



DENSDECK PRIME TECHNICAL DATA SHEET

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Standard Specification:	All DensDeck [®] Products	ASTM C1177
Code Approvals:	All DensDeck Products	Florida Product Approved Miami-Dade County, Product Control Approved
Test Methods Used to Evaluate DensDeck Properties:	Flame Spread, Smoke Developed Spanability Mold Growth R Value Permeance Noncombustible	ASTM E84 ASTM E661 ASTM D3273 ASTM C518 ASTM E96 (Dry Cup Method) ASTM E136

Fire Resistance and Wind Uplift Ratings and Classifications:

	1/4" and 1/2" DensDeck [®] Products	5/8" DensDeck [®] Fireguard [®] Products
UL 790 Classification	Class A, B or C ¹	Class A, B or C ¹
UL 1256 Classification	Yes ²	Yes ²
FM Approvals	Yes ³	Yes ³
ASTM C1177 Type X	No	Yes ⁴
UL Fire Resistance Ratings	–	Type DD ⁵

Property	1/2"	5/8"
Thickness, Nominal	1/2" ±1/32"	5/8" ±1/32"
Width, standard	4' ±1/8"	4' ±1/8"
Length, standard	4' and 8' ±1/4"	4' and 8' ±1/4"
Weight, nominal, lbs./sq. ft.	2.0	2.5
Surfacing	Fiberglass mat with non-asphaltic coating	Fiberglass mat with non-asphaltic coating
Flexural Strength (ASTM C473 method B), parallel, lbf. min.	≥ 80	≥ 100
Flute Spanability (ASTM E661)	5"	8"
Permeance (ASTM E96 - Dry Cup Method), Perms	>23	>17
R Value (ASTM C518 - Heat Flow Meter), ft ² •°F•hr/BTU (m ² •K/W)	.56	.67
Linear Variation with Change in Temp., in/in °F	8.5 x 10 ⁻⁶	8.5 x 10 ⁻⁶
Linear Variation with Change in Moisture	6.25 x 10 ⁻⁶	6.25 x 10 ⁻⁶
Water Absorption (ASTM C1177), % max	<10	<10
Compressive Strength (ASTM C473), psi nominal	900	900
Surface Water Absorption, grams, nominal	<2.0	<2.0
Flame Spread, Smoke Developed (ASTM E84)	0/0	0/0
Bending Radius	6'	8'

¹ For additional information, consult the UL Certifications Directory under categories TGFU (Roofing Systems) and TGFU7 (Roofing Systems Certified for Canada).

² Classification applies to select assemblies only. For additional information, consult the UL Certifications Directory under categories TIAR (Building Units) and TIAR7 (Building Units Certified for Canada).

³ Included in numerous roofing assemblies with a FM Class 1 rating. Consult True Seal[™] for assembly listings and additional information. Please note, however, that the performance of a roof depends on all components used in the roofing assembly and the interaction of such components.

⁴ Consult ASTM C1177 for further information and significance of use.

⁵ Consult UL Fire Resistance Directory for listings. 5/8" DensDeck Fireguard Roof Boards may also replace any unclassified 5/8" gypsum board on an assembly in the UL Fire Resistance Directory under the prefix "P".