

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106 1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

C	lient :	ConstructAr Unit 1, 49 Li Eagle Farm	nesh Pty Ltd nks Avenue North QLD 4009			Test Number Issue Date Print Date	: : :	18-00343 2/07/2018 2/07/2018	3 3 3					
S	ample D	Description	Clients Ref : "Constructar Knitted mesh Colour : Red/Black Nominal Composition : HI Nominal Mass per Unit Area/I Nominal Thickness : Aj	mesh" DPE + FR Density : pprox. 1mm	170g/m2									
AS 1530.2-199		93	Methods for Fire Tests on Building Materials, Components and Structures. Part 2: Test for Flammability of Materials											
			Date Tested					28/06/2018						
			Flammability Index					9						
						Length		Width						
			Spread Factor			6		1						
			Heat Factor			3		2						
			Maximum height (d)											
			Mean			5.8		3.7						
			Coefficient of Variation			116.7		122.7	%					
			Heat (a)											
			Mean			12.2		6.5	°C.min					
			Coefficient of Variation			165.6		111.3	%					
			Number of Specimens Tested	t		9		9						
			Observation	Melting and	dripping									

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.



APPROVED SIGNATORY

AGING DIRECTOR

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AS 1530.2-1993 Methods for fire tests on building materials, components and structures

Part 2 Test for flammability of materials

This test applies to thin flexible materials that are sufficiently pliable to be inserted into the apparatus by hand without special softening treatment.

The test is used for products such as sarking (building papers), curtains, drapes and other vertically oriented thin flexible materials.

A sample of material (535mm x 75mm) is placed vertically in a test rig and ignited at the bottom using a small alcohol flame. The height to which the flame travels up the specimen is recorded. If the flame reaches the top of the specimen, then the time to reach the top is also recorded. In addition the rise in temperature of the gasses in a flue above the test rig is also recorded continuously during the test.

The flame height is used to calculate a Spread Factor (in the range 0-40), the time for the flame to reach the top of the specimen, if recorded, is used to calculate a Speed Factor (in the range 0-60) and the area under the temperature curve is used to calculate a Heat Factor (generally in the range 0-40). *The Flammability Index is* the sum of the Heat Factor plus the larger of the Spread Factor and the Speed Factor.

The Flammability Index is generally compared with the requirements given in the Building Code of Australia to see in which classes of building the product may be used. In addition some government authorities have specific requirements for such products as vertical drapes.

Kind Regards

Fiona McDonald Product Technologist

All testing services are conducted under our terms & conditions: <u>www.awtaproducttesting.com.au/index.php/about/terms-and-conditions</u>



Textiles · Building · Transport

AWTA Product Testing

191 Racecourse Rd, Flemington VIC 3031 Australia Tel: 03 9371 2411 Mob: 0401 960 934 Fax: 03 9371 2499

AWTA Product Testing | Agrifood Technology | AWTA | NZWTA

THE MARRON CONSULTANCY

ABN 96 276 451 253 4/168 Beecroft Road, Cheltenham, NSW 2119 Phone/Fax +61 2 9868 5351 — Mobile 0408 335 558 Email: crawd@bigpond.net.au

CERTIFICATE

Date: 2 May 2018

Client: ConstructAmesh Pty Ltd 1/49 Links Avenue North Eagle Farm, QLD 4009

Project: ConstructAmesh resistance to impacting objects

Reference: Test protocol by The Marron Consultancy — April 2018 Test Report from Mahaffey Associates Pty Ltd — April 2018

Requirement: ConstructAmesh is a mesh that is fixed by ties through eyelets to the scaffolding edge protection components of ledgers and midrails. The test is to determine the effectiveness of ConstructAmesh when fixed to scaffolding where demolition is to take place. The intent is to determine if correctly fixed ConstructAmesh is be able to contain solid materials resulting from demolition falling from a working platform. To this end ConstructAmesh fixed to a panel of scaffolding will be subjected to the test specified in AS/NZS 4994.1, Appendix E as amended by the Test protocol.

