Fielders Cladding: Fire Rating

This fact file provides information regarding the flammability of Fielders product including the Finesse range of Architectural cladding products manufactured from BlueScope COLORBOND[®] steel ZINCALUME[®] steel or Galvanised steel.

As part of the ongoing commitment to research and product development, BlueScope has commissioned CSIRO to undertake a comprehensive range of testing to determine the Flammability of various permutations of COLORBOND® steel, ZINCALUME® steel and Galvanised steel material. These tests have been conducted in accordance with AS1530.3: SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE. This test measures the 4 key indices of:

Ignitability index – a measure of the tendency for the gaseous pyrolysis products to be ignited during the test. Materials are rated from zero to 20, with materials that do not ignite having an index of zero.

Spread of flame index – a measure of the rate of radiant heat release once a material has ignited. Materials are rated on a scale of zero to 10. The maximum spread of flame index is 10, and the minimum zero.

Heat evolved index - is a measure of the quantity of radiant heat released by the test material in a specified time interval after ignition. Materials are rated on a scale of zero to 10, with increasing indices indicating increasing quantities of radiant heat evolution.

Smoke developed index - relates to the maximum optical density of the smoke produced during the test. The index has a range of zero to 10, with each increase of one index unit indicating a doubling in the optical density of the smoke produced.

The results of this testing are summarised in Table 1 below, refer to APPENDIX A for Test Certificates.

Product	Test Cert	lgnitability Index(0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (1-10)
0.70BMT COLORBOND® Astro® steel	FNE11604	0	0	0	2
0.35BMT COLORBOND® Woodland Grey® steel	FNE11605	0	0	0	2
0.55BMT COLORBOND® Metallic Citi® steel	FNE11606	0	0	0	1
0.42BMT Galvanised steel	FNE11601	0	0	0	2
0.42BMT TRUECORE® steel	FNE11601	0	0	0	1
0.42BMT ZINCALUME® steel	FNE11602	0	0	0	2



Fielders Cladding: Fire Rating

The Australian National Construction code sets out criteria for the determination of Non Combustible materials at C2D10 (5) and C2D10 (6) as show below.

C2D10 Non-Combustible Building Elements Clause C2D10 (5)

The following materials, when entirely composed of itself, are non-combustible and may be used wherever a noncombustible material is required:

(b) Steel, including metallic coated steel

and

Clause C2D10 (6)

The following materials may be used wherever a non-combustible material is required:

(e) Pre-finished metal sheeting having a combustible surface finish not exceeding 1mm thickness and where the Spread-of-Flame Index of the product is not greater than 0.

As shown in Table 1 Fielders products manufactured from BlueScope COLORBOND[®] steel, ZINCALUME[®] steel, or Galvanised steel materials that are less than 1mm thick and have a Spread of Flame index of 0 are considered Non Combustible material in accordance the National Construction Code.

The National Construction Code (NCC) is an initiative of the Council of Australian Governments (COAG) developed to incorporate all on-site construction requirements into a single code. The NCC comprises the Building Code of Australia (BCA), Volumes One and Two; and the Plumbing Code of Australia (PCA), as Volume Three.



Fielders Cladding: Fire Rating

Non Combustible Fielders Cladding Profiles

Product		Base Metal Thickness (BMT) mm	Finish
	Hi-Rib® 680	0.42, 0.48, 0.60	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	SpanForm	0.42, 0.48	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	S-Rib® Corrugated	0.35, 0.42, 0.48, 0.60	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	TL-5	0.35, 0.42, 0.48	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	KingKlip® 700	0.42, 0.48	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	HiKlip® 630	0.42, 0.48	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	FreeForm®	0.55, 0.75	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	Shadowline® 305	0.7	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, COLORBOND® Metallic steel
	Boulevard™	0.55, 0.75	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, COLORBOND® Metallic steel
	Grandeur®	0.55, 0.75	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, COLORBOND® Metallic steel
	Prominence™	0.55, 0.75	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, COLORBOND® Metallic steel
	Neo Roman®	0.55, 0.75	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, COLORBOND® Metallic steel
	Lo-Rib	0.35, 0.42	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	Mini-Flute	0.42, 0.48	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel
	PanelForm	0.42	ZINCALUME® steel, COLOBOND® steel, COLORBOND® Ultra steel, Galvanised steel, COLORBOND® Metallic steel





