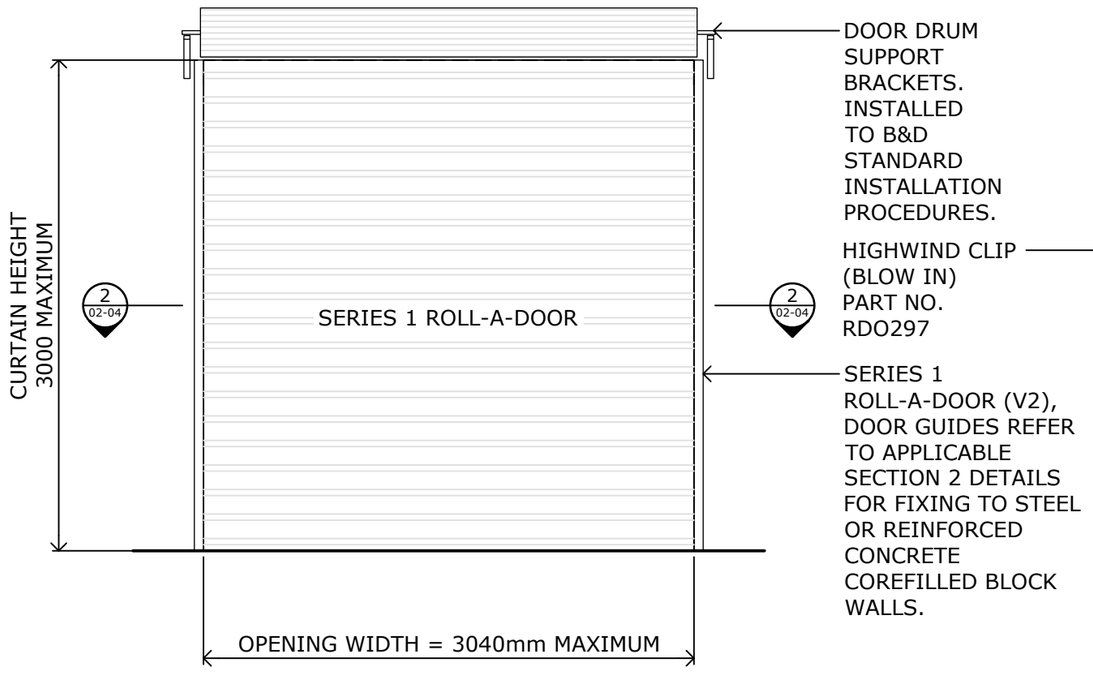
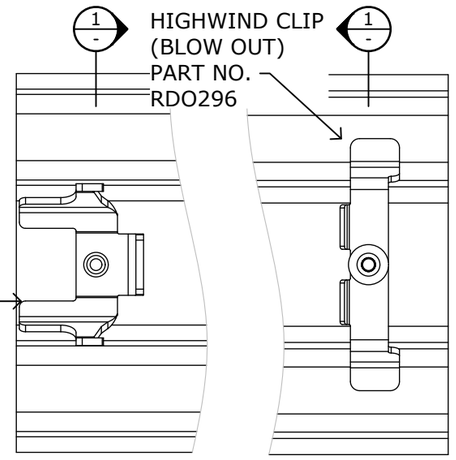
NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



SERIES 1 ROLL-A-DOOR (V2) ELEVATION - TYPICAL

SCALE 1:50



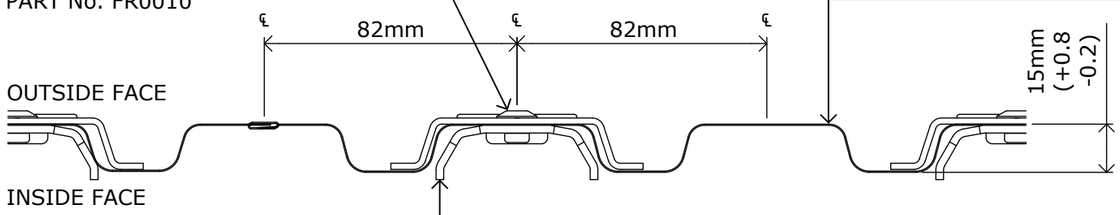
INSIDE VIEW OUTSIDE VIEW

CURTAIN MATERIAL AND WINDCLIPS - PART PLANS

SCALE 1:2

NOTE: NYLOFELT STRIPS (PART 000477) ARE NOT SHOWN ON PART PLANS FOR CLARITY PURPOSES. NYLOFELT STRIPS TO BE INSTALLED ON EACH OF THE INTERNAL AND EXTERNAL FACES OF THE CURTAIN IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.

