A.C.N. 086 451 907

ASSA ABLOY AUSTRALIA

TEST REPORT 2012059-1

ForceField Hinged Security Screen Door Sample Number – 145984-1

FOR

Prowler Proof



NATA Accredited Laborator Number: 14426

Accredited for compliance with ISO/IEC 17025

Date of issue: 12/09/2012

ENG053/4

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ASSA ABLOY Australia

	Test Repo Hinged Security So		
Test Report Number:	2012059-1	Project Number:	10541
Manufactured By:	Prowler Proof	Date of Submission:	11/09/2012
Tested By:	A Sterrenberg and C Horton	Date:	11/09/2012
Certified By:	A Sterrenberg	Date:	11/09/2012
Witnessed By:	Michael Henry	Date:	11/09/2012

Details of Test Door

Туре:	Hinged security screen door						
Make or Model:	ForceField						
Sample Number:	145984-1						
Gap Between Door	- Lock side:	3.16mm					
and Mounting Frame:	- Hinge side:	3.82mm					
Frame Size:	2040mm (H) x 870mm (W)						
Framing Material:	Pinus Radiata.						
Constructional Descr	ription of Test Se	curity Hinged Door:					
An aluminium hinged	d security screen	door containing woven stainless steel mesh infill					

Details of Test door Infill

Гуре and Fabrication Method: Manufacturer's Name / Part Number:		Woven stainless steel mesh
		Meshtec International – SS Mesh BK
Type 3 Mesh Infill (if applica	ble)	
Material Type and Grade:	0.8mm coated	316 stainless steel woven mesh – plain weave 11x11 strands per inch- powder black
2	-	
Mass per m ² (kg):		

Test Report Hinged Security Screen Door

Dynamic Impact Test - AS 5039 / 5041

Measurement Before Impact	: Test at Impact Point (datum reading): 10mm		
Test	Remarks	Pass	Fail
Impact One:	11mm Deflection from datum. Grille secure to frame.	1	-
Impact Two:	14mm Deflection from datum. Grille secure to frame.	1	-
Impact Three:	15mm Deflection from datum. Grille secure to frame.	~	-
Impact Four:	16mm Deflection from datum. Grille secure to frame.	~	-
Impact Five:	16mm Deflection from datum. Grille secure to frame.	1	-
150mm Diameter Probe test using R.M.F:		1	-

Jemmy Tests - AS 5039 / 5041

Location	Remarks	Pass	Fail	
Centre Locking Point:	196Nm at full rotation of lever. Locking point secure.	1	-	
Bottom Locking Point:	151Nm at full rotation of lever. Locking point secure.	1		
Top Locking Point:	308Nm at full rotation of lever. Locking point secure.	1	-	
Centre Hinge:	126Nm at full rotation of lever. Hinge point secure.	1	-	
Bottom Hinge	188Nm at full rotation of lever. Hinge point secure	1	-	
Top Hinge:	89Nm at full rotation of lever. Hinge point secure	1		

Infill Pull Tests - AS 5039/ 5041

Location	A 450mm Maximum	B 150mm Maximum	C 100x100mm Maximum	D	E	Pass	Fail
Centre Locking style – Type 3 infill (1.5kN):		No gap	arose to allow	for pull t	est - Pass		

A - Maximum size of any gap between grille and grille frame or grille frame and door frame under load (dynamic).

B - Maximum size of any gap between grille and grille frame or grille frame and door frame after load (static).

C - The size of any gap caused by the infill breaking away from the security grille framing.

D - Whether the grille remained in a fixed position.

E - Whether the locking device maintained the door in a locked position.

Force Probe Test (Type 2 infill material only) N/A

verall Test emarks:	Pass
indirity.	Impact test -Pass.
	Jemmy tests – Pass
	Pull tests – No gap arose to allow for pull test - Pass

Authorised Signature	Print Name A. Sterrenberg	Date
	Accredited for compliance with ISO/IEC 17025	
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Identification Details for Security Hinged Door Submitted for Type Testing in Accordance to AS 5039/5041 (Informative)

General

Model Number / Name:	ForceField
Sample Number:	145984-1
Manufactured By:	Gershwin Pty Ltd trading as Prowler Proof
Date of Submission:	11/09/12
Description:	Hinged security screen door
(To show additional specif	DRAWINGS: COMPLETE ATTACHED SHEETS ic details of door construction such as internal stiffening, hinging, etc., attach further sheets as necessary)

