



RV COMPOSITE PANELS

AZDEL
ONBOARD®

RADIUS WRAP

**WE'VE DONE THE IMPOSSIBLE
A ROOF WRAP THAT WORKS**





- ✓ **LIGHTER**
- ✓ **NO CRACKING**
- ✓ **MORE FLEXIBLE**
- ✓ **MORE DURABLE**
- ✓ **EASIER TO INSTALL**
- ✓ **NO MOLD OR MILDEW**
- ✓ **NO ROTTING OR WARPING**
- ✓ **NO DELAMINATION OR OIL CANNING**
- ✓ **OFFERS GREATER DESIGN VERSATILITY**

Check the flipside for testing and technical info

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Materials for the Future

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Radius Flex Test Using the Golden Arc Ratio

The test is designed to measure the flexibility and required force in wrapping roof skins composed of FRP adhered to various substrates. The 2.7mm substrates tested were HDF, Bendy Board (flexible Lauan), Azdel RVX, Azdel RVX (scored), and Azdel EcoLite™. Each laminated sample is separately affixed to a point near the beginning of the Golden Arc Ratio apparatus, then wrapped around the progressively tighter radius of the fixture by a factor of 1.618 until the sample experiences structural failure. The radius achieved is then measured at that point. Each sample was tested four times in both its original manufactured direction (MD) and its perpendicular or cross-direction (CD).

APPARATUS MEASUREMENTS (in.)

Section Number	1	2	3	4	5	Sample Size	39 x 12"
Section Radius	12.00	7.42	4.58	2.83	1.75	Fixture L	19.42"
Ending Arc Length*	16.5	28.2	35.3	39.8	42.5	Fixture W	12.0"

* Samples began at the lock block, about 2" from the actual edge of the apparatus, thereby reducing the ending arc length by that value. Samples were measured from their starting point and were not affected by this adjustment.



The labeled points indicate where each material scored the lowest among its four trials - where each was known to fail. The average of each was slightly better. Because the Azdel EcoLite samples never failed, significantly outperforming all others in flexibility and required torque, EcoLite will make radius wrap construction much easier.