1 x Ø6.4 STEEL RIVET (13mm LONG) AT EVERY WINDCLIP LOCATION PART No. FR0010



CURTAIN PART NO. RD0116 TO INCLUDE THE FOLLOWING B&D PRODUCT/MODEL NAMES:

a) R1D - ROLL-A-DOOR
b) R1P - ROLLMASTA
c) R1M - MINIWAREHOUSE
d) R1S - BEST SHEDS

CURTAIN PROFILE SECTION 1 / -

SCALE = 1:2

A MINIMUM OF SEVEN (7) CURTAIN WINDCLIPS TO BE INSTALLED AT EACH ENDS OF THE CURTAIN SPAN FOR EVERY STANDARD 985mm OF CURTAIN SHEET WIDTH. (i.e. 14 CLIPS IN TOTAL PER 985mm WIDTH OF CURTAIN SHEET). WINDCLIPS TO BE INSTALLED ALONG BOTH ENDS OF ALL STANDARD CURTAIN SHEET WIDTHS FOR THE FULL DOOR OPENING HEIGHT WHEN THE DOOR IS IN ITS CLOSED POSITION.

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS1316 DATED 8th DECEMBER 2023 (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- PRINCIPLES OF MECHANICS.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) INSTALLATION GUIDELINES.

Checking Engineer

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 30/04/2025
Signature:

Must be an **Australian** registered **s**tructural engineer

Certifying Engineer

Name: FOCUS BUILDING APPROVALS P/L
NT Registration Number: 255591ES
Date: 30/04/2025
Signature:

Must be a registered structural engineer in the **Northern Territory**

Product Name

B&D SERIES 1 ROLL-A-DOOR (V2)

Product Description

WINDLOCKED ROLLER DOOR

Manufacturer's Details

B&D AUSTRALIA PTY LTD

34-36 MARIGOLD STREET, REVESBY NSW 2212 PH: 136 263

Design Criteria

- REGION C
- TERRAIN CATEGORY 2.5
- DOOR HEIGHT 3.0m MAX.
- BUILDING IMPORTANCE LEVEL 2
- REGION WINDSPEED VR = 66m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  INWARD RATING = 3.2kPa
  OUTWARD RATING = 3.4kPa
- THE ABOVE WIND RATINGS APPLY TO A MAXIMUM ALLOWABLE OPENING WIDTH OF 3040mm.
- DESIGNERS SHALL TAKE INTO ACCOUNT HIGH LOCAL PRESSURE AREAS WHEN VERIFYING THE DOOR ULTIMATE DESIGN WIND PRESSURE LOADINGS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS PART 2:WIND ACTIONS.
- AS/NZS 4505:2012 GARAGE DOORS & OTHER LARGE ACCESS DOORS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0:GENERAL PRINCIPLES.
- AS 4100:2020 STEEL STRUCTURES
- AS 3700-2018 MASONRY STRUCTURES
- AS/NZS 4600: 2018 COLD FORMED STRUCTURES
- AS/NZS 1664.1:1997 ALUMINUM STRUCTURES PART1:LIMIT STATE DESIGN
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 3600: 2018 CONCRETE STRUCTURES.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 UNLESS NOTED OTHERWISE AS SPECIFIED IN TABLE 1 (ON DRAWING S04).
- 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 SHALL BE ADOPTED IF NEEDED PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (ie. CORNERS OF BUILDINGS), PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: **M/332/01 - 05** DRAWING No. S01