Certification:

When tied through the eyelets built into the ConstructAmesh and secured to the relevant ledgers and standards of a scaffold using RS, Non-Releasable Black Nylon 66 Cable Ties, 610 mm x 9 mm (RS Stock number 666-4697) the ConstructAmesh did not tear at the point of impact nor was it penetrated by the test impacting mass of 60 kg. There was some minor tearing at edges of the ConstructAmesh where it was attached to the supporting ledgers and the test mass impacted close by.

Provided ConstructAmesh is attached to scaffolding equipment at all eyelet positions using RS Stock number 666-4697 cable ties it will contain hard objects of 60 kg mass.

Dubaucha

D. W. Crawford BE (UNSW), ASTC, MIEAust NER # 149841, RPEQ #17704

Client: ConstructAmesh Pty Ltd

Date: 3 April 2018

Project: Test protocol for impact on ConstructAmesh

Preliminary:

ConstructAmesh is a mesh that is fixed by ties through eyelets to the scaffolding edge protection components of ledgers and midrails. The test procedure set out here is to determine the effectiveness of ConstructAmesh when fixed to scaffolding where demolition is to take place. The intent is to determine if correctly fixed ConstructAmesh will be able to contain solid materials from demolition falling from a working platform. To this end ConstructAmesh fixed to a panel of scaffolding will be subjected to the test specified in AS/NZS 4994.1, Appendix E as amended below.

1. Test assembly:

The test assembly will be erected using any available prefabricated modular scaffolding system. The test assembly will comprise 3 bays of standards spaced 2.4 m apart and fitted with platform level ledgers at 2 m centres. A guardrail and midrail at standard heights will be installed. For stability the test assembly will be fitted with a diagonal brace of the nominal external face. For additional stability it may be advisable to erect the scaffolding support framing as a scaffold 3 bays in length and 1 bay in depth. ConstructAmesh will be fitted to the nominal internal face of the test assembly, being on the inside of the edge protection guardrail and midrail. The perimeter eyelets of the ConstructAmesh will be secured at each eyelet to the platform ledgers using cable ties. At the level of the guardrail and the midrail mid-span fixing to these components may be with appropriate wire clips. The test assembly will be erected in the vertical orientation in a test rig and stabilized against a horizontal impact force.

2. Test procedure:

The test force will be applied by a 60 kg pendulum mass rotating through a vertical distance of 1000 mm generally as detailed in AS/NZS 4994.1, Appendix E.

Three tests will be carried out.

- 2.1 Test for impact on the ConstructAmesh impacting the centre bay at mid-span between the standards at mid-height between the guardrail ledger and the upper platform ledger.
- 2.2 Test for impact on the ConstructAmesh impacting the centre bay at 500 mm from a standard at mid-height between the guardrail ledger and the upper platform ledger.
- 2.3 Test for impact on the ConstructAmesh impacting the end of the centre bay at mid-span between the standards at mid-height between the guardrail ledger and the midrail ledger. A test between the midrail ledger and the platform ledger is not applicable as normally there is a toeboard at the platform level.

3. Acceptance criteria:

The following acceptance criteria shall apply:

(a) Following the impact the ConstructAmesh with any of the three tests above the ConstructAmesh shall not tear.

(b) Following the impact the ConstructAmesh with any of the three tests above none of the perimeter securing cable ties shall fail.

4. Test report:

The test report shall include at least the following:

- (a) Name and location of the testing facility.
- (b) Identification of the scaffolding system used to support the ConstructAmesh.
- (c) Photographs of the test assembly as set up including the arrangement of the swinging mass and the means of supporting the test assembly.
- (d) The weight of the swing mass used for the test.
- (e) The outcome of the tests and whether all acceptance criteria in 3 above were met.
- (f) Whether the scaffold test assembly was distorted under the impact force.
- (g) Date of test.
- (h) Name, position and qualifications of the person responsible for the tests.
- (i) Signature of the person responsible for the test.
- (j) A copy of the test procedure shall be attached as an appendix.

