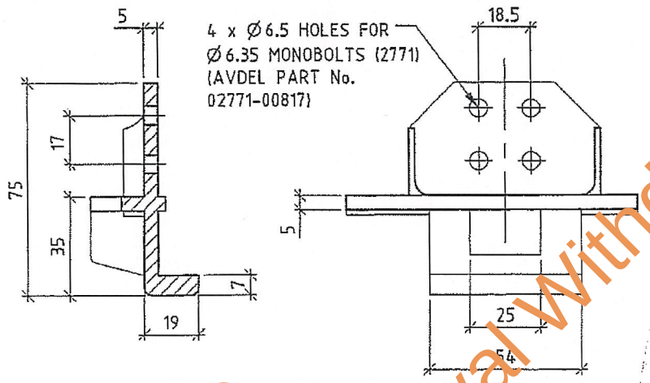
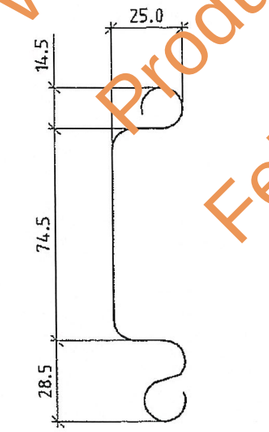


ELEVATION ON WIND LOCK

CAST STEEL, ZMP.

SCALE 1:2

DOOR MATERIAL TABLE				
DOOR WIDTH (mm)	WIND LOCK SPACING	END GAP (mm)	ULTIMATE DESIGN RESISTANCE (kPa)	ULTIMATE REACTIONS (kN/m)
4000	EVERY 4th SLAT	5	3.0	X=29.2 Y=6.0
5000	EVERY 2nd SLAT	14	3.0	X=33.9 Y=8.25
7000	EVERY 2nd SLAT	18	3.0	X=40.3 Y=9.2
8000	EVERY 2nd SLAT	40	3.0	X=44.1 Y=12.2