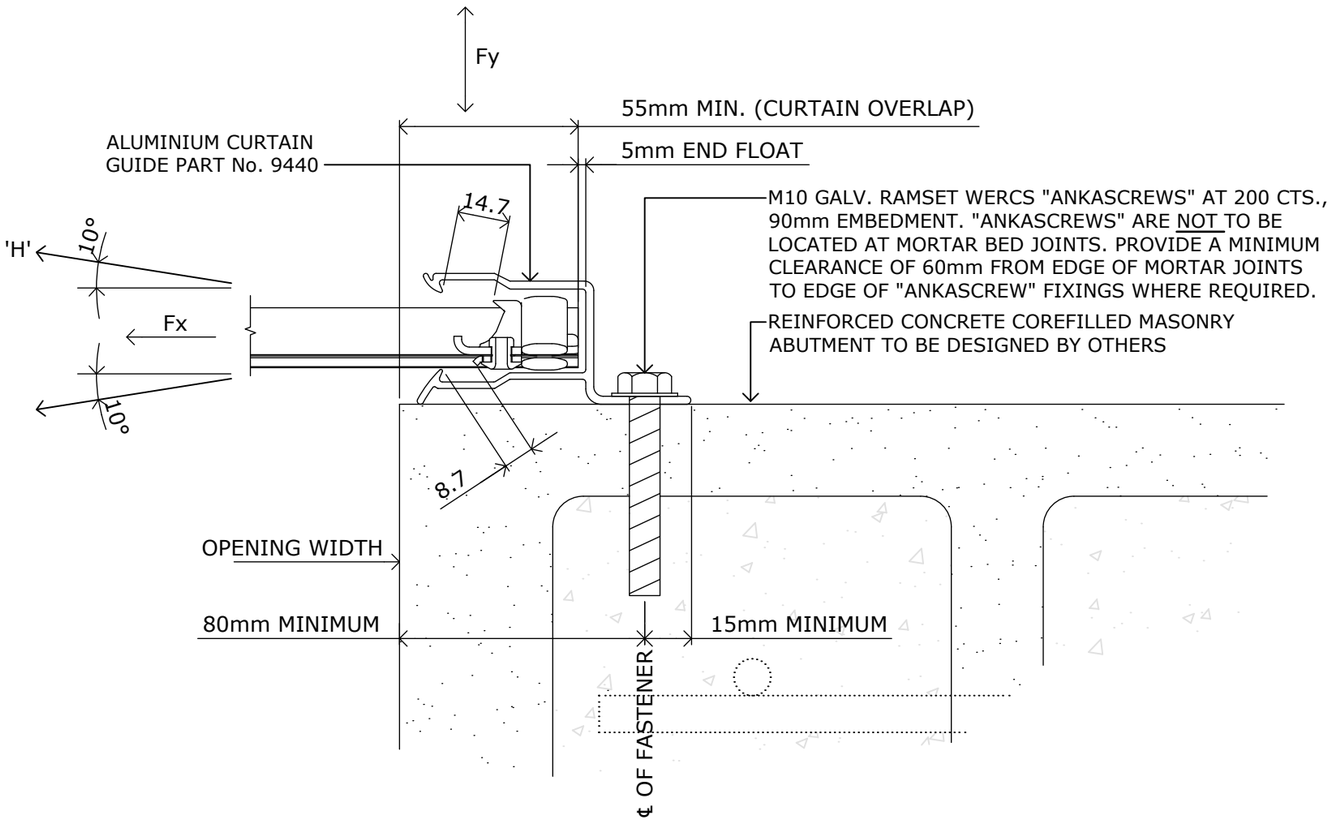
Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 05/06/2025 Expiry Date: 04/06/2030

NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



FIXING TO REINFORCED CORE-FILLED BLOCKWORK

SECTION 2 S01 PLAN

SCALE = 1:2

GUIDE SUPPORTED BY REINFORCED CONCRETE COREFILLED MASONRY UNITS FOR A MAXIMUM OPENING WIDTH OF 3040mm IN REGION C TC2.5 AND UP TO A MAXIMUM DESIGN WIND PRESSURE RATING AS STIPULATED IN THE DESIGN CRITERIA.

NOTE:

- FIXINGS INTO REINFORCED CONCRETE COREFILLED BLOCK WALL ABUTMENTS HAVE BEEN DESIGNED USING THE RAMSET-SPECIFIERS RESOURCE BOOK.
- SIMILAR DETAIL APPLIES WHEN FIXING INTO REINFORCED CONCRETE WALL PANELS.