Framing Section

Туре:	Extruded aluminium	1.	is the second second			
Manufacturer's- Attached Dimensional Drawing- Material Type and Grade:		Name:	Prowler Proof	Section Number:	FFD	
		Number:	-	Issue:		
		Aluminium 6060-T5			-	
Surface Fi	nish:	Powder coated				
Mass per M	Metre Length (kg):	-				
Mounting Frame Material:		See attached CAD drawings				
		(A	ttach drawings if necessary	y)		

Corner Stake - N/A Welded corners

Locks

Type: (Description of mechanism including cylinder)	Lockwood 8	3654 triple point security door w	ith Lockwood anti dril	l euro 5-pin cylinder
Manufacturer's-	Name:	Assa Abloy	Part Number:	8654
Construction Material-	Body:	Cast zinc	Striker:	Stainless steel
Number of Locking Points:	Three (3)			
Handle (furniture) Identification:	8654 Lock	furniture - Prowler Proof		
Means of Mounting:	As per Ma	nufacturer's instructions		
Mounting Location:	See attach	ed CAD drawings		

Infill

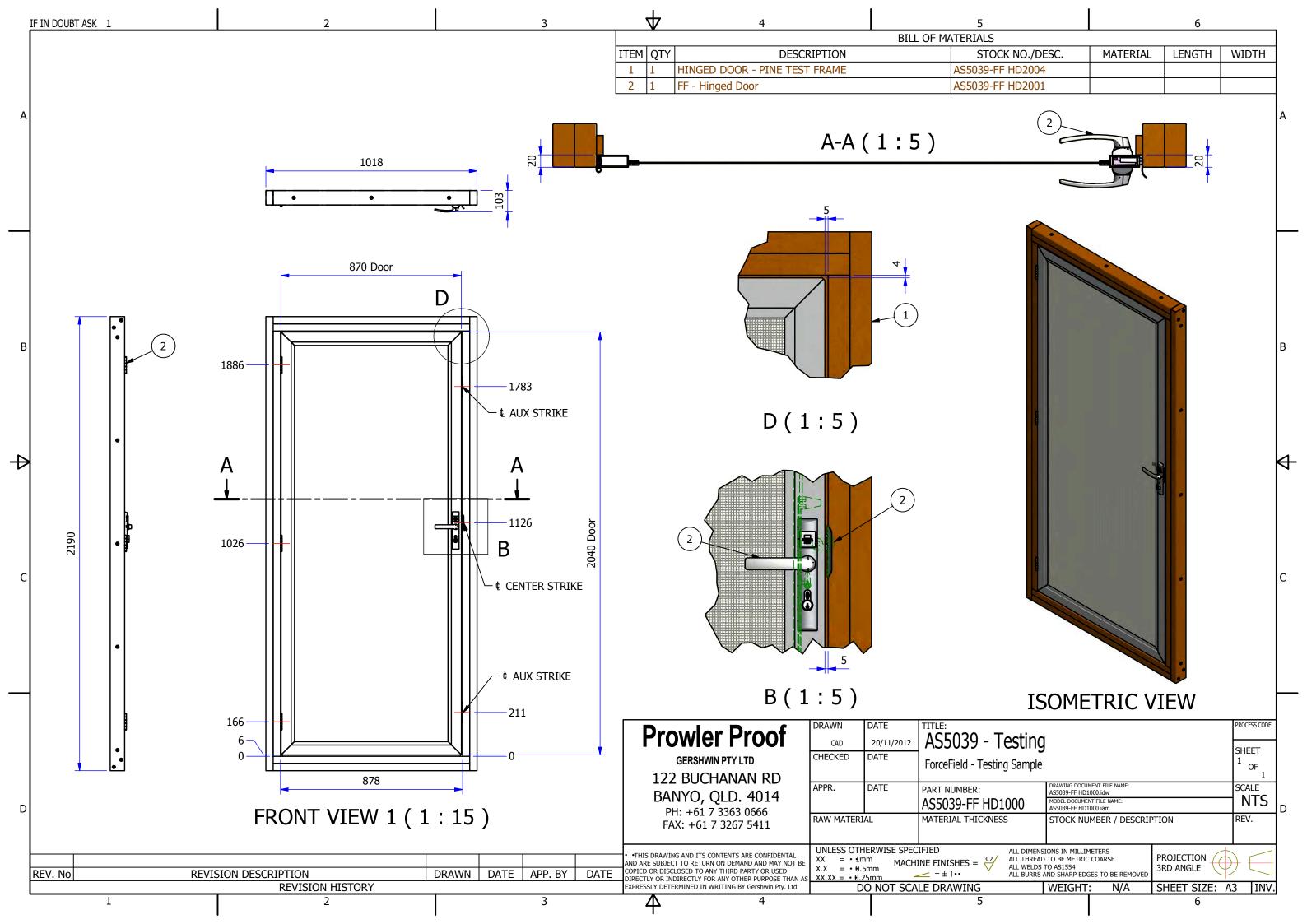
Type and Fabrication	on Method:	Woven stai	Woven stainless steel mesh							
Manufacturer's- Attached Dimensional Drawing-		Name:	Meshtec International			Part Number:	SS Mesh BK			
		Number: Refer		Refer attached shear test					Issue:	
Material Type and Grade:		0.8mm 316 stainless steel								
Surface Finish:		Powder coated								
Diameter of Type 3 Infill: (If applicable)		0.8mm								
Fastener Details:										
Type: Bonded -	Every contact	point		Par	t Number:	-				
Material Alum		St.	Steel		Monel		Steel	OTHER	1	
	(Attach dr	awings if neces	ssary)							

