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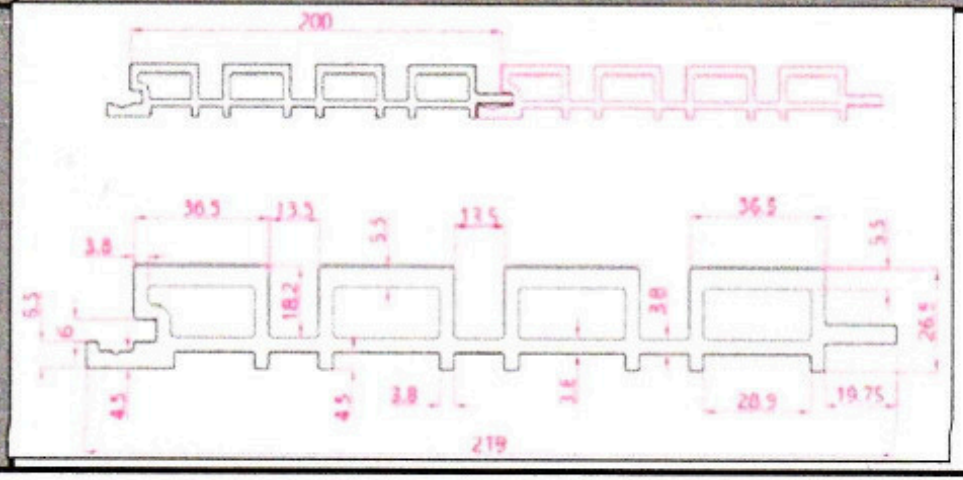
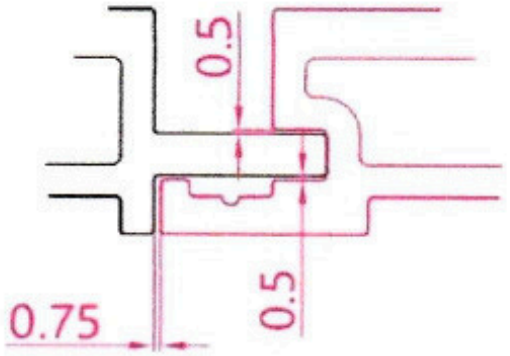
Technical information (219X26.5MM)

Drawing





Material Technical Date Sheet:
HDPE 30%
WOODEN POWDER 55%
Additives 15% (pigment/UV resistance agent/coupling agent/lubricant/antioxidant,etc)

The Composite Wood Decking materials shall meet the following technical requirements

No	Technical Requirement	Standard	Minimum Resules
1	Compression strength (at 50% deformation)	ASTM D695-08	181
2	Comperssive strength	ASTM D695-08/2002a	20.6Mpa
3	Vicat Softening temperature	ASTM D1525-07/2006	83.4 Degree C
4	Mechanical fastener holding test	ASTM D1037-06a Section 16	777.0N
5	Impact resistance	ASTM D4495-00:2005	47J

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6	Specific gravity	ASTM D2395-07a Method A/D792:2000	0.7415
7	Ignitability	AS/NZS 1530.3:1999	13/20
8	Spread of flame	AS/NZS 1530.3:1999	0/10
9	Heat evolved	AS/NZS 1530.3:1999	1/10
10	Smoke developed/Flame test	AS/NZS 1530.3:1999/D635:2000	10/10
11	Estimated Weight (kg/m)		3.02 Kg/m
12	Density (kg/m³)	ASTM D2395:2007A/D792:2000	1350 kg/m³
13	Shore D Hardness, median	ASTM D2240:2000/D:2000	53
14	Water absorption (%)	ASTM D1037:2006a Section 23 Method A/D570:1998	After 2 hours-0.33%
15		ASTM D1037:2006a Section 23 Method A/D570:1998	After 24 hours-0.69%
16	Nail pull resisrance/Screw withdrawal teat	ASTM D1037:2006a Section 14/D6117:1997	791N
17	Maximum tensile strength (Mpa)	ASTM D638:2003	15.6Mpa
18	Modulud of elasticity (Mpa)	ASTM D638:2003	1684 Mpa
19	Elongation at break (%)	ASTM D638:2003	0.027
20	Flexural strength (Mpa)	ASTM D6109:2005	32.2 Mpa
21	Modulus of elasticity (Mpa)	ASTM D6109:2005	2101 Mpa
22	Maximum compressive strength (Mpa)	ASTM D695:2002a	193 Mpa
23	Cpefficient of thermal expansion	ASTM E831:2000	A) After a1 (25 to 50°C):92um/m°C
24		ASTM E831:2000	B) After a2 (90 to 110°C):298um/m°
25	Fire test (performance)	A) BS476: Part 6: 1989/ASTM E84:2009c / AS/NZS 1530.3/1999	Class 2
26		B) BS476: Part 7:1997 or ASTM E84:2009c/AS/NZS 1530.3:1999	Class 2
27		c) ASTM E84: Part 7: 1999 or ASTM E84:2009c/AS/NSZ 1530.3:1999	Class B
28	Linear thermal expansion coefficient	ASTM D696-2008	62.5 um/m°C