Product Name

B&D SERIES 1 ROLL-A-DOOR (V2)

Product Description

WINDLOCKED ROLLER DOOR

Manufacturer's Details

B&D AUSTRALIA PTY LTD
34-36 MARIGOLD STREET, REVESBY NSW 2212 PH: 136 263

Design Criteria

- REGION C
- TERRAIN CATEGORY 2.5
- DOOR HEIGHT 3.0m MAX.
- BUILDING IMPORTANCE LEVEL 2
- REGION WINDSPEED VR = 66m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  INWARD RATING = 3.2kPa
  OUTWARD RATING = 3.4kPa
- THE ABOVE WIND RATINGS APPLY TO A MAXIMUM ALLOWABLE OPENING WIDTH OF 3040mm.
- DESIGNERS SHALL TAKE INTO ACCOUNT HIGH LOCAL PRESSURE AREAS WHEN VERIFYING THE DOOR ULTIMATE DESIGN WIND PRESSURE LOADINGS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS PART 2:WIND ACTIONS.
- AS/NZS 4505:2012 GARAGE DOORS & OTHER LARGE ACCESS DOORS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0:GENERAL PRINCIPLES.
- AS 4100:2020 STEEL STRUCTURES
- AS 3700-2018 MASONRY STRUCTURES
- AS/NZS 4600: 2018 COLD FORMED STRUCTURES
- AS/NZS 1664.1:1997 ALUMINUM STRUCTURES PART1:LIMIT STATE DESIGN
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 3600: 2018 CONCRETE STRUCTURES.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 UNLESS NOTED OTHERWISE AS SPECIFIED IN TABLE 1 (ON DRAWING S04).
- 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 SHALL BE ADOPTED IF NEEDED PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (ie. CORNERS OF BUILDINGS), PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: **M/332/01 - 05** DRAWING No. S02

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS1316 DATED 8th DECEMBER 2023 (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- PRINCIPLES OF MECHANICS.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) INSTALLATION GUIDELINES.

Checking Engineer

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 30/04/2025
Signature:

Must be an **Australian** registered **s**tructural engineer

Certifying Engineer

Name: FOCUS BUILDING APPROVALS P/L
NT Registration Number: 255591ES
Date: 30/04/2025
Signature:

Must be a registered structural engineer in the **Northern Territory**

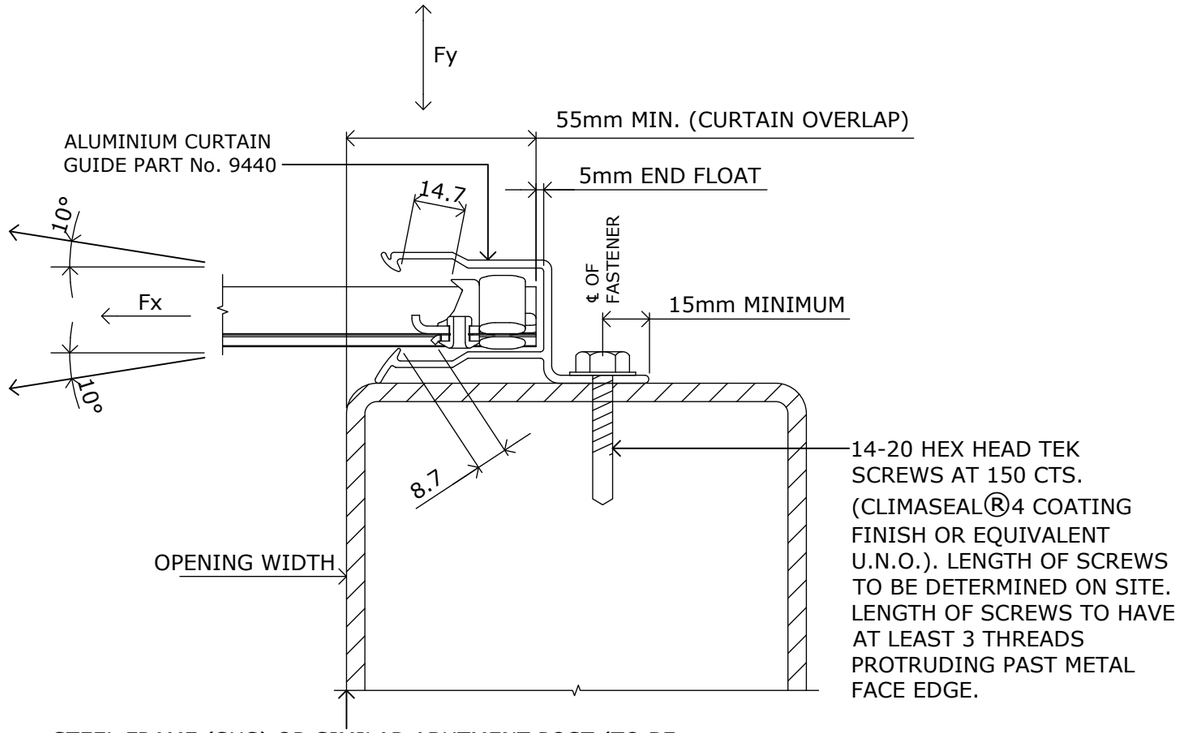
Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 05/06/2025 Expiry Date: 04/06/2030

NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



STEEL FRAME (SHS) OR SIMILAR ABUTMENT POST (TO BE DESIGNED BY OTHERS), MINIMUM THICKNESS TO BE 2.4mm. ALL STEEL SURFACES IN CONTACT WITH THE ALUMINUM GUIDE ARE TO BE APPROPRIATELY PAINTED TO AVOID THE ONSET OF CORROSION (SPECIFICATION BY OTHERS).