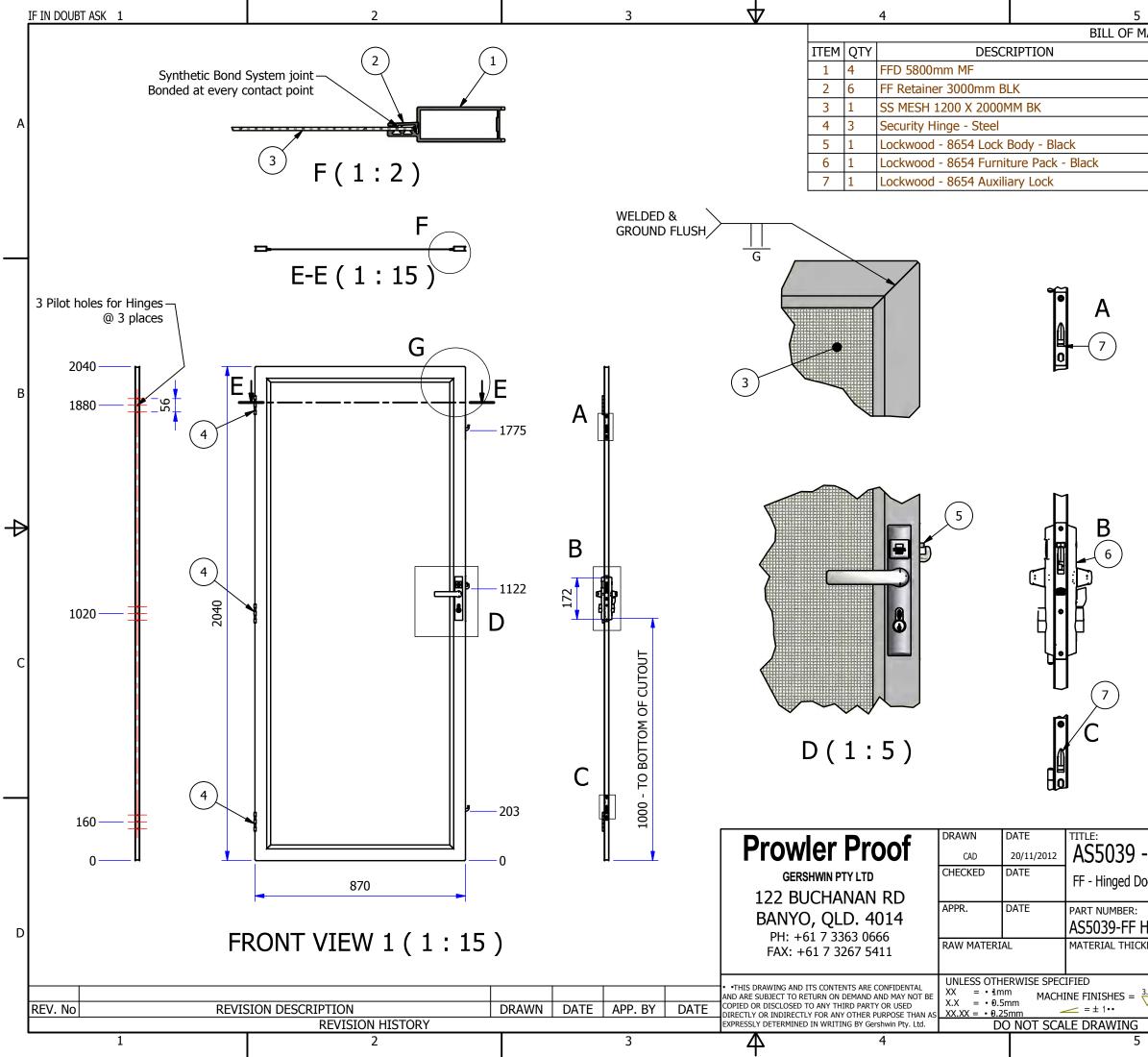
Hinges

Type: Whitco Se	ecurity Door I	Hinge Steel	Fixed P	in		Numbe	r Fitted:	Three (3)
Manufacturer's- Nan		Name:	Name: Assa Abloy			Part Number:		W831417
Attached Dimensional I	Drawing-	Number:	-				Issue:	-
Material Type and Grad	e-	Leaves:	Steel				Pin:	Steel
Surface Finish:			_					
Means of Securing:		Weld		Screw		Rivet	1	Other
	(If means	of securing is	s OTHER	R, submit full de	tails on a s	eparate sheet	t)	
Fastener Details:								
Type: 5-2 blind rivet				Part Nu	mber:			
Material	Alum	St.	Steel	✓ Mon	el	Steel		OTHER
Surface Finish:	Stainless st	teel						
Length and Diameter:	5-2							
Number Used and Loca	tion: Nine	(9) - see a	ttached					
(indicate on figure 1)				(Attach dra	awings if ne	cessary)		

Manufactured By:	Prowler Proof
Sample Number:	145984-1
Size of Door and Lo door	ocation of Locking Points, Hinges and Mid-Rail - Refer attached CAD Drawing ForceField - Hinged
Means of Securing door	Infill to Framing, Location of Welds / Fasteners- Refer attached CAD Drawing ForceField - Hinged

End





			6		_
MA	TERIALS				
	STOCK NO./DESC.	MATERIAL	LENGTH	WIDTH	
	100004	AI 6060 T5			
	100089	R-PVC			
	100026	SS, T316	1939.4	769.4	
	100050	Steel			Α
	102527	Generic			
	102526	Generic			
	102535	Generic			
					1

