Volume II
Section I
Catalog Cuts from Vendors

- This section contains URLs to catalog cuts from vendors. The cuts were selected to be illustrative. The author intends no specific endorsement of these vendors – there may be other vendors of similar products that are comparable. The URLs given in the text and below are moving targets at best. In addition, some vendors sites require visitors to register.

In order:

1. Plastic piles and structural members, cuts from Trelleborg Plastic piles and timbers, some made from recycled plastic, are used for structures and fender piles. One brand features a pile that is filled with recycled plastic with fiberglass reinforced plastic rebar and a UV light and abrasion resistant outer skin. These are available in both pile and beam shapes. http://www.trelleborgms.com/catalogue_1.aspx?id=1:30038&cat=1:469203&pagenum=1&pagesize=20 for plastic piles and http://www.trelleborgms.com/catalogue_1.aspx?id=1:30038&cat=1:469282&pagenum=1&pagesize=20 for a plastic beam.
2. Plastic pile coating, a specification from Schrader Marine. This is another method of plastic encapsulation is to coat a pile with plastic before it is installed. Spray on polyurea ("truck bed liner") is one type of plastic used [3] and the finished coat may be 250 mil (1/4 inch) thick. http://www.schraderco.com/pdf/poly1.pdf for a These are generally applied over a treated wood to reduce transfer of the treating chemicals to the environment and the coating is not structural.
3. Plastic products that attach to the outside of piles. This brand features a petrolatum mat that lays between the plastic and the wood, that, when compressed, seals the wood preventing oxygenated water from reaching the wood and thus preventing marine borers. See http://www.tapecoat.com/marine_pages/seriesr.htm
4. Epoxy. Another retrofit method that should work with installed piles is an epoxy grout that will bond to wet wood (or concrete or steel). A metal form sleeve is placed around the pile and the mixed epoxy is placed in the form. http://www.schraderco.com/pile_res.cfm
5. Supplier of ACZA, a water-born copper-based preservative Chemonite® ACZA should contain approximately 50% copper oxide, 25% zinc oxide, and 25% arsenic pentoxide dissolved in a solution of ammonia in water
6. Stainless steel fasteners or a plastic sleeve for steel fasteners are recommended for ACZA.See http://www.archchemicals.com/Fed/WOLW/Products/Preservative/Chemonite/hardware.htm