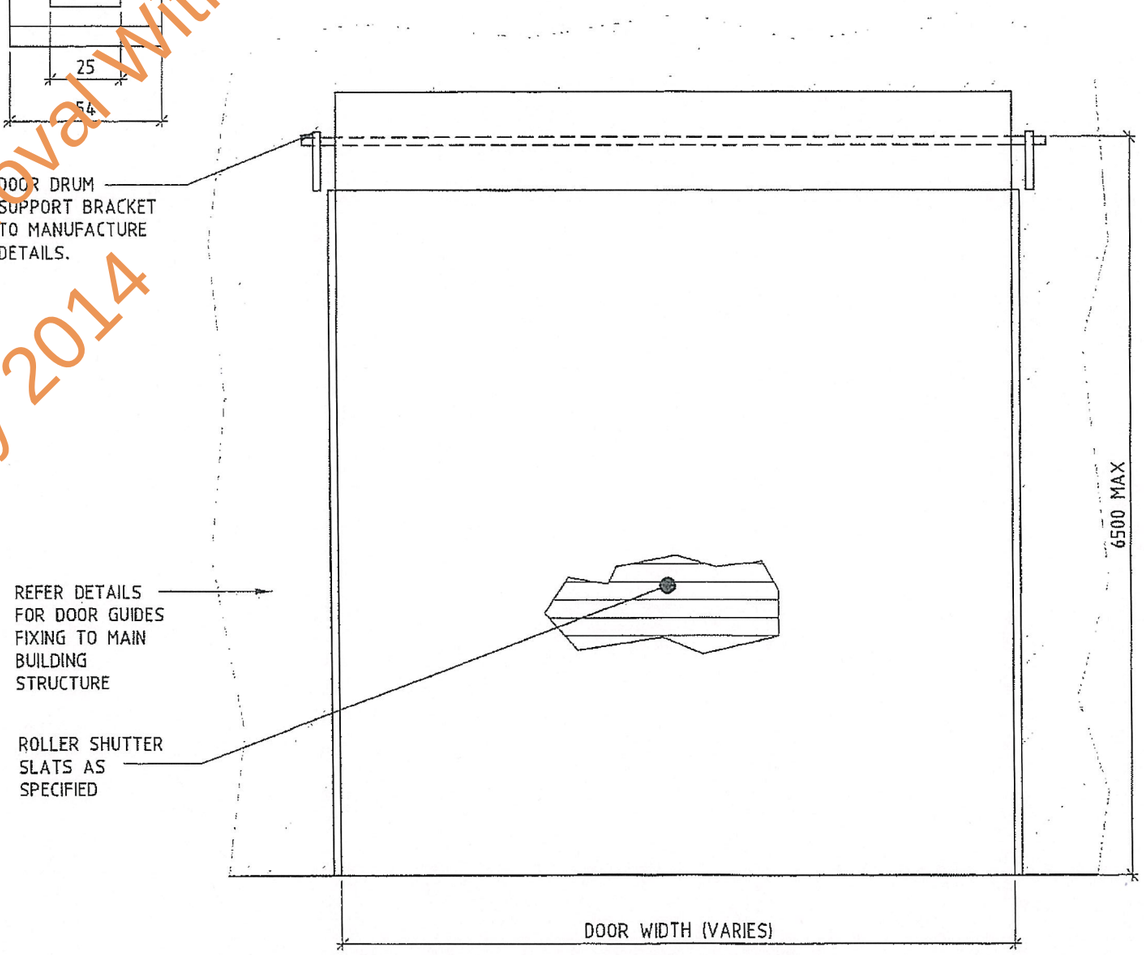


TYPICAL ROLLER DOOR SLAT

SCALE 1:2

NOTES:-

1. APPROXIMATE COVER WIDTH TO SLAT 100mm.
2. SLAT SHALL BE COLD ROLLED FROM 1mm BMT STEEL STRIP GRADE 250



TYPICAL ROLLER DOOR ELEVATION (INSIDE VIEW)

SCALE 1:50

Product name
ROLLER SHUTTER DOORS
WITH WIND LOCKS

Product Description
ROLLER SHUTTER DOORS
WITH WIND LOCKS

Manufacturer's Name
MIRAGE INDUSTRIES PTY LTD
PH (07) 37176666

Design Criteria

1. ULTIMATE DOOR DESIGN RESISTANCE 3.0 kPa.
2. ROLLER DOOR SUPPORT STRUCTURE TO BE DESIGNED BY MAIN BUILDING DESIGNER FOR LOADING INDICATED. SEPARATE SECTION 40 CERTIFICATE IS REQUIRED FOR MAIN BUILDING DESIGN.
3. SUITABILITY OF DOOR FOR ACTUAL SITE CONDITIONS TO BE MADE BY MAIN BUILDING DESIGN ENGINEER. (LIMITED TO 3.0kPa ULTIMATE DESIGN PRESSURE).

Limitations

1. 6500 MAX DOOR HEIGHT
2. 8000 MAX DOOR WIDTH
3. END GAPS MUST BE SET AS INDICATED IN TABLE.

Notes covering basis of DTC (Relevant test reports etc)
REFER TO NJA CONSULTING REPORT -
REFERENCE No. 09208-001-01

***Design Engineer's Certification**
Name : JOHN VAN DE HOEF
Registration Number : MIEAUST 826700 RPEQ 4733
Date : 4-11-09
Signature:
*registered as a structural engineer in Australia

****Certifying Engineer's Certification**
Name : DARREN McDONALD
NT Registration Number : 24619 ES
Date : 4-11-09
Signature:
**registered as a structural engineer in Northern Territory

Accepted for Inclusion

DTCM ref: M/416/04 SHEET 1 OF 2

Chairman's Signature:

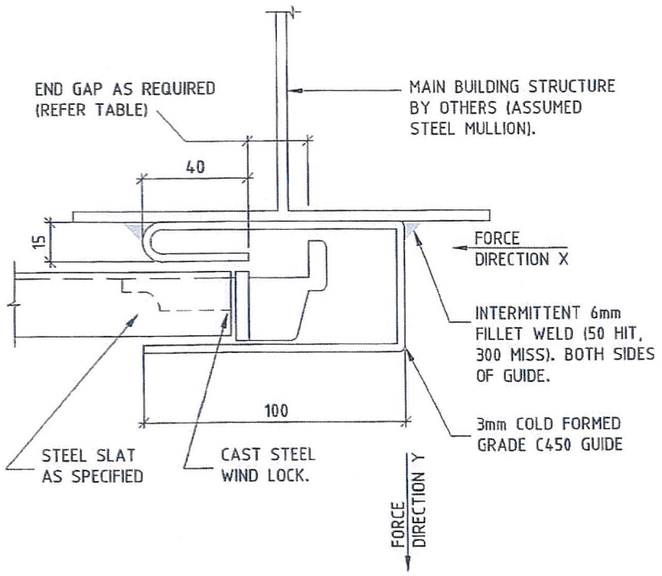
Chairman's Name: STEVEN EHRLICH

Date of Approval: 25/2/2010 Expiry Date: ~~24/2/2013~~

New Expiry Date: 24/2/14

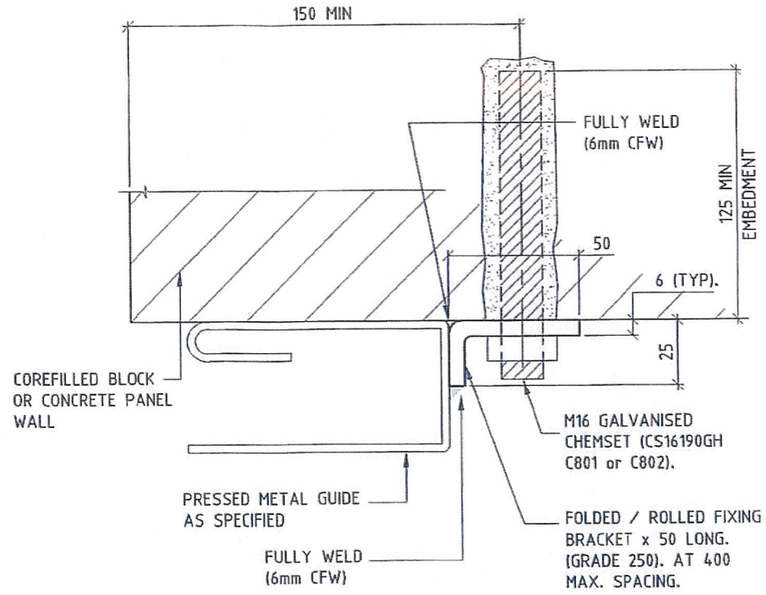
Signature:

~~New Expiry 24/08/2013~~



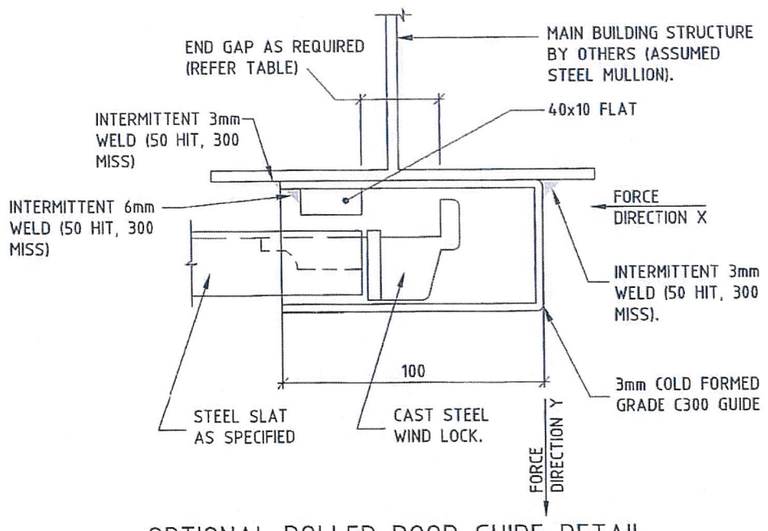
TYPICAL ROLLER DOOR GUIDE DETAIL

NTS



ROLLER DOOR GUIDE TO BUILDING FIXING

NTS - (FIXING TO BLOCKWORK OR CONCRETE)



OPTIONAL ROLLER DOOR GUIDE DETAIL

NTS

NOTES:-

1. FIXING OF ALTERNATIVE GUIDE TO CONCRETE OR MASONRY SHALL BE SIMILAR TO THAT SPECIFIED FOR "GUIDE TO BUILDING FIXING"

Notes covering basis of DTC (Relevant test reports etc)

REFER TO NJA CONSULTING REPORT -
REFERENCE No. 09208-001-02

THE MAXIMUM DOOR DESIGN RESISTANCE & APPLIED GUIDE FORCES HAVE BEEN CALCULATED USING TEST DATA & THEORETICAL ANALYSIS CARRIED OUT BY NJA CONSULTING:- AS REPORTED IN SUMMARY REPORT REF:- 09208-001-01.