Test protocol prepared by:

Whanks

D. W. Crawford BE (UNSW), ASTC, MIEAust NER # 149841, RPEQ #17704

October 14, 2013

Mail To:	Bill To:
Malcolm Matthews Constructamesh Pty Ltd	<= Same
email: whornsey@tri-env.com	
Dear Mr. Matthews:	
Thank you for consulting TRI Australasia TRI is pleased to submit this final report	a (TRI) for your geosynthetics testing needs. for laboratory testing.
Project:	Constructamesh Pty Ltd - Safety Mesh
TRI Job Reference Number:	E2386-02-09
Material(s) Tested:	One Safety Mesh Woven Geotextile(s)

Test(s) Requested:

If you have any questions or require any additional information, please call us at (07) 5535 7227.

Grab Tensile (AS3706.2b)

- Safety Mesh

Sincerely,

Warren Hornsey Pr. Eng. Director

This report replaces the original report. Amendments made: Client and Project Name. 11 November 2013

GEOTEXTILE TEST RESULTS TRI Client: Constructamesh Pty Ltd Project: Constructamesh Pty Ltd - Safety Mesh

Material: Safety Mesh Woven Geotextile Roll Number : A15 TRI Log #: E2386-02-09

												STD.
PARAMETER	TEST R	EPLICAT		BER							MEAN	DEV.
	1	2	3	4	5	6	7	8	9	10		
Grab Tensile Properties (AS3706.2b))											
MD - Tensile Strength (lbs)	304	328	285	327	380	338	336	344	350	342	333	26
MD - Tensile Strength (N)	1355	1459	1267	1455	1690	1506	1494	1531	1556	1521	1483	114
MD - Tensile Strength (kN)	1.35	1.46	1.27	1.45	1.69	1.51	1.49	1.53	1.56	1.52	1.48	0.11
TD - Tensile Strength (lbs)	278	243	290	269	225	217	276	245	249	239	253	24
TD - Tensile Strength (N)	1238	1082	1291	1198	1000	967	1230	1089	1109	1063	1127	108
TD - Tensile Strength (kN)	1.24	1.08	1.29	1.20	1.00	0.97	1.23	1.09	1.11	1.06	1.13	0.11
MD - Elong. @ Max. Load (%)	97	107	105	109	117	110	110	109	117	112	109	6
TD - Elong. @ Max. Load (%)	82	78	91	90	82	73	85	76	86	80	82	6

MD Machine Direction TD Transverse Direction

This report replaces the original report. Amendments made: Client and Project Name. 11 November 2013

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

page 2 of 2 GeosyntheticTesting.com 12/45 Township Drive, Burleigh Heads, QLD, 4220 Ph: (07) 5535 7227



November 2, 2013

Mail To:	Bill To:
Malcolm Matthews Constructamesh Pty Ltd	<= Same
email: whornsey@tri-env.com	
Dear Mr. Matthews:	
Thank you for consulting TRI Australasia (TRI is pleased to submit this final report fo	TRI) for your geosynthetics testing needs. r laboratory testing.
Project:	Constructamesh Pty Ltd - Safety Mesh
TRI Job Reference Number:	E2386-02-09
Material(s) Tested:	One Safety Mesh Woven Geotextile(s)
Test(s) Requested:	Mullen Burst (ASTM D3786)

If you have any questions or require any additional information, please call us at (07) 5535 7227.

