

AS3000B Bonded Sheet

AS3000B Technical Data Sheet

Technical Engineering Properties

With our AS3000B 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.

U.S. and Metric Equivalent

PROPERTY	Units	AS3000B 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	-0.031, +0.062
	mm	-0.79, +1.59
MAX. LENGTH	in	<243
	mm	6172
LENGTH TOLERANCE	in	-0, +0.25
WEIGHT	lb/ft ²	1.62
	kg/m ²	7.90
ALLOYS (AI) AND TEMPER	N/A	3003/3005 H44
MIN. BOND STRENGTH ASTM D1781	in-lb/in	>22.5
	N/mm	100
ALLOWABLE BENDING STRESS	lb/in ²	11,500
	MPa	79.3
COEFF. OF EXPANSION	in/in/°F	1.1x10 ⁻⁵
	mm/mm/°C	0.024
STIFFNESS (EI) ASTM C393	lb/in ² /in	1419.9
	MPa-cm ² /m	409.4
FLEXURAL MODULUS ASTM C393 (E)	lb/in ²	1.04x10 ⁷
	MPa	7.17x10 ⁴
MOMENT OF INERTIA (I)	in ⁴ /in	1.36x10 ⁻⁴
	cm ⁴ /m	5.71x10 ⁻³
SECTION MODULUS	in ³ /in	2.33x10 ⁻³
	cm ³ /cm	0.0381
TENSILE YIELD	lb/in ²	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



ARCONIC ARCHITECTURAL PRODUCTS LLC

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EC 99603-005

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U.S. and Metric Equivalent

PROPERTY		Units	AS3000B 3mm Bonded Sheet
ICC ACCEPTANCE CRITERIA AC25		Pass/Fail	Pass
IGNITION TEMPERATURE ASTM D1929	SELF IGNITION TEMPERATURE	°F °C	914 490
	FLASH IGNITION TEMPERATURE	°F °C	914 490
HEAT OF COMBUSTION NFPA 259		btu/lb kj/kg	0 0
ACOUSTICAL ASTM E90		STC OTIC	30 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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Laws and building and safety codes governing the design and use of AAP's products, and specifically aluminum composite materials, vary widely. It is the responsibility of the owner, the architect, the general contractor, the installer and the fabricator/transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations. REYNOBOND® FR AND AS3000B HAVE SUCCESSFULLY PASSED US NFPA 285, E84 AND CANADA S134, S102 TESTS AS A PART OF AN ASSEMBLY. ENSURE THE PRODUCT IS USED IN A SYSTEM THAT COMPLIES WITH ALL APPLICABLE REGULATIONS. REYNOBOND® PE IS COMBUSTIBLE; IT COULD CATCH FIRE AND BURN. ANY LABORATORY TESTING INFORMATION PROVIDED BY AAP LLC APPLIES ONLY TO THE PARTICULAR PRODUCT OR ASSEMBLY TESTED AND DOES NOT NECESSARILY REPRESENT HOW PRODUCTS WILL ACTUALLY PERFORM IN USE. REPORTS AND TEST DATA CORRESPONDING TO A PARTICULAR TESTED PRODUCT SAMPLE OR ASSEMBLY ARE NOT A GUARANTEE THAT THE SAME PRODUCT OR ASSEMBLY WOULD ALWAYS ACHIEVE THE SAME TEST RESULT.

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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