FIXING TO MILD STEEL MULLION

SECTION 2/S01 PLAN

SCALE = 1:2

GUIDE SUPPORTED BY MILD STEEL MULLION FRAME FOR A MAXIMUM OPENING WIDTH OF 3040mm IN REGION C TC2.5 AND UP TO A MAXIMUM DESIGN WIND PRESSURE RATING AS STIPULATED IN THE DESIGN CRITERIA.

NOTE:

- FIXINGS INTO STRUCTURAL STEEL ABUTMENTS HAVE BEEN DESIGNED USING TECHNICAL DATA PROVIDED BY BUILDEX FASTENERS.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL®4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.

Product Name

B&D SERIES 1 ROLL-A-DOOR (V2)

Product Description

WINDLOCKED ROLLER DOOR

Manufacturer's Details

B&D AUSTRALIA PTY LTD

34-36 MARIGOLD STREET, REVESBY NSW 2212 PH: 136 263

Design Criteria

- REGION C
- TERRAIN CATEGORY 2.5
- DOOR HEIGHT 3.0m MAX.
- BUILDING IMPORTANCE LEVEL 2
- REGION WINDSPEED VR = 66m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  INWARD RATING = 3.2kPa
  OUTWARD RATING = 3.4kPa
- THE ABOVE WIND RATINGS APPLY TO A MAXIMUM ALLOWABLE OPENING WIDTH OF 3040mm.
- DESIGNERS SHALL TAKE INTO ACCOUNT HIGH LOCAL PRESSURE AREAS WHEN VERIFYING THE DOOR ULTIMATE DESIGN WIND PRESSURE LOADINGS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS PART 2:WIND ACTIONS.
- AS/NZS 4505:2012 GARAGE DOORS & OTHER LARGE ACCESS DOORS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0:GENERAL PRINCIPLES.
- AS 4100:2020 STEEL STRUCTURES
- AS 3700-2018 MASONRY STRUCTURES
- AS/NZS 4600: 2018 COLD FORMED STRUCTURES
- AS/NZS 1664.1:1997 ALUMINUM STRUCTURES PART1:LIMIT STATE DESIGN
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 3600: 2018 CONCRETE STRUCTURES.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 UNLESS NOTED OTHERWISE AS SPECIFIED IN TABLE 1 (ON DRAWING S04).
- 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 SHALL BE ADOPTED IF NEEDED PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (ie. CORNERS OF BUILDINGS), PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: **M/332/01 - 05** DRAWING No. S03

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS1316 DATED 8th DECEMBER 2023 (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- PRINCIPLES OF MECHANICS.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) INSTALLATION GUIDELINES.

Checking Engineer

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 30/04/2025
Signature:

Must be an **Australian** registered **s**tructural engineer

Certifying Engineer

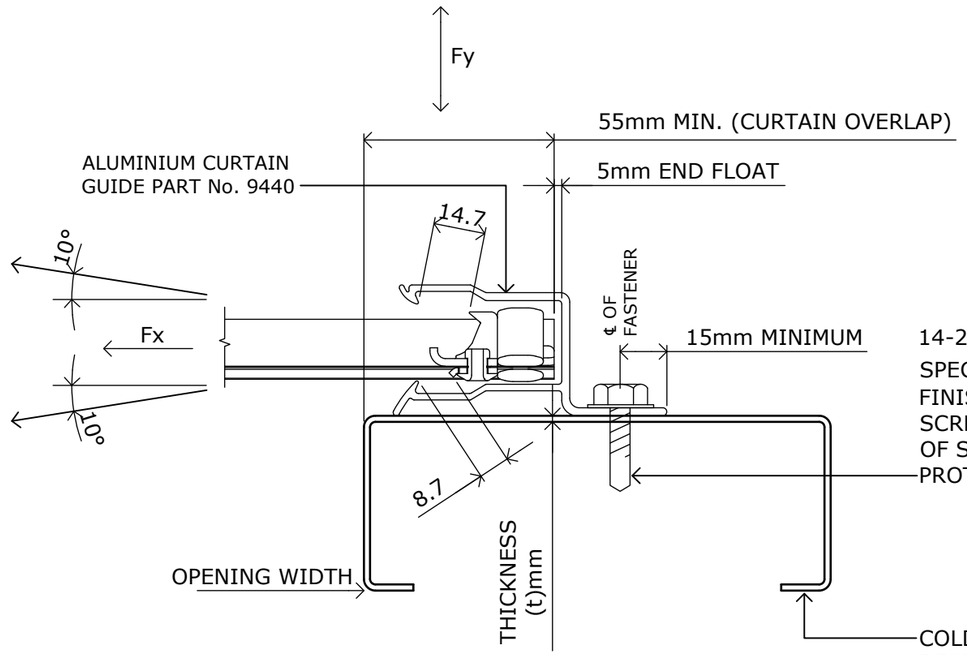
Name: FOCUS BUILDING APPROVALS P/L
NT Registration Number: 255591ES
Date: 30/04/2025
Signature:

Must be a registered structural engineer in the **Northern Territory**

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 05/06/2025 Expiry Date: 04/06/2030



14-20 HEX HEAD TEK SCREWS AT CENTRES AS SPECIFIED IN TABLE 1. (CLIMASEAL®4 COATING FINISH OR EQUIVALENT U.N.O.). LENGTH OF SCREWS TO BE DETERMINED ON SITE. LENGTH OF SCREWS TO HAVE AT LEAST 3 THREADS PROTRUDING PAST METAL FACE EDGE.

COLD FORMED STEEL FRAME ABUTMENT POST TO BE DESIGNED BY OTHERS. POST THICKNESS AND GRADE IS AS SPECIFIED IN TABLE 1. ALL STEEL SURFACES IN CONTACT WITH THE ALUMINUM GUIDE ARE TO BE APPROPRIATELY PAINTED TO AVOID THE ONSET OF CORROSION (SPECIFICATION BY OTHERS).

FIXING TO COLD FORMED MULLIONS

SECTION 2/S01 **PLAN**
SCALE = 1:2

GUIDE SUPPORTED BY COLD FORMED STEEL MULLION FRAME FOR A MAXIMUM OPENING WIDTH OF 3040mm IN REGION C TC2.5 AND UP TO A MAXIMUM DESIGN WIND PRESSURE RATING AS STIPULATED IN THE DESIGN CRITERIA.

NOTE:
- FIXINGS INTO COLD FORMED STEEL ABUTMENTS HAVE BEEN DESIGNED USING TECHNICAL DATA PROVIDED BY BUILDEX FASTENERS.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL®4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.

TABLE 1

FASTENING SPECIFICATIONS INTO COLD FORMED STEEL ABUTMENT SUPPORTS COMPLYING WITH AS 1397-2011

THICKNESS (t)mm	GRADE	YIELD STRENGTH	TENSILE STRENGTH	SPACING (mm)
1mm	G550	550 MPa	550 MPa	100mm
1.2mm	G500	500 MPa	520 MPa	125mm
1.5mm	G450	450 MPa	480 MPa	150mm
1.9mm	G450	450 MPa	480 MPa	150mm

Product Name

B&D SERIES 1 ROLL-A-DOOR (V2)

Product Description

WINDLOCKED ROLLER DOOR

Manufacturer's Details

B&D AUSTRALIA PTY LTD
34-36 MARIGOLD STREET, REVESBY NSW 2212 PH: 136 263

Design Criteria

- REGION C
- TERRAIN CATEGORY 2.5
- DOOR HEIGHT 3.0m MAX.
- BUILDING IMPORTANCE LEVEL 2
- REGION WINDSPEED VR = 66m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  INWARD RATING = 3.2kPa
  OUTWARD RATING = 3.4kPa
- THE ABOVE WIND RATINGS APPLY TO A MAXIMUM ALLOWABLE OPENING WIDTH OF 3040mm.
- DESIGNERS SHALL TAKE INTO ACCOUNT HIGH LOCAL PRESSURE AREAS WHEN VERIFYING THE DOOR ULTIMATE DESIGN WIND PRESSURE LOADINGS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS PART 2:WIND ACTIONS.
- AS/NZS 4505:2012 GARAGE DOORS & OTHER LARGE ACCESS DOORS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0:GENERAL PRINCIPLES.
- AS 4100:2020 STEEL STRUCTURES
- AS 3700-2018 MASONRY STRUCTURES
- AS/NZS 4600: 2018 COLD FORMED STRUCTURES
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- AS 3600: 2018 CONCRETE STRUCTURES.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 UNLESS NOTED OTHERWISE AS SPECIFIED IN TABLE 1 (ON DRAWING S04).
- 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.
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- THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
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Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: **M/332/01 - 05** DRAWING No. S04

