PROPERTIES

MAXIMUM

PHYSICAL

Product Specifications		
Nominal thickness	6mm	12mm
Panel size	3000 x 1500 (4.5m²)	Nominal 3200x1500 (4.8m²)
Nominal weight	6mm - 14.67kg/m²	12mm - 29.34kg/m²
Physical Properties - 6mm	**Method**	**Result**
Determination of dimensions and surface quality	EN ISO 10545-2	100% of tiles without defects
Determination of water absorption by boiling method	EN ISO 10545-3	0,04%
Determination of modulus of rupture and breaking strength	EN ISO 10545-4	
- Average breaking load (N)		734
- Average breaking strength (N)		1444
- Average modulus of rupture (N/mm2)		60,2
- Bending strength	EN ISO 10545-4	≥35N/mm2
Determination of resistance to deep abrasion	EN ISO 10545-6	
- average volume, Vm(mm3)		140
Determination of linear thermal expansion	EN ISO 10545-8	6,1
Determination of resistance to thermal shocks	EN ISO 10545-9	
- method water absorption test ISO 10545-3		
- number of specimens with visble defects		0
Determination of frost resistance		
- Number of damaged tiles after 100 cycles from -5 degrees C to +5 degrees C		0
Determination of chemical resistance	EN ISO 10545-13	
- Houshold chemicals. Ammonium Chloride.		Class A - no visible effect
- Swimming Pool salts. Sodium hypochorite 20mg/l		Class A - no visible effect
- Acid/alkai. Hydrochloric, citrus, Potassium Hydroxide, Lactic		Class A - no visible effect
Determination of colour resistance to light	DIN 51094	No change in brightness or colour
Determination of stain resistance	EN ISO 10545-14	
- Light oil. Stain removed by hot current water for 5 min		Class 5
- Olive oil. Stain removed by hot current water for 5 min		Class 5
- Iodine (alcoholic solution 13g/l). Stain removed by hot current water for 5 min		Class 5

SLIP Resistance - (Wet Pendulum Test)	AS/NZS 4586:2004	CLASS	MEAN BPN
Aster Semi Matt		X	40
Marmi Calacatta Honed		W	45
Marmi Royal Marfil Honed		X	36
Marmi Taxos Honed		X	38
Marmi Polished		Z	20

SLIP Resistance - (Oil & Wet Ramp Test)	AS/NZS 4586:2004	
Aster Semi Matt		R10

Fire Test Results

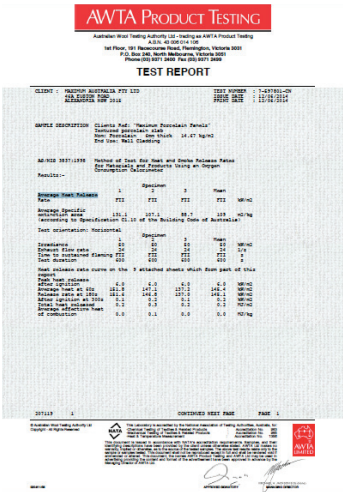
AS/NZS 1530.3 - 1999 - Simultaneous determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

RESULTS		
Ignitability Index	0	Range 0-20
Spread of Flame Index	0	Range 0-10
Heat Evolved Index	0	Range 0-10
Smoke Developed Index	1	Range 0-10

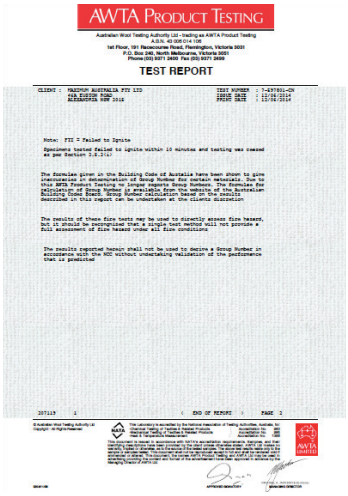
AS/NZS 3837:1998 - Method of Test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	**FTI**	**FTI**	**FTI**	**FTI**	**kW/m2**
Peak heat release after ignition	6.0	6.0	6.0	6.0	kW/m2
Average heat at 60s	151.8	147.1	137.2	145.4	kW/m2
Release rate at 180s	151.6	146.8	137.0	145.1	kW/m2
After ignition at 300s	0.1	0.2	0.1	0.2 k	W/m2
Total heat released	0.2	0.3	0.2	0.2	MJ/m2
Average effective heat of combustion	0.0	0.1	0.0	0.0	MJ/kg

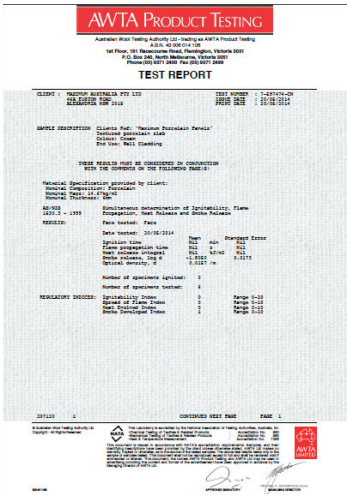
Specimens tested failed to ignite within 10 minutes and testing was ceased as per Section 2.5.2(i)