Quote No.: NE7500				REPOR	T No.: FNE11600
AS/NZS 153	0.3:1999 SIMULTANEOUS I HEAT RE		ON OF IGNITABI	LITY, FLAME PROPA	GATION,
TRADE NAME:	BlueScope Galvanised Steel				
SPONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 2505 AUSTRALIA				
DESCRIPTION OF SAMPLE:	The sponsor described the te layer on both sides.	sted specimen a	s a galvanised stee	I sheet with zinc coatin	ng and passivation
	Nominal thickness of steel she Nominal thickness of zinc coat Nominal thickness of passivati Nominal total thickness: Nominal total mass: Nominal total density: Colour:	ing: 85 on layer: 0.1 0.1 3.1 78	42 mm 5 µm 2 µm 5 mm 9 kg/m² 800 kg/m³ ver		
TEST PROCEDURE:	Six samples were tested in accordance with Australian Standard 1530, Method for fire tests on components and structures, Part 3: Simultaneous determination of ignitability, flame propagatic release and smoke release, 1999. For the test, each sample was clamped to the specimen holder places.				
RESULTS:	The following means and stan	dard errors were	obtained:		
	Parameter	Mea	an St	andard Error	
	Ignition Time (min)	N/#	4	N/A	
	Flame Spread Time (s)	N/4		N/A	
	Heat Release Integral (kJ/m²)			N/A	
	Smoke Release (log10D)		531	0.106	
	For regulatory purposes these	53 83			
	Ignitability Sp Index	oread of Flame Index	Heat Evolved Index	Smoke Develope Index	d
	(0-20)	(0-10)	(0-10)	(0-10)	
	0	0	0	2	
	e test may be used to directly as: ent of fire hazard under all fire co 20 January 2016	Contraction and the second	out it should be rec	ognised that a single te	st method will not
ssued on the 3 rd day o	of March 2016 without alteration	s or additions.			
fulade	- B.	Rod	2		
Heherson Alarde Testing Officer Copyright CS	Brett	Roddy Leader, Fire Test	ing and Assessment		orbidden.
	NATA	IATA Accredited La Number: 16 Corporate Site No d for compliance wi	5 3625		
	ASTRUCTURE TECHNO	NOCIEC			

Test Certificate 0.42mm bmt Galvanised steel.



Quote No.: NE7500	1			REPORT No.: FNE	11601
AS/NZS 153		OUS DETERMINATIO		ITY, FLAME PROPAGATION,	
TRADE NAME:	BlueScope TRUECORE S	teel			
SPONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 250 AUSTRALIA				
DESCRIPTION OF SAMPLE:	The sponsor described	the tested specimen as ing and passivation layer		l sheet with aluminium-zinc-mag	nesium
	Nominal thickness of pa Nominal thickness of re Nominal total thickness Nominal total mass: Nominal total density:	uminium-zinc-magnesiun assivation layer: sin layer:	0.2 μ 3 μn 0.5 r 3.3 l 7800	m um n ng/m² 9 kg/m³	
TEST PROCEDURE:	components and struc release and smoke rele	tures, Part 3: Simultane	ous determination	1530, Method for fire tests on b of ignitability, flame propagatio lamped to the specimen hclder	n, heat
RESULTS:	places. The following means and standard errors were obtained:				
	Parameter Mean			ndard Error	
	Ignition Time (min)	N/A		N/A	
	Flame Spread Time (s)	N/A		N/A	
	Heat Release Integral			N/A	
	Smoke Release (log ₁₀ D			0.213	
	For regulatory purposes	these figures correspon	d to the following in	dices:	
	Ignitability	Spread of Flame	Heat Evolved Index	Smoke Developed Index	
	Index	Index	IIIUCA	(0.10)	
		Index (0-10)	(0-10)	(0-10)	
	Index		S. 697.547.85	1	
	Index (0-20) 0	(0-10) 0 ctly assess fire hazard, b	(0-10) 0		will not
provide a full assessm DATE OF TES⊤:	Index (0-20) 0 e test may be used to dire sent of fire hazard under al	(0-10) O ctly assess fire hazard, b I fire conditions.	(0-10) 0	1	will not
provide a full assessm DATE OF TEST: Issued on the 3 rd day	Index (0-20) 0 e test may be used to dire tent of fire hazard under al 20 January 2016	(0-10) 0 ctly assess fire hazard, b fire conditions. erations or additions. B. Rocco	(0-10) 0	1	will not
provide a full assessm DATE OF TES⊤:	Index (0-20) 0 e test may be used to dire tent of fire hazard under al 20 January 2016	(0-10) O ctly assess fire hazard, b I fire conditions.	(0-10) 0 ut it should be reco	1	will not
provide a full assessm DATE OF TEST: Issued on the 3 rd day Heherson Alarde Testing Officer	Index (0-20) 0 e test may be used to dire tent of fire hazard under al 20 January 2016 of March 2016 without alte	(0-10) 0 ctly assess fire hazard, b I fire conditions. erations or additions. Brett Roddy Team Leader, Fire Testin teration of this report wit	(0-10) 0 ut it should be reco ut and Assessments hout written author	1	will not
provide a full assessm DATE OF TEST: Issued on the 3 rd day Heherson Alarde Testing Officer	Index (0-20) 0 e test may be used to dire tent of fire hazard under al 20 January 2016 of March 2016 without alte IRO 2015 ©. Copying or alt	(0-10) 0 ctly assess fire hazard, b l fire conditions. erations or additions. Brett Roddy Team Leader, Fire Testin teration of this report wit NATA Accredited Lab Number: 165 Corporate Site No	(0-10) 0 ut it should be reco ng and Assessments hout written author oratory 3625	1	will not
provide a full assessm DATE OF TEST: Issued on the 3 rd day Heherson Alarde Testing Officer Copyright CS	Index (0-20) 0 e test may be used to dire tent of fire hazard under al 20 January 2016 of March 2016 without alte IRO 2015 ©. Copying or alt	(0-10) 0 ctly assess fire hazard, b l fire conditions. erations or additions. Brett Roddy Team Leader, Fire Testin teration of this report wit NATA Accredited Lab Number: 165 Corporate Site No ccredited for compliance wit	(0-10) 0 ut it should be reco ng and Assessments hout written author oratory 3625	1	will not

