

# 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
<b>THICKNESS</b>	in	0.12
	mm	3.0
<b>THICKNESS TOLERANCE</b>	in	0.118 +/- .004
<b>AVAILABLE WIDTH</b>	in	<62
	mm	1575
<b>WIDTH TOLERANCE</b>	in	-0.031, +0.062
	mm	-0.79, +1.59
<b>MAX. LENGTH</b>	in	<243
	mm	6172
<b>LENGTH TOLERANCE</b>	in	-0, +0.25
<b>WEIGHT</b>	lb/ft <sup>2</sup>	1.62
	kg/m <sup>2</sup>	7.90
<b>ALLOYS (Al) AND TEMPER</b>	N/A	3003/3005 H44
<b>MIN. BOND STRENGTH ASTM D1781</b>	in-lb/in	>22.5
	N/mm	100
<b>ALLOWABLE BENDING STRESS</b>	lb/in <sup>2</sup>	11,500
	MPa	79.3
<b>COEFF. OF EXPANSION</b>	in/in/°F	1.1x10 <sup>-5</sup>
	mm/mm/°C	0.024
<b>STIFFNESS (EI) ASTM C393</b>	lb/in <sup>2</sup> /in	1419.9
	MPa-cm <sup>2</sup> /m	409.4
<b>FLEXURAL MODULUS ASTM C393 (E)</b>	lb/in <sup>2</sup>	1.04x10 <sup>7</sup>
	MPa	7.17x10 <sup>4</sup>
<b>MOMENT OF INERTIA (I)</b>	in <sup>4</sup> /in	1.36x10 <sup>-4</sup>
	cm <sup>4</sup> /m	5.71x10 <sup>-3</sup>
<b>SECTION MODULUS</b>	in <sup>3</sup> /in	2.33x10 <sup>-3</sup>
	cm <sup>3</sup> /cm	0.0381
<b>TENSILE YIELD</b>	lb/in <sup>2</sup>	20,300
	MPa	140
<b>IMPACT RESISTANCE ASTM D5420</b>	Inches for 8 lb force	0.019
	Inches for 16 lb force	0.033
	Inches for 24 lb force	0.049



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PROPERTY		Units	AS3000B 3mm Bonded Sheet
<b>ICC ACCEPTANCE CRITERIA</b> <b>AC25</b>		Pass/Fail	Pass
<b>IGNITION TEMPERATURE</b> <b>ASTM D1929</b>	<b>SELF IGNITION TEMPERATURE</b>	°F °C	914 490
	<b>FLASH IGNITION TEMPERATURE</b>	°F °C	914 490
<b>HEAT OF COMBUSTION</b> <b>NFPA 259</b>		btu/lb kj/kg	0 0
<b>ACOUSTICAL</b> <b>ASTM E90</b>		STC OTIC	30 29
<b>FIRE PERFORMANCE</b>	<b>ASTM E84</b>	Index	Class A Material Flame Spread Index (FSI) = 0 Smoke Development Index (SDI) = 0
	<b>NFPA 285*</b>	Pass/Fail	Pass
	<b>CAN/UL 102</b>	Index	Flame Spread Rating = 0 Smoke Development Classification = 5
	<b>CAN/UL 134*</b>	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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**Disclaimer:**

Laws and building and safety codes governing the design and use of AAP's products, including aluminum composite, bonded and flat sheet 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® AND AS3000B ARE COMBUSTIBLE; THEY COULD CATCH FIRE AND BURN. SEE AAP WEBSITE FOR PRODUCT WARNINGS. ANY LABORATORY TESTING INFORMATION PROVIDED BY AAP APPLIES ONLY TO THE PARTICULAR PRODUCT OR ASSEMBLY TESTED AND DOES NOT NECESSARILY REPRESENT HOW PRODUCTS WILL ACTUALLY PERFORM IN USE.

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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