

5G InvisiWave™ Concealment Solutions

For the next generation of wireless deployments, small cell sites using 5G mmWave radios (28 GHz + 39 GHz) will be widely installed for network densification purposes. When placed in a community's right-of-way, a concealment solution may be necessary to hide radios in applications such as utility poles, street light poles, rooftop screenwalls, chimneys, etc. Concealments help with city approvals and can speed up the network deployment process. See all features and specifications below regarding our proprietary InvisiWave material, then contact Raycap | STEALTH for assistance with your future 5G concealment projects.

InvisiWave Material Features:

- Rigid surface
- Paint adhesion
- UV Resistant
- Hydrophobic surface
- Easy to fabricate and create various form factors
- Chemical and fire resistance (UL94, EN13501)
- Tested from 700 MHz to 52 GHz
- Minimum insertion loss (avg. 0.1dB @ 28GHz, 0° angle of incidence) *
- Thoroughly tested to identify beam forming impact
- Compatible to back lobe mitigation techniques
- Patent pending
- Thermal insulation

InvisiWave Radome Specifications:

- Radomes are all one-piece with up to a 36" diameter and up to 10' tall
- Radomes require continuous rolled ring bulkheads for attachment
- Smooth and multi-sided radomes
- Ventilated radomes available



RCM-9972-IW



RCM-7803-IW



RCM-5393-IW



RCM-6050-IW

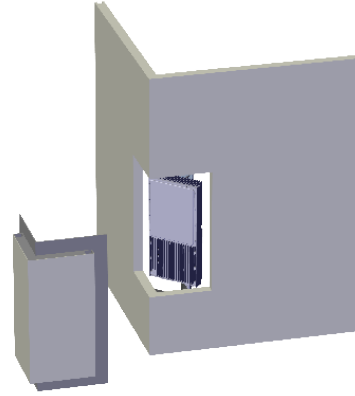
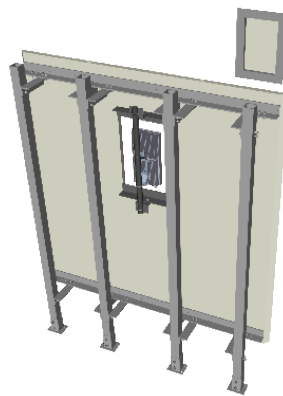
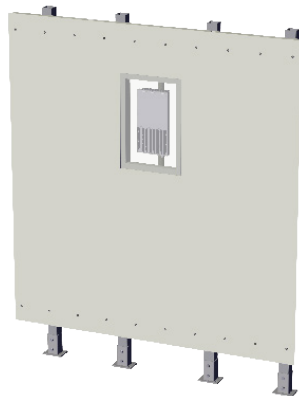


RCM-6137-IW



RCM-7659-IW

InvisiWave panels can be used on new site builds and for retrofit projects. New projects will be designed and manufactured with InvisiWave built in the respective 5G radio location. For retrofits, an aperture replacement will be provided. Both existing and retrofit designs will include the mounting systems.



RCM-2389-IW

InvisiWave Technical Specifications:

Property	Method	Units	Value
Thickness		mm	3
Density	ASTM D-792	g/cm ³	0.6 +/- 0.02
Flexural Modules	ASTM D-790	mPa	1600
Shore Hardness	ASTM D-2240	Shore D	60
Flammability	UL94		V-0
Flammability/Smoke Developed	ASTM E84		25/450
	ASTM E2768		10/550
Surface Resistance	ASTM D-257	Ohm	4.1x10 ¹⁴
Heat Deflection Temperature	ASTM D-648 @ 1.8Pa Load	°C	62
Coefficient of Thermal Expansion	ASTM D-696	10 ⁻⁵ /°C	6.7