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS1316 DATED 8th DECEMBER 2023 (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- PRINCIPLES OF MECHANICS.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) INSTALLATION GUIDELINES.

Checking Engineer

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 30/04/2025
Signature:

Must be an **Australian** registered **s**tructural engineer

Certifying Engineer

Name: FOCUS BUILDING APPROVALS P/L
NT Registration Number: 255591ES
Date: 30/04/2025
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Must be a registered structural engineer in the **Northern Territory**

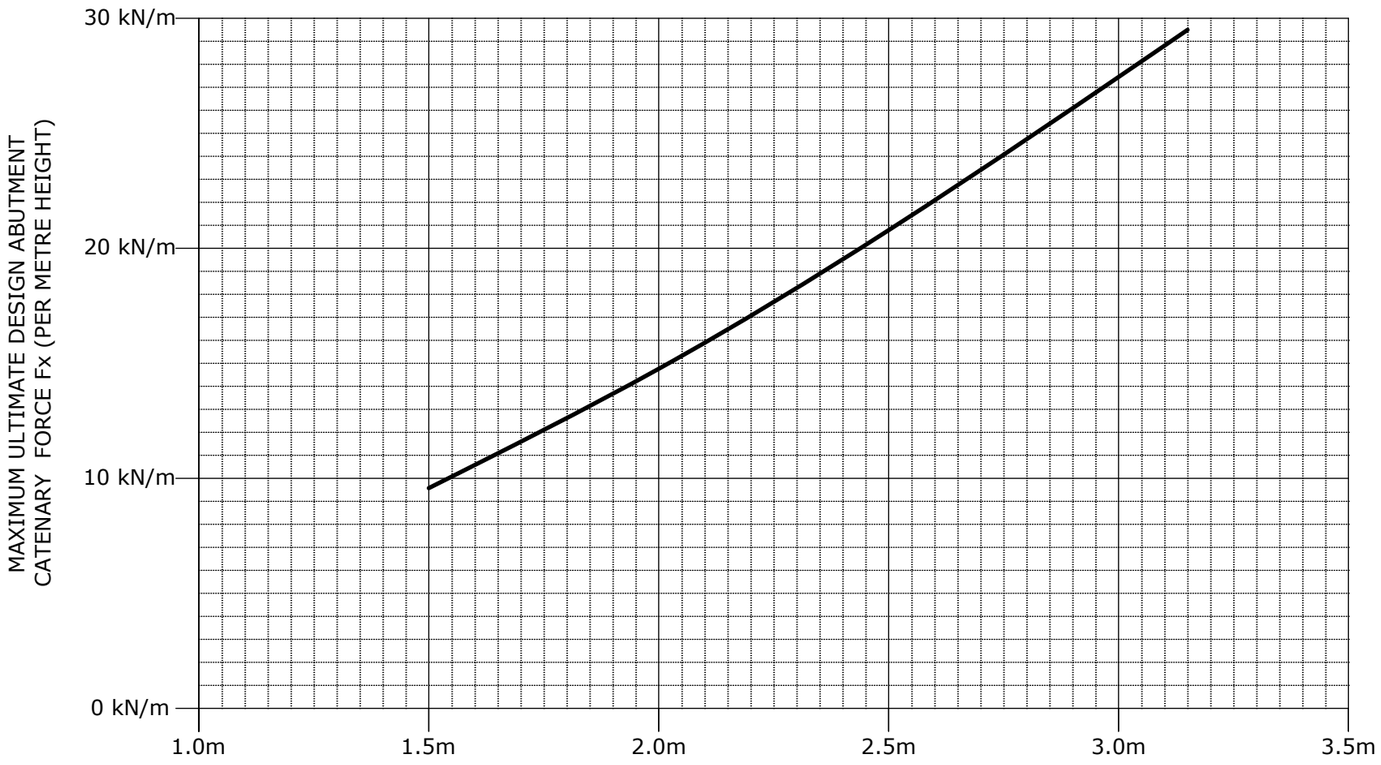
Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 05/06/2025 Expiry Date: 04/06/2030

NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



CURTAIN WIDTH (SPAN) (L)

NOTE: CURTAIN WIDTH = OPENING WIDTH + CURTAIN OVERLAPS

MAXIMUM ULTIMATE DESIGN ABUTMENT CATENARY FORCE Fx (PER METRE HEIGHT) FOR VARIOUS SPANS IN REGION C, TC2.5 AND UP TO A MAXIMUM DESIGN WIND PRESSURE RATING AS STIPULATED IN THE DESIGN CRITERIA

NOTE 1: $Fy = \frac{WL}{2}$

WHERE Fy = MAXIMUM OUT OF PLANE ULTIMATE DESIGN ABUTMENT FORCE (PER METRE HEIGHT)
W = ULTIMATE DESIGN WIND PRESSURE (kPa)
L = CURTAIN WIDTH (SPAN) (m)

Product Name

B&D SERIES 1 ROLL-A-DOOR (V2)

Product Description

WINDLOCKED ROLLER DOOR

Manufacturer's Details

B&D AUSTRALIA PTY LTD
34-36 MARIGOLD STREET, REVESBY NSW 2212 PH: 136 263

Design Criteria

- REGION C
- TERRAIN CATEGORY 2.5
- DOOR HEIGHT 3.0m MAX.
- BUILDING IMPORTANCE LEVEL 2
- REGION WINDSPEED VR = 66m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  INWARD RATING = 3.2kPa
  OUTWARD RATING = 3.4kPa
- THE ABOVE WIND RATINGS APPLY TO A MAXIMUM ALLOWABLE OPENING WIDTH OF 3040mm.
- DESIGNERS SHALL TAKE INTO ACCOUNT HIGH LOCAL PRESSURE AREAS WHEN VERIFYING THE DOOR ULTIMATE DESIGN WIND PRESSURE LOADINGS.
- AS/NZS 1170.2:2021 STRUCTURAL DESIGN ACTIONS PART 2:WIND ACTIONS.
- AS/NZS 4505:2012 GARAGE DOORS & OTHER LARGE ACCESS DOORS.
- AS/NZS 1170.0:2002 STRUCTURAL DESIGN ACTIONS - PART 0:GENERAL PRINCIPLES.
- AS 4100:2020 STEEL STRUCTURES
- AS 3700-2018 MASONRY STRUCTURES
- AS/NZS 4600: 2018 COLD FORMED STRUCTURES
- AS/NZS 1664.1:1997 ALUMINUM STRUCTURES PART1:LIMIT STATE DESIGN
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 3600: 2018 CONCRETE STRUCTURES.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 UNLESS NOTED OTHERWISE AS SPECIFIED IN TABLE 1 (ON DRAWING S04).
- 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 SHALL BE ADOPTED IF NEEDED PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- THE BUILDING DESIGN ENGINEER IS TO ENSURE THAT THE SITE SPECIFIC DESIGN WIND LOADINGS DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.
- DOORS MAY BE POSITIONED AT ANY LOCATION ALONG THE BUILDING ENVELOPE INCLUDING ALL LOCAL PRESSURE ZONES (ie. CORNERS OF BUILDINGS), PROVIDED THE CALCULATED ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE WIND PRESSURE RATINGS GIVEN IN THE DESIGN CRITERIA.

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: **M/332/01-05** DRAWING No. S05

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS1316 DATED 8th DECEMBER 2023 (CYCLONE TESTING STATION, SCHOOL OF ENGINEERING AND PHYSICAL SCIENCES, JAMES COOK UNIVERSITY).
- PRINCIPLES OF MECHANICS.
- ALL DOOR COMPONENTS TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) MANUFACTURING.
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D SERIES 1 ROLL-A-DOOR (V2) INSTALLATION GUIDELINES.

Checking Engineer

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 30/04/2025
Signature:

Must be an **Australian** registered **s**tructural engineer

Certifying Engineer

Name: FOCUS BUILDING APPROVALS P/L
NT Registration Number: 255591ES
Date: 30/04/2025
Signature:

Must be a registered structural engineer in the **Northern Territory**

Chairperson Signature:

Chairperson Name: Elisha Harris

Date of Approval: 05/06/2025 Expiry Date: 04/06/2030