AWTA PRODUCT TESTING

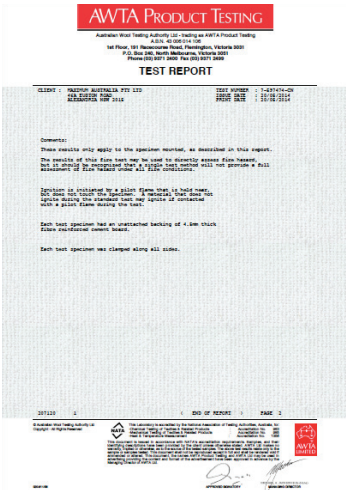
TEST REPORT


AWTA PRODUCT TESTING

TEST REPORT


AWTA PRODUCT TESTING

TEST REPORT


AWTA PRODUCT TESTING

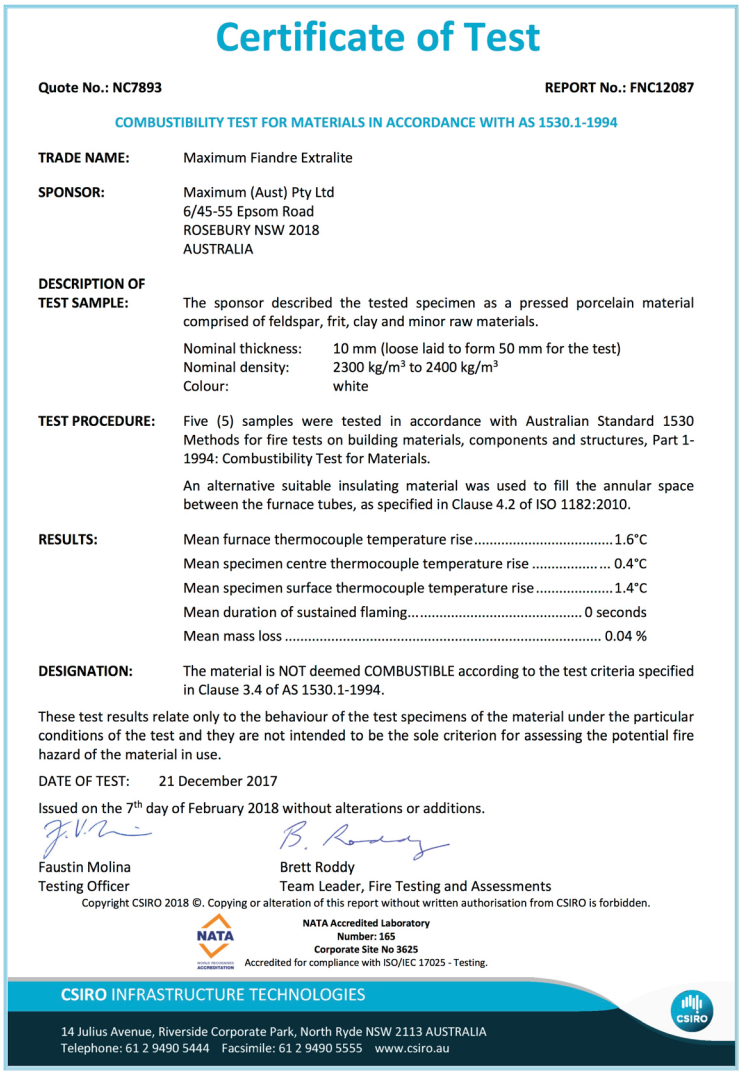
TEST REPORT

Combustibility Test Results

Combustibility test for materials in accordance with AS 1530.1-1994

RESULTS	
Mean furnace thermocouple temperature rise	1.6°C
Mean specimen centre thermocouple temperature rise	0.4°C
Mean specimen surface thermocouple temperature rise	1.4°C
Mean duration of sustained flaming	0 seconds
Mean mass loss	0.04 %

The material is NOT deemed Combustible according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.



Certificate of Test

Quote No.: NC7893 **REPORT No.: FNC12087**

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

TRADE NAME: Maximum Fiandre Extralite

SPONSOR: Maximum (Aust) Pty Ltd
6/45-55 Epsom Road
ROSEBURY NSW 2018
AUSTRALIA

DESCRIPTION OF TEST SAMPLE: The sponsor described the tested specimen as a pressed porcelain material comprised of feldspar, frit, clay and minor raw materials.

Nominal thickness: 10 mm (loose laid to form 50 mm for the test)
Nominal density: 2300 kg/m^3 to 2400 kg/m^3
Colour: white

TEST PROCEDURE: Five (5) samples were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1-1994: Combustibility Test for Materials.

An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

RESULTS:
Mean furnace thermocouple temperature rise..... 1.6°C
Mean specimen centre thermocouple temperature rise ..... 0.4°C
Mean specimen surface thermocouple temperature rise..... 1.4°C
Mean duration of sustained flaming..... 0 seconds
Mean mass loss ..... 0.04 %

DESIGNATION: The material is NOT deemed COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.

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.

DATE OF TEST: 21 December 2017

Issued on the 7th day of February 2018 without alterations or additions.

Faustin Molina
Testing Officer

Brett Roddy
Team Leader, Fire Testing and Assessments

NATA Accredited Laboratory
Number: 165
Corporate Site No 3625
Accredited for compliance with ISO/IEC 17025 - Testing.

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