Sincerely,

Warren Hornsey Pr. Eng. Director

This report replaces the original report. Amendments made: Client and Project Name. 11 November 2013

GEOTEXTILE TEST RESULTS TRI Client: Constructamesh Pty Ltd Project: Constructamesh Pty Ltd - Safety Mesh

Material: Safety Mesh Woven Geotextile Roll Number : A15 TRI Log #: E2386-02-09

PARAMETER		TEST RI	EPLICA	ΓΕ ΝυΜ	BER							MEAN	STD. DEV.
		1	2	3	4	5	6	7	8	9	10		
Mullen Burst Strength (AS2	001.2.4	, modifie	d)										
Tare (kPa): Burst Strength (kPa)	138	3723	4274	2551	3723	4205	3930	4067	4343	3585	4274	3868 Tare Not Sub	534 otracted

MD Machine Direction TD Transverse Direction

This report replaces the original report. Amendments made: Client and Project Name. 11 November 2013

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page 2 of 2 GeosyntheticTesting.com 12/45 Township Drive, Burleigh Heads, QLD, 4220 Ph: (07) 5535 7227

17 February 2014

Mail To:

Bill To:

Malcolm Matthews ConstructAmesh <= Same

Dear Mr. Matthews:

Thank you for consulting TRI Australasia (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	ConstructAmesh - Safety Mesh
TRI Job Reference Number:	A16
Material(s) Tested:	One Woven Geotextile
Test(s) Requested:	UV Resistance (AS 3706.11)

If you have any questions or require any additional information, please call us at (07) 5535 7227.

Sincerely,

Warren Hornsey Pr. Eng. Director

GEOTEXTILE TEST RESULTS TRI Client: ConstructAmesh Project: ConstructAmesh - Safety Mesh

Material: Safety Mesh Woven Geotextile Roll Number : A15 TRI Log #: A16

PARAMETER	TEST RE	PLICATE		ER							MEAN	
	1	2	3	4	5	6	7	8	9	10		
UV Resistance (AS 3706.11)												
												PERCENT
												RETAINED
MD - Tensile Strength (kN/m) - B	22.4	20.5	20.5	20.2	20.5						20.8	
MD - Tensile Strength (kN/m) - E	24.2	20.8	20.3	25.2	19.6						22.0	106
												_
TD - Tensile Strength (kN/m) - B	14.1	13.8	15.9	12.6	17.5						14.8	
TD - Tensile Strength (kN/m) - E	12.5	14.2	13.2	15.1	20.1						15.0	102
												_
MD - Elong. @ Max. Load (%) - B	45	41	39	44	46						43	
MD - Elong. @ Max. Load (%) - E	46	45	35	46	45						44	101
												_
TD - Elong. @ Max. Load (%) - B	64	69	69	65	75						69	
TD - Elong. @ Max. Load (%) - E	60	57	59	62	74						62	91
B - Baseline Unexposed												
E - Exposed for 500 hours of AS 3706	11 Cvcle											
MD Machine Direction TD Tr	ansverse Dire	ction										

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END OF REPORT

page 2 of 2 GeosyntheticTesting.com 12/45 Township Drive, Burleigh Heads, QLD, 4220 Ph: (07) 5535 7227 February 13, 2015

Mail To:

Bill To:

<= Same

Malcolm Matthews ConstructAMesh Pty Ltd 24 Maud St Newstead QLD, 4006

Dear Mr. Matthews:

Thank you for consulting TRI Australasia (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	Construct A Mesh
TRI Job Reference Number:	A15-017
Material(s) Tested:	Safety Mesh Woven Geotextile(s)
Test(s) Requested:	1, Strip Tensile Strength (BS2576) 1, Attachment Point Strength (BS7955) modified*
	* width of specimen used in test was reduced from 250mm

to 200mm

If you have any questions or require any additional information, please call us at (07) 5535 7227.