uote No.: NF7500	1			REPORT No.: F	NF11602
	-				
A5/N25 155		RELEASE AND SM		ITY, FLAME PROPAGATIO	лN,
RADE NAME:	BlueScope ZINCALUME Ste	el			
PONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 2505 AUSTRALIA				
escription of Ample:	The sponsor described the alloy coating, resin coating			el sheet with aluminium-zinc-m	nagnesium
	Nominal thickness of steel	sheet:	0.42	. mm	
	Nominal thickness of alum				
	Nominal thickness of passiv	그는 것은 것이 많은 것이야 한 것이 없는 것이 없다.	0.2		
	Nominal thickness of resin	layer:	3 μn		
	Nominal total thickness: Nominal total mass:		0.51	mm kg/m²	
	Nominal total mass: Nominal total density:			kg/m² 0 kg/m³	
	Colour:		silve		
EST PROCEDURE:	components and structure release and smoke release places.	es, Part 3: Simultane e, 1999. For the test,	ous determination each sample was o	1530, Method for fire tests or of ignitability, flame propaga clamped to the specimen hold	tion, heat
ESULTS:	The following means and s	tandard errors were o	btained:		
	Parameter	Mean	sta	ndard Error	
	Ignition Time (min)	N/A		N/A	
	Ignition Time (min) Flame Spread Time (s)	N/A N/A		N/A N/A	
		N/A			
	Flame Spread Time (s)	N/A		N/A	
	Flame Spread Time (s) Heat Release Integral (kJ/	N/A /m²) N/A -1.88	32	N/A N/A 0.159	
	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log10D)	N/A /m²) N/A -1.88	32	N/A N/A 0.159	
	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index	N/A m²) N/A -1.88 ese figures correspond Spread of Flame Index	32 I to the following in Heat Evolved Index	N/A N/A 0.159 dices: Smoke Developed Index	
	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20)	N/A m²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10)	32 I to the following in Heat Evolved Index (0-10)	N/A N/A 0.159 dices: Smoke Developed Index (0-10)	
	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index	N/A m²) N/A -1.88 ese figures correspond Spread of Flame Index	32 I to the following in Heat Evolved Index	N/A N/A 0.159 dices: Smoke Developed Index	
	Flame Spread Time (s) Heat Release Integral (kl/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 e assess fire hazard, bu	32 I to the following in Heat Evolved Index (0-10) 0	N/A N/A 0.159 dices: Smoke Developed Index (0-10)	od will not
rovide a full assessn	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 e assess fire hazard, bu	32 I to the following in Heat Evolved Index (0-10) 0	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2	od will not
rovide a full assessn ATE OF TEST:	Flame Spread Time (s) Heat Release Integral (kJ) Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but e conditions.	32 I to the following in Heat Evolved Index (0-10) 0	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2	od will not
rovide a full assessn ATE OF TEST:	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but e conditions.	32 I to the following in Heat Evolved Index (0-10) 0 ut it should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2	od will not
rovide a full assessn ATE OF TEST:	Flame Spread Time (s) Heat Release Integral (kl/ Smoke Release (log ₁₀)) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but e conditions.	32 d to the following in Heat Evolved Index (0-10) 0 ut it should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2 gnised that a single test metho	od will not
rovide a full assess ATE OF TEST: sued on the 3 rd day <i>bullet</i> eherson Alarde esting Officer	Flame Spread Time (s) Heat Release Integral (kJ) Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat	N/A m ²) N/A -1.82 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but e conditions. tions or additions. Magnetic Roddy tam Leader, Fire Testin	32 It to the following in Heat Evolved Index (0-10) 0 ut it should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2 gnised that a single test metho	
rovide a full assess ATE OF TEST: sued on the 3 rd day <i>bullet</i> eherson Alarde esting Officer	Flame Spread Time (s) Heat Release Integral (kJ) Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat SIRO 2015 ©. Copying or altera	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but conditions. display the second second tions or additions. display the second second tions of this report witt NATA Accredited Laboration	32 I to the following in Heat Evolved Index (0-10) 0 ut it should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2 gnised that a single test metho	
rovide a full assess ATE OF TEST: sued on the 3 rd day <i>bulance</i> eherson Alarde esting Officer	Flame Spread Time (s) Heat Release Integral (kJ) Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat	N/A m ²) N/A -1.82 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, bu e conditions. display the second state is a second state is a second state is a second state is report witt NATA Accredited Lab. Number: 165	32 d to the following in Heat Evolved Index (0-10) 0 ut it should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2 gnised that a single test metho	
rovide a full assess ATE OF TEST: sued on the 3 rd day <i>bulance</i> eherson Alarde esting Officer	Flame Spread Time (s) Heat Release Integral (kJ/ Smoke Release (log ₁₀ D) For regulatory purposes th Ignitability Index (0-20) 0 e test may be used to directly nent of fire hazard under all fir 20 January 2016 of March 2016 without alterat Br Te SIRO 2015 ©. Copying or alterat	N/A m ²) N/A -1.88 ese figures correspond Spread of Flame Index (0-10) 0 assess fire hazard, but conditions. display the second second tions or additions. display the second second tions of this report witt NATA Accredited Laboration	32 I to the following in Heat Evolved Index (0-10) 0 ut it should be reco ut it should be reco ut at should be reco state of the second should be reco	N/A N/A 0.159 dices: Smoke Developed Index (0-10) 2 gnised that a single test metho	