1

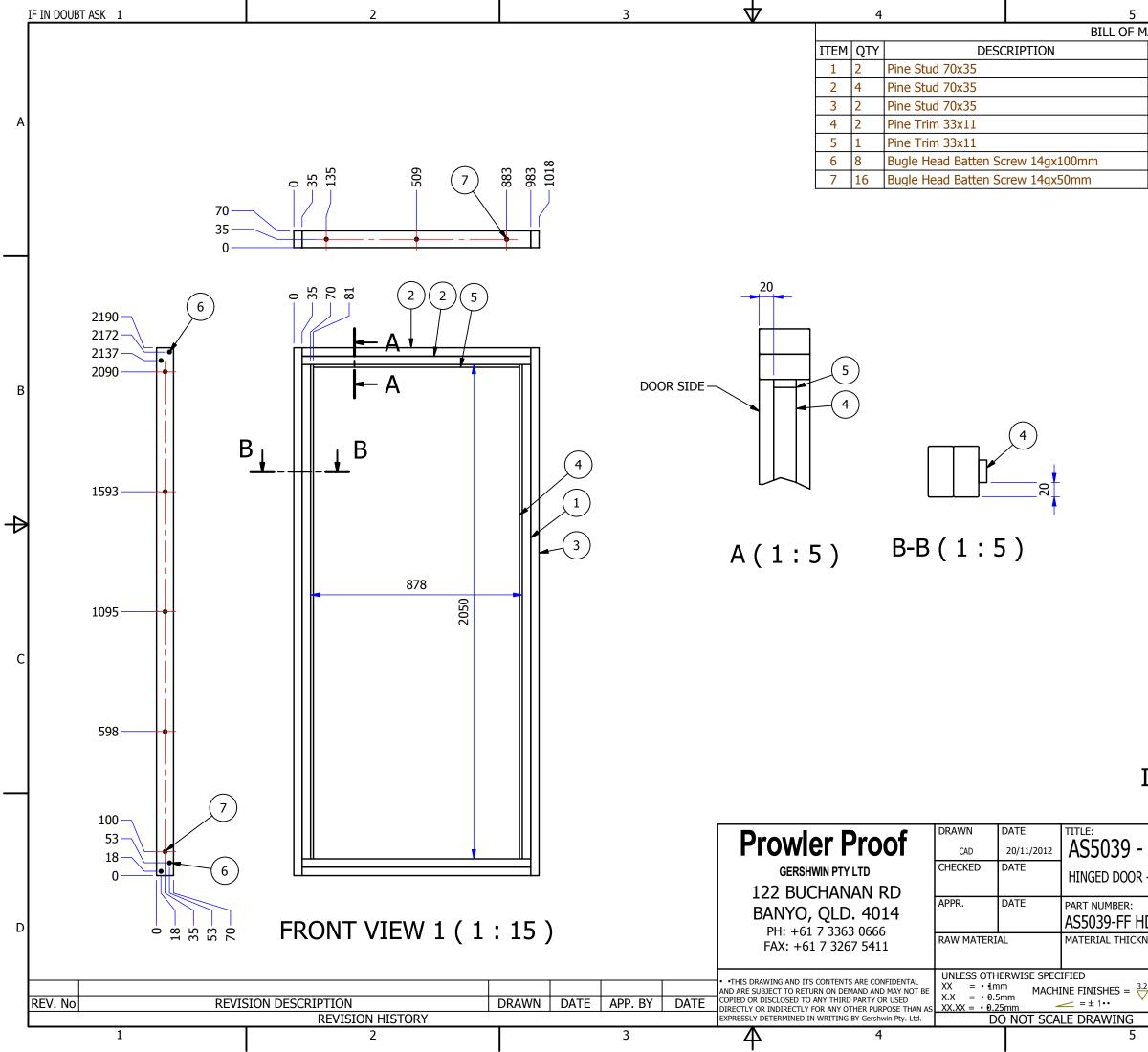


В

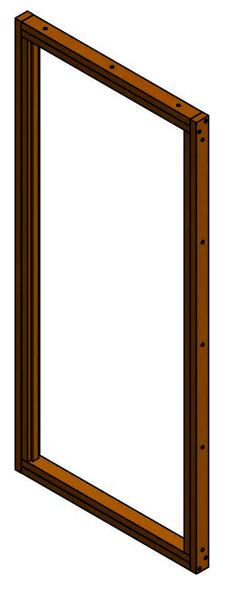
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ISOMETRIC VIEW

Tooting				PROCESS CODE:	
- Testing				SHEET 1 OF 1	
	DRAWING DOCUM AS5039-FF HD2			SCALE	
HD2001	MODEL DOCUMER AS5039-FF HD2			NTS	D
KNESS	STOCK NU AS5039-FF H	MBER / DESCRIF D2001	TION	REV.	
3.2 ALL THREAD ALL WELDS T			PROJECTION 3RD ANGLE		
	WEIGHT	: N/A	SHEET SIZE: A	3 INV.	
			6		-



			6		_
Μ	ATERIALS				
	STOCK NO./DESC.	MATERIAL	LENGTH	WIDTH	
		Pine	2050	35	
		Pine	948	35	
		Pine	2190	35	1
		Pine	2050	33	A
		Pine	856	33	
		Steel, Mild	100		
		Steel, Mild	50		
					1



R

K-

ISOMETRIC VIEW (1:15)

Tocting	1			PROCESS CODE:	
- Testing R - PINE TEST	FRAME			SHEET ¹ OF 1	
	DRAWING DOCUL AS5039-FF HD2	MENT FILE NAME: 004.idw		SCALE	
HD2004	MODEL DOCUMER AS5039-FF HD2			NTS	D
KNESS	STOCK NU AS5039-FF H	MBER / DESCRIF D2004	PTION	REV.	
3.2 ALL THREAD ALL WELDS			PROJECTION 3RD ANGLE		
	WEIGHT	: 18.36 kg	SHEET SIZE: A	.3 INV.	
			6		-



