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Tooling News

PRECISION BOARD PLUS HDU
FEATURED CUSTOMER SERIES

NEWSLETTER 6



"These guys
really deserve
a Hand!"



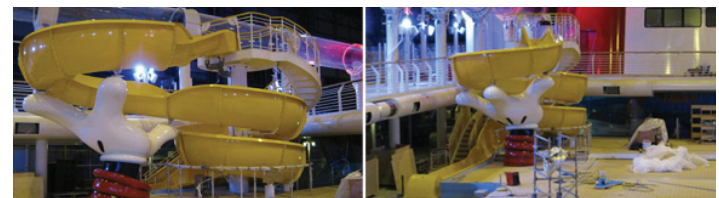
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FormaShape 3D Architectural Design Solutions, used PBLT-4 & PBLT-8 for their tooling plug



FormaShape attaching the slide flume to the supporting hand



The completed slide just before it debuted on its maiden voyage in April 2011

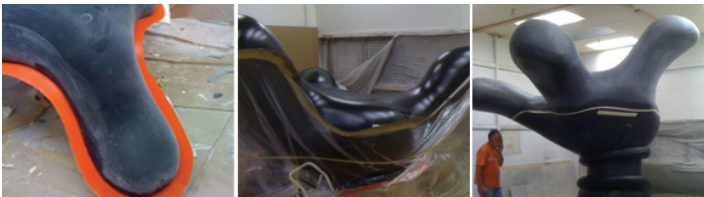
Family-Themed Cruise Line Debut's New Water Slide

Who do you call if you're a discerning family-themed cruise line looking to build a state of the art water slide featuring a signature element from one of your most beloved and iconic characters? The answer is FormaShape 3D Architectural Design Solutions of British Columbia. The design called for a giant replica of the white-gloved hand from everyone's favorite cartoon mouse supporting the main structure of the slide. Patrons had to immediately recognize the hand, so every detail of the larger-than-life appendage became important, right down to the fingers, 3 of them, and thumb... good trivia question!



Finished Precision Board Plus plug showing bonded segments used to construct the machining block

Because of its strength, rigidity and ease of machining, FormaShape chose to machine the FRP tooling plug from Precision Board Plus (both PBLT-4 and PBLT-8). Once the CAD design was approved by the client, the toolpath was fed into their 5-axis CNC router to machine the segmented plugs that made up the hand. According to Sean Conneely, Custom Fabrication Manager at FormaShape, new systems were developed for both the segmented plug and moulding techniques used on this project. In addition, special fabrication techniques had to be developed for both the plug and moulded parts. The precise Open Moulded process used by FormaShape ensures that the final FRP panels that make up the finished hand are within +/- 1mm of the Precision Board Plus machined plug!



Precision OM process used to manufacture the FRP segments that make up the hand

Having designed, engineered and manufactured the entire slide, the job of installation naturally fell to FormaShape - Whitewater West Industries. Check out their websites at www.formashape.com and www.whitewaterwest.com for more examples of their work.

Did you know Coastal Enterprises makes support fixtures?

Coastal Enterprises will fabricate a support fixture for any Precision Board Plus tool. This support tool can be used for tool transport, CNC machining, lay up of composite laminate, oven/autoclave curing, final inspection, and every other process procedure. Support structures are designed with all-direction casters, leveling jacks, and tool hold down attachments that can be tightened during machining, etc. and loosened during oven/autoclave cycling. The custom hold down attachment allows independent movement between the tooling block and the support fixture.



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4 through 60 pound densities all in stock, with custom densities on request.

Any Thickness You Require

From 1/4" to 24" and everything in between.

WIDEST VARIETY OF SHEET SIZES AVAILABLE

- 20"x60"
- 45"x60" **NEW**
- 5'x8'
- 24"x60"
- 4'x8'
- 5'x10'
- 30"x80"
- 4'x10'

**ALL IN STOCK AND
READY TO SHIP**

Interested in Having Your Company Featured in Our Newsletter?

You may have noticed we like to share interesting stories from our customers about their projects using Precision Board Plus. If you would like us to feature your company in one of these stories, we want to hear from you.

Here's what we're looking for:

- *In process photos working with Precision Board Plus*
- *Finished project photos*
- *Advice for those who are new to Precision Board Plus*
- *Tips for working with HDU*

Send us an e-mail at hdu@precisionboard.com along with any interesting details about the project.

These newsletters are sent to thousands of our customers and are a great way to build recognition for your company and share your expertise.

Certified Green

Precision Board Plus has been reformulated with eco-friendly, "Green" urethane components. The new Plus formulation has achieved a certified "Carbon Balance" of 3 to 1 and a "Rapidly Renewable Resource Content" of 18.9%. This major environmental improvement has also produced a tighter cell structure which results in more chips and less dust when cutting and machining.

Precision Board Plus now assists in meeting LEED requirements for obtaining USGBC and ICC 700 Building Credits.



Coastal Enterprises also offers a complete line of companion primers, adhesives and specialty coating products.



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