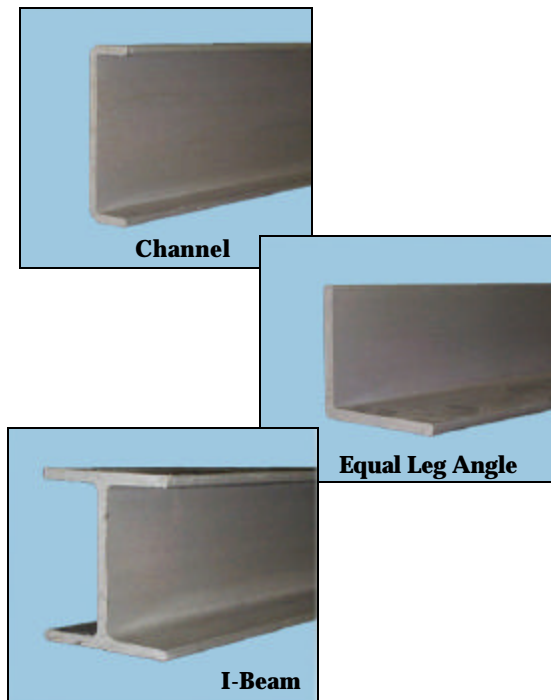


## **STEALTH Materials Guide**

STEALTH Concealment Solutions, Inc. uses the most innovative materials and design methods to balance cost effectiveness, structural integrity, RF transparency, and cosmetic appeal.

The majority of STEALTH'S designs employ three major components:

- Fiberglass Reinforced Plastic (FRP)
- Structural Steel
- StealthSkin™ V Panels



### **FRP**

- FRP is generally used in conjunction with steel in the design of antenna screening enclosures.
- Usually steel columns and kickers are behind the antennas.
- FRP connections must be bolted.
- FRP angles or wide-flange beams act as horizontal girts at the top and bottom of the panels, creating a mounting surface for the panel.
- FRP is less detrimental to the antenna's signal than steel, but should not be placed in the direct path of the RF pattern.

FRP Specifications are available upon request.

### **Structural Steel**

- Galvanized steel is frequently used for structural support of antenna screening enclosures.
- Specifically used when the structural members are behind or away from the antenna's signal.
- Steel is inexpensive and easily accessible.

**StealthSkin™ V Panels**

These panels were the first RF transparent panels ever designed and trademarked in the wireless industry. The StealthSkin™ V panels have been custom designed and tested for each particular frequency range. The RF transparency of a given panel at a particular frequency is also affected by surface treatment (stucco, brick, etc) as well as incidence angle.

**Panel Benefits**

STEALTH'S panel construction uses a plastic foam composite geometry that enables the panels to:

- Be very strong
- Maintain RF signal integrity
- Be easily fabricated

These panels are available in:

- Flat
- Corner
- Radius
- Fire Rated

The following table details what panel is best for your application and the standard sizes in which the panels are stocked. Please call for availability.

Panel Type	Overall Thickness	Frequency Designed For	LBS/S.F.	4'X8'	4'X10'	4'X12'	4'X15'	5'X8'	5'X10'	5'X12'
StealthSkin™ V	2.1875"	0-7 GHz	1.40	X	X	X	X	X	X	X
CS01	2.1875"	All Cellular	1.40	X				X		
MW01	1.6250"	21-31 GHz	1.65	X	X				X	
MW02	1.7500"	14-23, 35-39 GHz	2.31	X	X				X	
StealthSkin™ V Fire Rated	2.1875"	0-7 GHz	1.40	X	X	X	X	X	X	X
StealthSkin™ V Radius	2.1875"	0-7 GHz	1.40	X	X	X				

Test data is available upon request.

## **StealthSkin™ V Corner and Radius Panels**

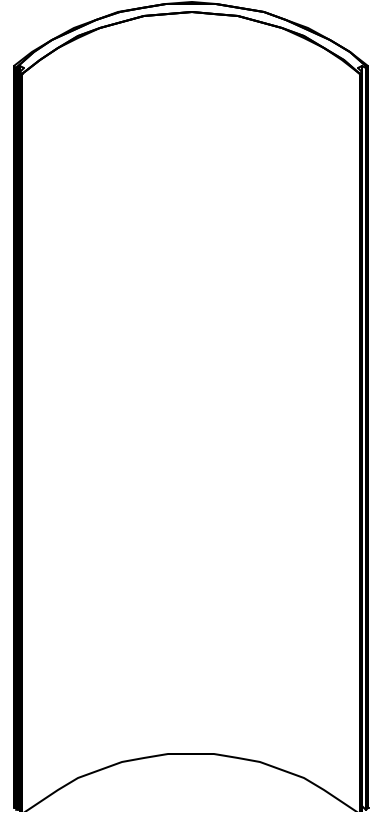
When corner and radius panels are needed for concealment, STEALTH'S panels are factory fabricated to the required angle or radius. For a standard corner panel, each horizontal leg of the "corner panel" is half of the overall width of the original sized panel. Standard corner panels are bent to 60 or 90 degrees per the application. In addition, panels can be factory fabricated to any required angle for any type of application.



\*STEALTH corner panels were used on all four sides of this penthouse extension.



**StealthSkin™ V Corner Panel**



**StealthSkin™ V Radius Panel**

\*STEALTH installed six radius boxes on the corner of this Medical Center in Grossmont, CA.