Test Certificate



Knife Shear Test.	Certificate No	lo. <u>11-032-KS</u> Page <u>1</u> of <u>1</u>			
Model Number/Name:	Fixed Window 11	mm			
Report/Sample Number:	KS11-030(0.8mm	KS11-030(0.8mm#316/ Gershwin) Meshtec International			
Manufactured By:	Meshtec Internatio				
Date of Test:	8-September-2011				
Test method AS 5041		Tick box if ok			
Pre-Test visual check					
to make sure regulation	ulator (2) seals are not broke	en			
force/ pressure a	pparatus (for two direction)				
Calibrated by:ACS		%Humidity =63 % (Less than 80%)			
Certificated No.: TH.AC	C./003-A-3	Temp.= 24.9 °C At time= 8.25 AM			
Expiry dates:25 Ma	iv 2012	(23± 5°C for force gauge)			
RESULTS					
	of completed Penetration (n	mm) New Blade used (Yes/No)			
est No 1	3.10 mm (1 line)	Yes			
	3.07 mm (1 line)				
est No 2		Yes			
Fest No 3	3.10 mm (1 line)	Yes			
	the standing sectors in	(1 line), Stroke No.2 wire penetration 3.07mm (1 line),			
20424 (C. 1937) 13	penetration 3.10 mm (1 line).	1995 - OM			
	ire penetration = $9.27 \text{ mm} (3)$				
= <u>±0.110</u> mm [(L		nan 150 mm after the third test. Uncertainty of test meth Completed penetration after the third test)< 150mm] NOTE: Cross out whichever does not apply.			
Jakkrit	<u>U.</u>	Wichian K.			
Name of Exa	miner	Approved By			
Signatory:	MURD T	Signatory:			
aboratory Accreditation	ed in accordance with the Scheme which has assess e with ISO 17025.	e conditions of accreditations granted by the Thai sed the measurement capability of the laboratory an in full except with the prior written approval of			

the Meshtec International Laboratory. • This report is certified only on the sample tested.

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Product Information

No	Item	Method/ Specification
1	Mesh	Stainless steel mesh
2	Wire specs	High tensile stainless steel
3	Diameter	0.8 ± 0.015 mm
4	Alloy	Grade 316
5	Мра	860-940 Mpa
6	Weave Type	Plain weave
7	Number of strands per inch / 25.4mms	11/10.5 per inch
8	Finish (Woven)	Wire Mesh (ISO9044/ASTM E2016-06)
9	Basic pre-treatment	Alkaline cleaning/Acid etching
10	Finish (powder coat) brand and type of powder	Interpon D610 (Akzo Nobel), Polyester
11	Colour	Ultra Black Low Sheen
12	Testing	AS3715-2002, AAMA2603-05, AAMA2605-05
13	Internal testing on wire and finish	See the internal testing (second page)
14	External testing to relevant architectural standards	Salt Spary : 10 000 Hrs (Akzo Nobel) Salt Spary : 10 000 Hrs (Akzo Nobel)
15	Knife shear test	AS5041-2003 Section 8.
16	Open Area Space Specification	42.5%



Internal Testing

Test Requirement

No	Test	Test Method	Specification
1.	Gloss at 60°	AAMA 2605-05 Section 7.2	Series 610 : 37+/-5
2.	Coating thickness	AS3715-2002 Section 2.5.3	Minimum coating thickness : 60 µm
3.	Impact Resistance	AAMA 2605-05 Section 7.5	No removal of film from substrate
4,	Indentation	AS3715-2002 Section 2.5.6	Buchholz > 80
5.	Adhesion	AAMA 2605-05 Section 7.4.1.1	No removal of film under the tape within or outside of the cross-hatched area or blistering anywhere.
6.	Bend Test	QUALICOAT Section 2.7	Bending around a 5 mm mandrel or an 8 mm mandre (Not show any sign of cracking or detachment)
7.	Polymerisation test	QUALICOAT Section 2.14	Cannot be scratched with a finger-nail.
8.	Resistance to boiling water	AAMA 2605-05 Section 7.4.1.3	No removal of film under the tape within or outside of the cross-hatched area or blistering anywhere.
9.	Color	AAMA 2605-05 Section 7.1	Color uniformity consistent with the color range
10.	Knife Shear Test	AS5041-2003 Section 8	Max 150 mms
12.	Tensile Test	ISO 682 1998,BS-EN 10002-1 2001	860-940 Mpa
13.	Chemical Composition	Alloy Testing	Determine alloy 316,304 etc.

