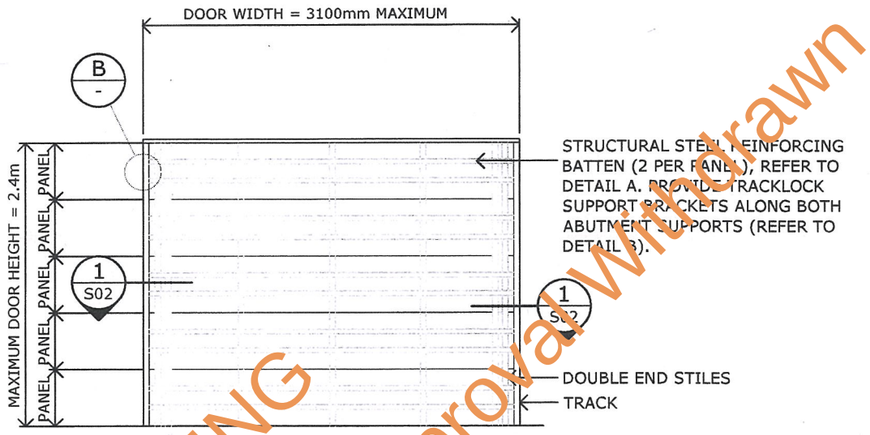
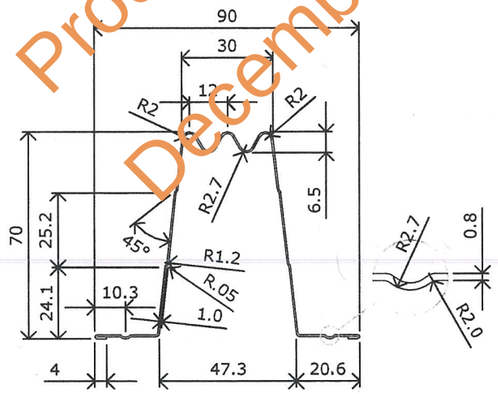
IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENTS P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.



WINDPANEL TRACKLOCK DOOR ELEVATION - TYPICAL

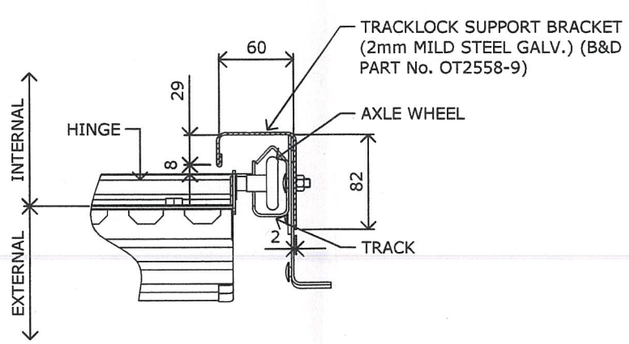
1:50



DETAIL A

1:2

STRUCTURAL STEEL REINFORCING BATTEN - CROSS SECTION - ELEVATION (TYPICAL)
MATERIAL: 0.7mm G550 GALVABOND



DETAIL B

1:5

TRACKLOCK SUPPORT BRACKET - PART PLAN (CROSS SECTION)

Notes covering basis of DTC (Relevant test reports etc)

- REPORT No. TS917 DATED 8th NOVEMBER 2013 (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 WINDPANEL TRACKLOCK MANUFACTURING .
- DOOR INSTALLATION TO BE IN ACCORDANCE WITH STANDARD B&D WINDPANEL TRACKLOCK INSTALLATION GUIDELINES.
- BUILDEX FASTENERS - TECHNICAL SPECIFICATION.
- RAMSET - SPECIFIERS RESOURCE BOOK.

**Design Engineers Certification

Name: JAMES ELLIS
Registration Number: 47429ES
Date: 22/8/2014
Signature:

**registered as a structural engineer in Australia

**Certifying Engineers Certification

Name: HEINER STRUCTURAL ENGINEERING CONSULTANTS
NT Registration Number: 52229ES
Date: 04/09/2014
Signature:

**registered as a structural engineer in Northern Territory

Product Name

B&D WINDPANEL TRACKLOCK

Product Description

REINFORCED SECTIONAL DOOR WITH TRACKLOCK SYSTEM

Manufacturer's Name

B&D AUSTRALIA PTY LTD

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

Design Criteria

- REGION C
- TERRAIN CATEGORY 2
- DOOR HEIGHT 2.4m MAX.
- BUILDING IMPORTANCE = LEVEL 2
- REGION WINDSPEED VR = 69.3m/s
- DOORS ARE RATED UP TO AN ULTIMATE DESIGN WIND PRESSURE OF:
  1. INWARD = 2.92 kPa
  2. OUTWARD = 3.37 kPa

  FOR A MAXIMUM DOOR WIDTH OF 3100mm.
- AS/NZS 1170.2:2011 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 4100:1998 STEEL STRUCTURES
- AS 3700-2001 MASONRY STRUCTURES
- AS/NZS 4600: 2005 COLD FORMED STRUCTURES
- AS/NZS 1170.1:2002 STRUCTURAL DESIGN ACTIONS - PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- (REFER ALSO TO NOTES COVERING BASIS OF DRAWINGS & LIMITATIONS)

Limitations

- STRUCTURAL STEEL ABUTMENT POSTS TO BE 2.4mm (MIN.) IN THICKNESS WITH A MINIMUM STRESS GRADE OF G250 U.N.O. (REFER TO SECTION 1 ON DRAWING S02).
- 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 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 SPECIFIED 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 SPECIFIED 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 SITE SPECIFIC ULTIMATE DESIGN WIND PRESSURES DO NOT EXCEED THE ULTIMATE DESIGN WIND PRESSURE RATINGS SPECIFIED IN THE DESIGN CRITERIA.

