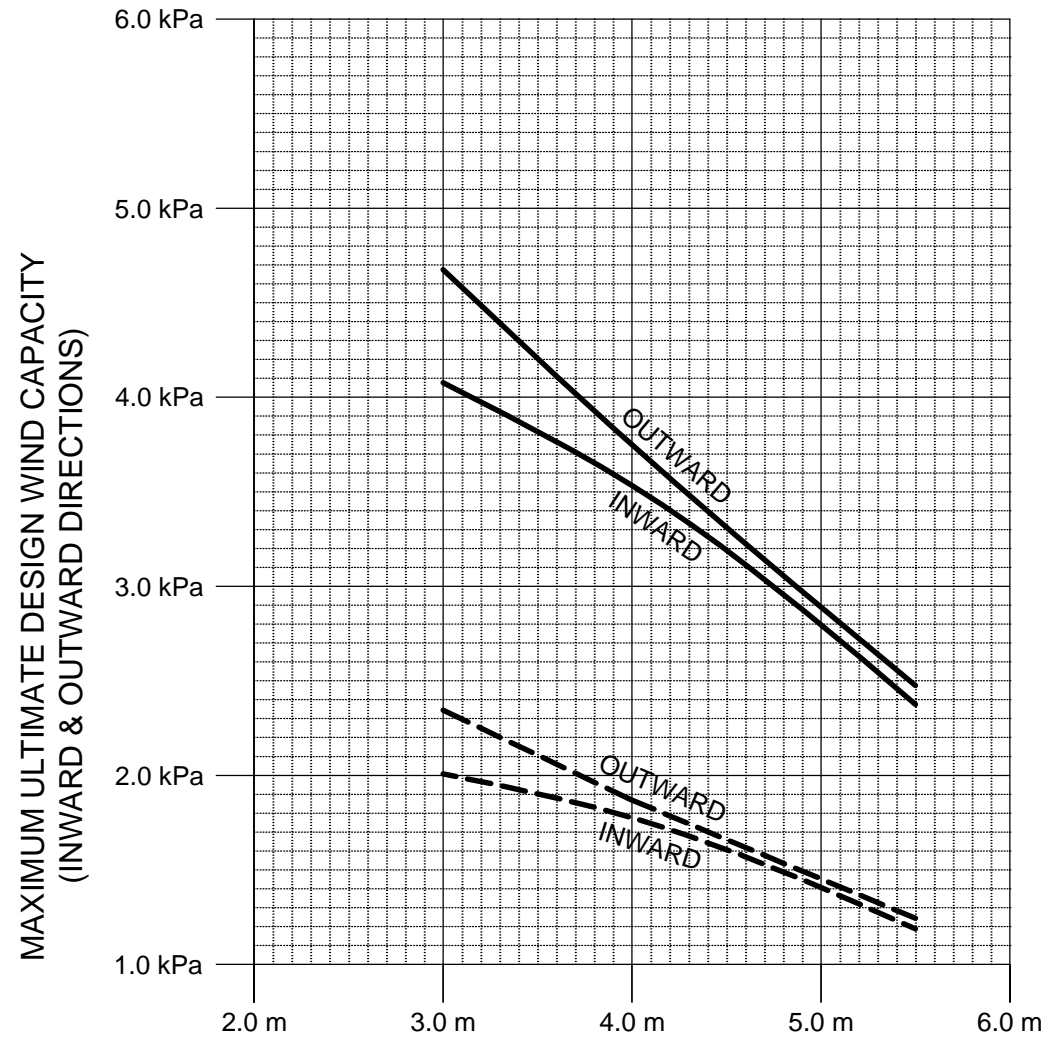
DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR DESIGN GRAPHS	SCALE	
		DESIGNED	J.E.
		DRAWN	AAB
		CHECKED & APPROVED	<i>[Signature]</i>
		DATE	May 2023

DRAWING No.	S08 q
PROJECT No.	2289



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FIGURE (D1)
MAXIMUM ULTIMATE DESIGN WIND
CAPACITY FOR A GIVEN SPAN
USING A CURTAIN THICKNESS OF
0.4mm WITH A SERIES 3 PROFILE