Sincerely,

Warren Hornsey Pr. Eng. Director

page 1 of 2 GeosyntheticTesting.com 12/45 Township Drive, Burleigh Heads, QLD, 4220 Ph: (07) 5535 7227

GEOTEXTILE TEST RESULTS TRI Client: ConstructAMesh Pty Ltd Project: Construct A Mesh

Material: Safety Mesh Woven Geotextile Roll Number : 1 TRI Log #: A15-017

PARAMETER	TEST RE	EPLICA	TE NUM	BER							MEAN	STD. DEV.	Proj Spec
Strip Tensile Strength (BS2576)	1	2	3	4	5	6	7	8	9	10			
MD - Tensile Strength (N)	901.2	903.5	847.0	966.5	941.0						912	45	> 630
TD - Tensile Strength (N)	1273.5	992.0	1149.4	814.5	728.6						992	226	> 630
Attachment Point Strength (BS795	5) modifie	d											
MD - Tensile Strength (N)	1280.2	1412.3	1278.0	1142.2	1018.1						1226	150	>500
TD - Tensile Strength (N)	1506.6	1308.1	1064.9	1406.7	1234.6						1304	169	>500

MD Machine Direction TD Transverse Direction

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编号:2013BRTC01120

No: 2013BRTC01120



试样名称	安全防护网
PRODUCT NAME :	Construct Amesh
规格型号	2m×15m
TYPE/MODEL :	2m×15m
委托单位	CONSTRUCTAMESH PTY. LTD
CUSTOMER :	CONSTRUCTAMESH PTY. LTD
检验类别	₩
TEST KIND :	Sample Test

苏州美标检测技术有限公司检测中心

Suzhou American Standard Detection Technology Co Ltd IQ Center



检验报告

TEST REPORT

试样名称 PRODUCT NAME			Co	安全防护网 nstruct Amesh							
型号规格		$2m \times 15m$		样品描述	红黑色						
TYPE/MODEL		$2m \times 15m$		COLOR		Red and B	lack				
检验类别		委托检验		检验编号	0	2013BRTC	01120				
TEST KIND		Sample test	t	NUMBER		2013BRTC	01120				
委托单位	CONSTR	RUCTAMESH	PTY. LTD	单位地址	河北省石	家庄市兴凯路	¥156号1-403室				
CUSTOMER	CONSTR	RUCTAMESH	PTY. LTD	ADDRESS	UNI EAG	Γ 1, 49 LINKS LE FARM, Q	S AVENUE LD, 4009				
生产单位	滨州	出金汇网业有限	良公司	到样日期		2013. 11.	. 13				
ER	CONSTI	RUCTAMESH	PTY LTD	DATE		2013. 11	. 13				
取样方式	寄送	送样人	张士忠	邮政编码	050071	电话号码	0311-87080677				
RECEIPT	Post	SENDER	Shizhong Zhang	ZIP CODE	000071	TEL.					
检验依据	JG/T239-2009 建筑外遮阳产品抗风性能试验方法										
STANDARD	JG/T239-2009 External blinds and shutters-Resistance to wind loads-Test methods										
检验日期	2013.11.19 TESTING 72										
TEST DATE		2013.11 19									
检验结论	100 mm m										
CONCLUSION			6	Accord	01						
编 写 REPORT MAKER	到	ile	审核 CHECK	杜春秀	AP	批 准 PROVAL	1195				

检验结果

TEST RESULTS

序号 NO.	检验项目 TESTING ITEMS	单位 UNIT	标准要求 SPECIFICATIONS	检验结果 TEST RESULTS	判定 DETERMIN ATION				
1	透风率 Ventilation rate		在密闭的试验容器内,温度为23℃,1个标准大气压,风速为1m/s-45m/s下进行,风垂直作用于试样上。 In the test container sealed, temperature is 23 ℃,1 standard atmospheric pressure, wind speed is under 1m/s-45m/s, vertical wind						
			acting on the specimen.						
1.1	透风率 Ventilation rate		30%~50%	32%	Р				
备注	测试过程均在扩	支术要求规	观定的环境条件下进行。						
REMARKS	The samples we	re all teste	d under the required technical environmental con	ndition.					
REMARKS "单项判断 "P" represent	The samples were all tested under the required technical environmental condition. ' 符号含义: P: 检验结果符合要求;F: 检验结果不符合要求;N: 结果不发生;-: 无内容。 s pass;"P" represents failure;"N" represents not happen;"-" represents not content.								

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