Accepted for Inclusion

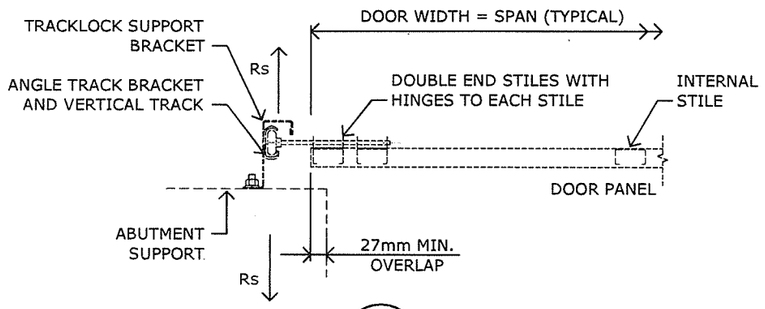
DTCM ref: m/424/01 DRAWING No. S01

Chairman's Signature:

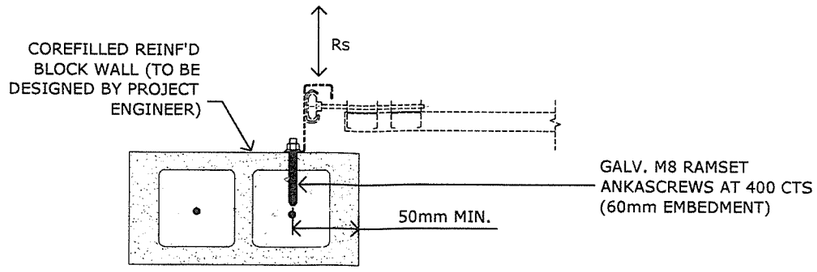
Chairman's Name: STEVEN J EHRLICH

Date of Approval: 4-12-14 Expiry Date: 4-12-19

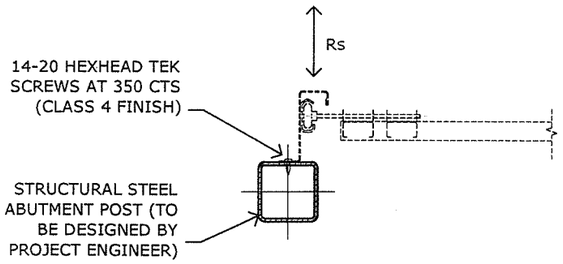
IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENTS P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.



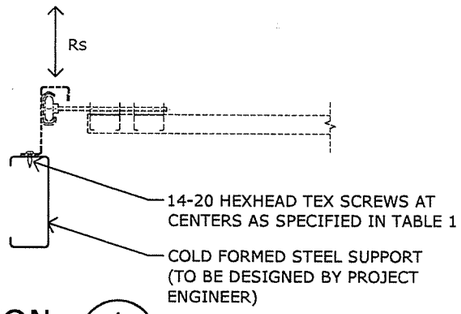
SECTION 1 / S01
1:10
PLAN OF END SUPPORT - GENERAL DETAIL



SECTION 1 / S01
1:10
PLAN OF TRACK FIXING TO REINFORCED COREFILLED BLOCKWORK ABUTMENT SUPPORTS



SECTION 1 / S01
1:10
PLAN OF TRACK FIXING TO STEEL ABUTMENT SUPPORT POST



SECTION 1 / S01
1:10
PLAN OF TRACK FIXING TO COLD FORMED STEEL ABUTMENT SUPPORTS

TABLE 1

FASTENING SPECIFICATIONS ONTO COLD FORMED STEEL ABUTMENTS SUPPORTS COMPLYING WITH AS 1397-1993

MATERIAL THICKNESS (t)mm	GRADE	YIELD STRENGTH	TENSILE STRENGTH	SPACING (mm)
1mm	G550	550 MPa	550 MPa	250mm
1.2mm	G500	500 MPa	520 MPa	300mm
1.5mm	G450	450 MPa	480 MPa	350mm
1.9mm	G450	450 MPa	480 MPa	400mm

Product Name

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Accepted for Inclusion

DTCM ref: m/424/02 DRAWING No. S02

Chairman's Signature:

Chairman's Name: STEVEN J. EHRLICH

Date of Approval: 4-12-14 Expiry Date: 4-12-19

Notes covering basis of DTC (Relevant test reports etc)

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