

Reynodual[®]



TECHNICAL DATA SHEET

Reynodual[®] 3mm Bonded Sheet

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With our Reynodual® 3mm Bonded Sheet, we've created a new class of pre-painted material that brings your buildings the beauty of coil-coated sheets composed of two 1.5mm (0.059") sheets bonded together.

PROPERTY	UNITS	REYNODUAL® 3MM BONDED SHEET
THICKNESS	in	0.12
	mm	3.0
THICKNESS TOLERANCE	in	0.118 +/- .004
AVAILABLE WIDTH	in	<62
	mm	1575
WIDTH TOLERANCE	in	-1/32, +1/16
	mm	-0.79, +1.59
MAX. LENGTH	in	<243
	mm	6172
LENGTH TOLERANCE	in	-0, +0.25
WEIGHT	lb/ft²	1.7
	kg/m²	8.3
ALLOYS	N/A	3003/3005
MIN. BOND STRENGTH ASTM D1781	in-lb/in	>22.5
	N/mm	100
ALLOWABLE BENDING STRESS	lb/in²	11,500
	MPa	79.3
COEFF. OF EXPANSION	in/in/°F	1.1x10 ⁻⁵
	mm/mm/°C	0.024
STIFFNESS (EI) ASTM C393	lbf/in²/in	1419.9
	MPa-cm²/m	409.4
FLEXURAL MODULUS ASTM C393 (E)	lbf/in²	1.04x10 ⁷
	MPa	7.17x10 ⁴
MOMENT OF INERTIA (I)	in⁴/in	1.36x10 ⁻⁴
	cm⁴/m	5.71x10 ⁻³

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PROPERTY		UNITS	REYNODUAL® 3MM BONDED SHEET
SECTION MODULUS		in³/in	2.33x10 ⁻³
		cm³/cm	0.0381
TENSILE YIELD		lb/in²	20,300
		MPa	140
IMPACT RESISTANCE ASTM D5420		Inches for 8 lb force	0.019
		Inches for 16 lb force	0.033
		Inches for 24 lb force	0.049
ICC ACCEPTANCE CRITERIA AC25		Pass/Fail	Pass
IGNITION TEMPERATURE ASTM D1929	SELF IGNITION	°F	914
		°C	490
	FLASH IGNITION	°F	914
		°C	490
HEAT OF COMBUSTION NFPA 259		btu/lb	0
		kJ/kg	0
ACOUSTICAL ASTM E90		STC	30
		OITC	29
FIRE PERFORMANCE	ASTM E84	Index	Class A Material Flame Spread Index (FSI) = 0 Smoke Development Index (SDI) = 0
	NFPA 285*	Pass/Fail	Pass
	CAN/UL 102	Index	Flame Spread Rating = 0 Smoke Development Classification = 5
	CAN/UL 134*	Pass/Fail	Pass

*The NFPA 285 and CAN/UL 134 tests are performed on a complete wall assembly and not on individual component materials. Any changes or modifications to the set-up, construction and/or materials used in the tested assembly may result in a different fire performance and an assembly test and/or appropriate engineering analysis should always be conducted on the actual assembly intended for use.

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Slight variations in color, gloss and texture can occur between different paint production batches. Paint variations within a specific color, especially for mica and metallic colors, can and do occur that are visible to the human eye, but are within industry tolerances.

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