Test Certificate 0.42mm bmt ZINCALUME® steel.



Quote No.: NE7500				REPORT No.:	
AS/NZS 153	0.3:1999 SIMULTANEO HEAT	US DETERMINATION RELEASE AND SMC		TY, FLAME PROPAGATI	ON,
RADE NAME:	BlueScope COLORBOND N	Netallic Steel Polyester			
PONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 2505 AUSTRALIA				
DESCRIPTION OF GAMPLE:	1515 BO 6030 BO		s a polyester pair	nted steel sheet with alum	inium-zinc-
	Nominal thickness of stee Nominal thickness of alun Nominal thickness of pair Nominal total thickness: Nominal total mass: Nominal total density:	ninium-zinc-magnesium	45 μr 0.8 n 5.5 k 7700	n n g/m² kg/m³	
TEST PROCEDURE:	Colour: metallic grey (Astro) Six samples were tested in accordance with Australian Standard 1530, Method for fire tests or components and structures, Part 3: Simultaneous determination of ignitability, flame propagat release and smoke release, 1999. For the test, each sample was clamped to the specimen hold places.				
RESULTS:	The following means and standard errors were obtained:				
	Parameter	Mean	Star	dard Error	
	Ignition Time (min)	N/A		N/A	
	Flame Spread Time (s)	N/A		N/A	
	Heat Release Integral (k			N/A	
	Smoke Release (log10D)	-1.53		0.086	
	For regulatory purposes t	et (2, 2,89)	8452 4553 52 68		
	Ignitability Index	Spread of Flame Index	Heat Evolved Index	Smoke Developed Index	
	(0-20)	(0-10)	(0-10)	(0-10)	
	0	o	0	2	
orovide a full assessm	e test may be used to direct nent of fire hazard under all fi	그는 것은 같은 방법은 것을 하는 것을 많이 할 수 있는 것을 했다. 것을	it should be recog	nised that a single test meth	od will not
DATE OF TEST:	10 February 2016				
ssued on the 3 rd day	of March 2016 without altera	ations or additions.			
fulade	-	B. Road	1		
leherson Alarde esting Officer Copyright CS	E	rett Roddy eam Leader, Fire Testing	and Assessments	sation from CSIRO is forbidde	en.
		NATA Accredited Labo Number: 165 Corporate Site No 3 edited for compliance with	525		
	ASTRUCTURE TECH				

