



# Vectorworks Marine, LLC

## Product Description

### Basic Plug

#### Product Description:

Basic plugs are fabricated using Vectorworks Marine, LLC's five-axis routers. They typically consist of a steel sub-base upon which is lofted a CNC cut woodkit. The woodkit is sheeted and then a proprietary combination of Urethane foam, fiberglass, and higher density putty is routed twice to obtain the final shape. The surface provided is ready to be finished. Rough Plugs can be provided for projects of all sizes, from hatches and other small parts, all the way through complete megayachts.



Base Steel



Sheeted Woodkit



Mill Final Passes

#### Pre-Requisites:

Prior to beginning work on the Basic Plug, it is first necessary to develop three dimensional computer model of the part surfaces. The customer typically provides this machine ready model 3-4 weeks in advance of the scheduled router slot so that the engineering for the sub-base and the woodkit can be completed and toolpaths developed and waiting for the slot under the router. VMI can also provide an estimate to create the model.

#### Surface Finish:

After the router has machined the final surface of the putty, any residual machining scallops are removed. No additional surface finishing is standard, although VMI can quote taking the plug through to 400 grit.

#### Durability:

Basic plugs provided by Vectorworks Marine can be used to fabricate two first generation moulds provided that the geometry is demouldable and that sufficient care is taken with the final finish work, surface preparation, and lamination of the mould. Vectorworks Marine will gladly provide guidance in these regards.

#### Pricing:

Pricing is affected by a number of variables, not the least of which is the relative complexity of the surfaces to be tooled. Accordingly, pricing estimates will have to be provided on a project basis.

#### Non-Standard Options:

At the request of the customer, the surface finish can be improved from the final putty surface and finished up to 400 grit with various sanding primers. Modeling, engineering support, and even prototyping and manufacturing of the parts can also be provided.