

# STEALTHSKIN™V (SSV) Concealment Panel

## PRODUCT INFORMATION SHEET

**DESCRIPTION** Through testing and the experience of thousands of concealment sites constructed, STEALTH® Concealment Solutions, Inc. has determined that the type and placement of materials used for screening antennas play a vital role in their performance. All STEALTH® concealment panels allow for superior antenna signal transmission compared to fiberglass without the durability problems of fiberbloom or cracking over time. STEALTH® panels are engineered and manufactured to become part of the existing structure and withstand extreme weather conditions while maintaining their original appearance.

**APPLICATIONS** STEALTH® SSV panels can be used to manufacture a variety of rooftop and tower type concealment products including screenwalls, wall replacements, side mounted boxes, clock towers, and bell towers. The panel can be factory textured to match most existing architectural appearances, such as brick, stucco, aggregate, split face block, as well as custom applications.

**RECOMMENDED FREQUENCIES** STEALTH® generally recommends SSV panels for frequencies up to 7GHz. However, they perform well for certain application types. STEALTH® has insertion loss lab testing for the SSV panels up to 100 GHz at multiple incidence angles and textures. Test results for specific applications are available upon request.

**SIZES AVAILABLE** STEALTH® SSV panels are available in 4' x 8', 4' x 10', 4' x 12', 5' x 8' and 5' x 10' standard sizes. Custom sizes are available upon request. Nominal panel thickness is 2.1875". Panel weight is 1.4 lb/sf for a smooth/painted texture.

**PHYSICAL PROPERTIES** STEALTH® SSV panels are manufactured with a sandwich panel geometry. ABS plastic skins are laminated to a extruded polystyrene core using an ICBO approved adhesive. Physical performance properties of the skins and core are listed to the right.

**FABRICATION/INSTALLATION** STEALTH® SSV panels can be fabricated into various sizes and bent into corner panels and other shapes including radius applications. Due to the critical design aspects of many of its applications, STEALTH® recommends that qualified designers or consultants design a total concealment system to support the panels.

**AVAILABILITY** STEALTH® maintains inventory of SSV panels and has custom manufacturing capability in its facilities in California and South Carolina. Please contact us at (843) 207-8000 for sales information.

**TECHNICAL SERVICES** STEALTH® can provide technical information and support to address questions when using SSV panels. Technical personnel are available via telephone at (843) 207-8000.

PHYSICAL PERFORMANCE PROPERTIES OF ABS SKINS			
PROPERTY	UNITS	TEST METHOD	RESULT
Specific Gravity	-	ASTM D-792	1.03
Water absorption (Saturated at 23C)	%	ASTM D-570	1.03
Rockwell Hardness	-	ASTM D-785	95
Tensile Modulus (73F)	psi	ASTM D-638	290,000
Tensile Strength, Yield (73F)	psi	ASTM D-638	6240
Tensile Strength Break (73F)	psi	ASTM D-638	4790
Elongation, Yield (73F)	%	ASTM D-638	3.5
Flexural Modulus (73F)	psi	ASTM D-790	297,000
Flexural Strength (73F)	psi	ASTM D-790	9570
Flammability Rating	-	UL94	HB

PHYSICAL PERFORMANCE PROPERTIES OF EXTRUDED POLYSTYRENE CORE			
PROPERTY	UNITS	TEST METHOD	RESULT
Density	lb/ft <sup>3</sup>	ASTM D 1622	1.5
Compressive Strength	lb/in <sup>2</sup>	ASTM D1621	20
Tensile Strength	lb/in <sup>2</sup>	ASTM D1623	50
Shear Strength	lb/in <sup>2</sup>	ASTM C273	25
Shear Modulus	lb/in <sup>2</sup>	ASTM C273	330
Flexural Strength	lb/in <sup>2</sup>	ASTM C203	50
Flexural Modulus	lb/in <sup>2</sup>	ASTM C203	1600
Water Absorption	% by vol.	ASTM C272	.5
R-Value per Inch	F·ft <sup>2</sup> ·h/Btu	ASTM C518	5.0
Surface Burning Characteristics (Flame Spread/ Smoke Developed)	-	ASTM E84	15/165

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