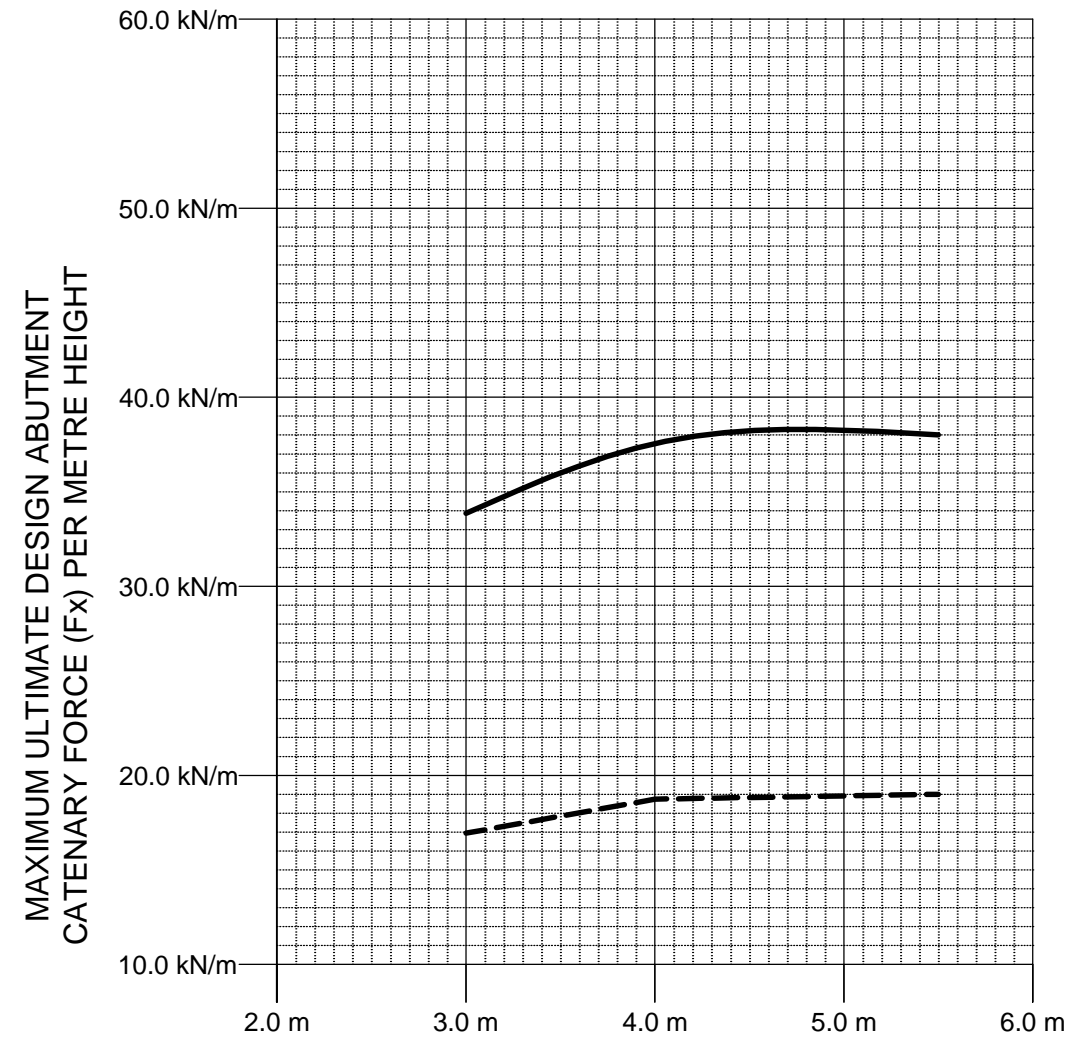


CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: EXTRAPOLATION IS NOT PERMITTED
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS

FIGURE (D2)
MAXIMUM ULTIMATE DESIGN ABUTMENT
CATENARY FORCE FOR A GIVEN SPAN
USING A CURTAIN THICKNESS OF 0.4mm
WITH A SERIES 3 PROFILE



CURTAIN WIDTH (SPAN) (L)

- CLIPS AT EVERY FLAT
- CLIPS AT EVERY SECOND FLAT

NOTE: DESIGN ABUTMENT FORCES HAVE BEEN DERIVED USING THE
 MAXIMUM ULTIMATE DESIGN WIND CAPACITY FOR THAT GIVEN SPAN.
 CURTAIN WIDTH (L) = OPENING WIDTH + CURTAIN OVERLAPS

NOTE: $F_y = \frac{WL}{2}$
 WHERE F_y = MAXIMUM OUT OF PLANE ULTIMATE DESIGN
 ABUTMENT FORCE (PER METRE HEIGHT)
 W = ULTIMATE DESIGN WIND PRESSURE (kPa)
 L = CURTAIN WIDTH (SPAN) (m)

ISSUE	DATE	AMENDMENTS
M	14.08.17	SERIES 2 PROFILE AMENDED AND SERIES 3 PROFILE ADDED
N	19.10.17	GENERAL REVISION
P	15.10.21	GENERAL REVISION
Q	02.05.23	GENERAL REVISION

CLIENT	B&D AUSTRALIA PTY LTD
PROJECT	B&D SERIES 2 AND SERIES 3 ROLL-A-DOOR FOR USE IN ALL WIND REGIONS

DRAWING	SERIES 2 AND SERIES 3 ROLL-A-DOOR DESIGN GRAPHS	SCALE	
		DESIGNED	J.E.
		DRAWN	AAB
		CHECKED & APPROVED	<i>[Signature]</i>
		DATE	May 2023

DRAWING No.	S09q
PROJECT No.	2289



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