Test Certificate 0.70mm bmt COLORBOND® Metallic steel polyester.



			of Te		
Quote No.: NE7500				REPORT No	o.: FNE11605
AS/NZS 153	0.3:1999 SIMULTANEO	US DETERMINATIO		ITY, FLAME PROPAGA	TION,
			ONCINELAJE		
RADE NAME:	BlueScope COLORBOND S	teel			
PONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 2505 AUSTRALIA				
DESCRIPTION OF		the tested specimen a	as a polvester pa	inted steel sheet with al	uminium-zinc-
	magnesium alloy coating	58.800 S.200 S.200 S.200 •			
	Nominal thickness of stee	l sheet:	0.35	mm	
	Nominal thickness of alun	[[] [] [] [] [] [] [] [] [] [] [] [] []	10000 CONTRACTOR 1000000		
	Nominal thickness of pain	t layer:	50 µ		
	Nominal total thickness: Nominal total mass:			mm kg/m²	
	Nominal total density:) kg/m ³	
	Colour:			grey (Woodland Grey)/bro	wn
EST PROCEDURE:	Six samples were tested in accordance with Australian Standard 1530, Method for fire tests on build components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, h release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in for places.				
RESULTS:	The following means and	standard errors were ol	otained:		
	Parameter	Mean	Sta	ndard Error	
	Ignition Time (min)	N/A		N/A	
	Flame Spread Time (s)	N/A		N/A	
	Heat Release Integral (k.	I/m²) N/A		N/A	
	Smoke Release (log10D)	-1.56	0	0.072	
	For regulatory purposes t	hese figures correspond	I to the following in	dices:	
	Ignitability	Spread of Flame	- Heat Evolved	Smoke Developed	
	Index	Index	Index	Index	
	(0-20)	(0-10)	(0-10)	(0-10)	
	0	0	0	2	
	e test may be used to directl ent of fire hazard under all fi		it it should be reco	gnised that a single test m	ethod will not
DATE OF TEST:	11 February 2016				
ssued on the 3 rd day o	of March 2016 without altera	ations or additions.			
fulade	-	B. Road	1-		
Heherson Alarde		Irett Roddy	8		
esting Officer Copyright CS	T IRO 2015 ©. Copying or alter	eam Leader, Fire Testin ation of this report with	- 1993 - 1983		dden.
	NATA	NATA Accredited Labo Number: 165 Corporate Site No 3			
	And a state of the	edited for compliance with			
CSIRO INFR	ASTRUCTURE TECH	INOLOGIES			
					CSIRO

Test Certificate 0.35mm bmt COLORBOND® steel.



					FUELOS
uote No.: NE7500				REPORT No.	
AS/NZS 153	0.3:1999 SIMULTANEOU HEAT	JS DETERMINATION RELEASE AND SMO		TY, FLAME PROPAGAT	ION,
RADE NAME:	BlueScope COLORBOND St	teel PVDF			
PONSOR:	Bluescope Steel Limited Innovations Lab Old Port Road PORT KEMBLA NSW 2505 AUSTRALIA				
escription of Ample:				uoride (PVDF) painted stee	l sheet with
	Nominal thickness of steel Nominal thickness of alum Nominal thickness of pain Nominal total thickness:	inium-zinc-magnesium	35 µr	n n	
	Nominal total trickness: Nominal total mass: Nominal total density: Colour:				
EST PROCEDURE:	Six samples were tested in accordance with Australian Standard 1530, Method for fire tests on bu componerts and structures, Part 3: Simultaneous determination of ignitability, flame propagation, release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in places.				
ESULTS:	The following means and s	standard errors were ob	otained:		
	Parameter	Mean	Stan	dard Error	
	Ignition Time (min)	N/A		N/A	
	Flame Spread Time (s)	N/A		N/A	
	Heat Release Integral (kJ			N/A	
	Smoke Release (log10D)	-2.05		0.099	
	For regulatory purposes th	_	_		
	Ignitability Index	Spread of Flame Index	Heat Evolved Index	Smoke Developed Index	
	(0-20)	(0-10)	(0-10)	(0-10)	
	0	O	0	1	
	e test may be used to directh ent of fire hazard under all fi 11 February 2016		t it should be recog	nised that a single test met	hod will not
sued on the 3 rd day	of March 2015 without altera	tions or additions.			
kulade	- ;	B. Roan	1-		
leherson Alarde esting Officer Copyright CS		rett Roddy eam Leader, Fire Testin ation of this report with	7 3.8	sation from CSIRO is forbido	len.
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Test Certificate 0.55mm bmt COLORBOND® Metallic Citi® steel.



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