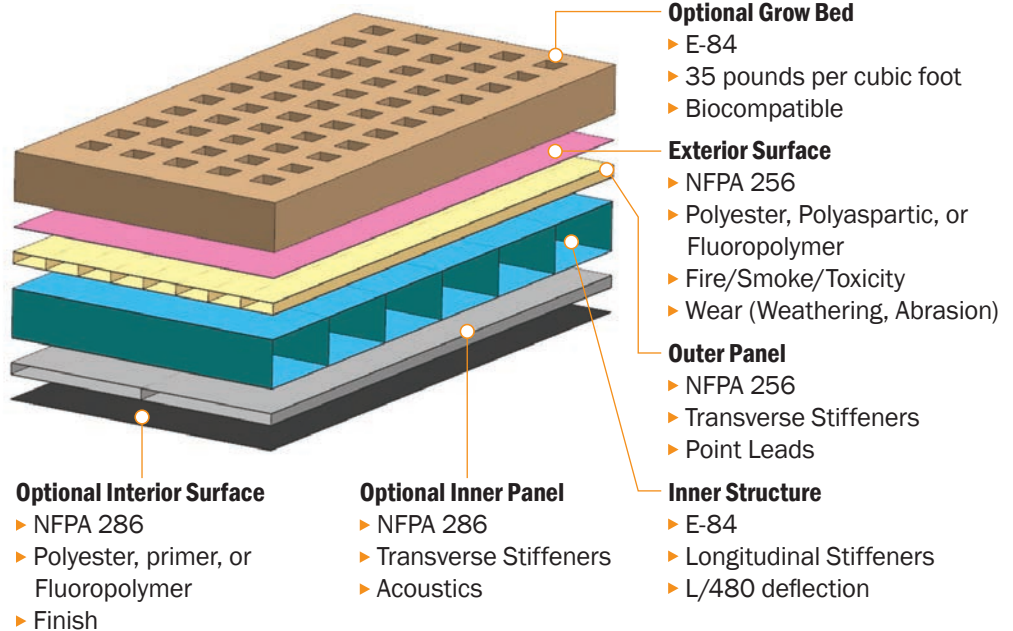


# Multifunctional Light-Weight Composites for Architecture

Janicki Industries (Janicki) manufactures top-quality structural elements, wall panel systems, roof panel systems, and architectural features, specializing in composite materials. Composites are revolutionizing products in aerospace, automotive, marine and now construction. Janicki is the vanguard of large surface composite manufacturing. Our years of composite experience in many industries combined with our team of experts enables us to deliver custom parts specific to your requirements.

## EcoRoof System

- ▶ Rot-proof Living Roof
- ▶ 75% lower weight over concrete
  - Reduced transportation costs
  - Reduced crane capacity requirements
  - Reduced erection cost
- ▶ Insulative value of R40+
- ▶ Fire rated (NFPA 256, 285, 286, E84)
- ▶ Load capacity >35 psf DL + 100 psf LL
- ▶ Acoustic Barrier ASTM E1332
- ▶ Structurally adaptable-Available in widths up to 10' and spans up to 45'
- ▶ 100% Factory Built – Minimizes jobsite workforce and erection time
- ▶ Tight tolerances to minimize field changes.



**Composite material delivers extraordinary value**



Nadcap AC7118 CERTIFIED

AS9100C CERTIFIED



# Facilities Optimized for Architectural Structures

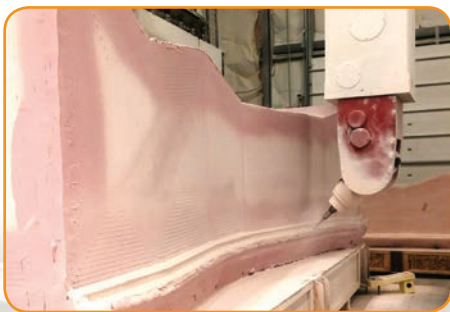
Janicki's workforce, facilities and equipment are optimized to engineer and manufacture complex 3D surfaces with state of the art materials. With over 380,000 sq. ft. of plant space, Janicki is equipped to build your largest and most complex project. Plants have multiple workstations equipped with all the necessities: gas, electricity, vacuum, nitrogen, compressed air, and high-speed networking to cast parts up to 500 ft long. Industrial ovens and 5-axis mills are collocated to cure and machine monocoque parts up to 100 ft long.

## 5-Axis CNC Milling

Janicki's mills are unsurpassed in precision and scale with repeatable tolerance of  $\pm 0.003''$  and envelope up to 100' x 20' x 8'. Our proprietary, CNC software uses custom volumetric error compensation algorithms that provide unprecedented accuracy.



Overhead Cranes and Large Facilities



Surfaces unique to you

## Engineering

Engineering Services support fabrication of parts from one-off conceptual prototypes to serialized build-to-print construction parts.

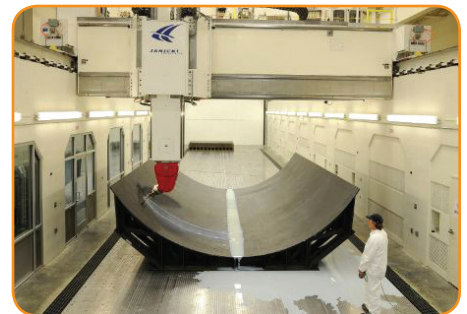
- ▶ Concurrently develop part & tooling
- ▶ Expert in optimization for manufacturability
- ▶ CATIA Composite Design workbench to analyze designs and create ply kits and laser projection files
- ▶ Rapidly incorporate revisions
- ▶ Manage configuration with SAP-PLM

## Equipment

- ▶ 9 Large 5-Axis CNC Mills (100' x 20')
- ▶ Machine Shop (4 & 5-Axis Mills & Lathes)
- ▶ Oven (100' x 24' x 14') w/ Automated Controls
- ▶ Weld Shop (Certified Welders)
- ▶ Waterjet & Plasma Cutter (14' x 42')
- ▶ Autoclave (12' x 50')
- ▶ Annealing Furnace (24' x 72')
- ▶ 25 Ton Overhead Cranes
- ▶ Grit Blasting & Paint Booth (60' x 16' x 10')
- ▶ 1,100 Ton Forming Press
- ▶ 45' Eastman Ply Cutter
- ▶ Gerber Ply Cutter



Engineering 3D Design to Manufacturing



5-Axis CNC Milling: Large Scale & Precise



100' Mill for Large Architectural Beams

our  
**quality** promise

- ▶ Dedicated Continuous Improvement
- ▶ Deliver Quality Products
- ▶ Exceed Customers' Requirements

**Sedro-Woolley, WA**

117,000 ft<sup>2</sup>

**325**  
Employees

**Hamilton, WA**

164,000 ft<sup>2</sup>

**361**  
Employees

**Layton, UT**

100,000 ft<sup>2</sup>

**60**  
Employees



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