***Design Engineer's Certification**

Name : JOHN VAN DE HOEF
Registration Number : MIEAUST 826700 RPEQ 4733
Date : 12-02-10
Signature:
*registered as a structural engineer in Australia

****Certifying Engineer's Certification**

Name : DARREN McDONALD
NT Registration Number : 24619 ES
Date : 12-02-10
Signature:
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Product name
ROLLER SHUTTER DOORS
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Product Description
ROLLER SHUTTER DOORS
WITH WIND LOCKS

Manufacturer's Name
MIRAGE INDUSTRIES PTY LTD
PH (07) 37176666

Design Criteria

1. ULTIMATE DOOR DESIGN RESISTANCE 3.0 kPa.
2. ROLLER DOOR SUPPORT STRUCTURE TO BE DESIGNED BY MAIN BUILDING DESIGNER FOR LOADING INDICATED. SEPARATE SECTION 40 CERTIFICATE IS REQUIRED FOR MAIN BUILDING DESIGN.
3. SUITABILITY OF DOOR FOR ACTUAL SITE CONDITIONS TO BE MADE BY MAIN BUILDING DESIGN ENGINEER. (LIMITED TO 3.0kPa ULTIMATE DESIGN PRESSURE).
4. THE INSTALLED ROLLER DOOR IMPOSES SIGNIFICANT FORCES ON THE MAIN BUILDING STRUCTURE. THE IMMEDIATE SUPPORTING STRUCTURE MUST BE DESIGNED TO RESIST THE LOADINGS APPLIED AT EACH END OF THE DOOR AS INDICATED IN THE TABLE. A SEPARATE SECTION 40 CERTIFICATE SHALL BE OBTAINED COVERING THE IMMEDIATE SUPPORTING STRUCTURE.
5. THE RATED DESIGN WIND LOAD RESISTANCE FOR EACH DOOR WIDTH IS AS INDICATED IN THE TABLE. THE STRUCTURAL ENGINEER INVOLVED WITH THE MAIN BUILDING DESIGN SHALL VERIFY THAT THE STATED DESIGN RESISTANCE EXCEEDS THE SITE SPECIFIC DESIGN WIND LOADING.
6. THE DOORS HAVE NOT BEEN TESTED FOR DEBRIS IMPACT AS INDICATED IN AS1170.2. THE BUILDING SHALL BE DESIGNED ON THE BASIS THAT THE DOOR CAN BECOME A DOMINANT OPENING. INTERNAL PRESSURES FOR THE MAIN BUILDING DESIGN SHALL BE SELECTED FROM TABLE 5.1(B) OF AS1170.2.

Limitations

1. 6500 MAX DOOR HEIGHT
2. 8000 MAX DOOR WIDTH
3. END GAPS MUST BE SET AS INDICATED IN TABLE.
4. IT IS CRITICAL THAT THE ROLLER DOOR WIND LOCKS BE SET WITH THE END GAP INDICATED IN THE TABLE. THE SLAT & WINDLOCK SHALL BE ACCURATELY INSTALLED SO THAT THE SPECIFIED END GAP IS ACHIEVED.
5. ALL WELDED CONNECTIONS SHALL BE COLD GALVANISED.
6. THE ROLLER DOOR INSTALLATION SHALL BE TREATED AS REQUIRED IN ORDER TO COMPLY WITH THE DURABILITY REQUIREMENTS OF THE BCA FOR THE ACTUAL SITE EXPOSURE CONDITIONS.
7. PERSONNEL DOORS ARE NOT PERMITTED WITHIN THE ROLLER SHUTTER.

Accepted for Inclusion

DTCM ref: M/416/02 SHEET 2 OF 2

Chairman's Signature:

Chairman's Name: STEVEN EHRLICH

Date of Approval: 25/2/2010 Expiry Date: ~~24/2/2013~~

New Expiry Date: 24/2/14
Signature

~~New Expiry 24/08/2013~~