

**Composeal**  
Shower Pan

30 & 40 MIL

# WATERPROOF MEMBRANE

## BLUE VINYL SHOWER PAN MEMBRANE

FOR WATERPROOFING UNDER 'THICK BED'  
TILE INSTALLATIONS ♦ PROTECTS FROM  
COSTLY SECONDARY WATER DAMAGE

- ♦ Flexible Waterproofing for Floors and Walls
- ♦ Custom Tiled Showers, Baths, Fountains, Roof Decks, Terraces, Exterior Stairs & Walkways
- ♦ Can Be Easily Formed to Fit Any Dimensions or Drain Locations
- ♦ Durable and Long Lasting
- ♦ Ideal for New Construction and Renovations
- ♦ Can be used where ever a reliable and long lasting waterproof membrane is needed such as a waterproof liner for outdoor hockey rinks.

### COMPOSEAL BLUE

- ♦ Manufactured in 30 & 40 mil thicknesses
- ♦ Available in 4, 5 & 6 foot widths
- ♦ Choice of 50 or 100 foot rolls

*Made in the USA*



COMPOSEAL BLUE meets and surpasses **ASTM D4551** and **ANSI 118.10** for PVC flexible waterproofing membrane

ALSO AVAILABLE FROM COMPOTITE:

|  |  |
|--|--|
| <br><b>Composeal</b><br><i>GOLD</i><br>CRACK ISOLATION & WATERPROOF MEMBRANE | <br><b>Compotite</b><br>LINEAR DRAINS<br>& GRATES |
| <br><b>Composeal</b><br><i>WHITE GOLD</i><br>SOUND REDUCTION MEMBRANE        | <br><b>Compotite</b><br>NICHES & BENCHES          |
| <br><b>Composeal</b><br>AQUASHELL LINE                                       | <br><b>Composeal</b><br>LIQUID BLACKGOLD          |
|  | <br><b>Composeal</b><br>BLACKGOLD                 |



COMPOTITE CORPORATION  
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[www.compotite.com](http://www.compotite.com)



Compotite Corporation, headquartered in Los Angeles, CA has been manufacturing shower pans since 1938. Compotite®, the first and original standard for shower pan liners, was superseded by COMPOSEAL BLUE in 1979, which was developed to provide even greater protection, ease of handling and long term durability.

### STANDARD SHOWER PAN INSTALLATION

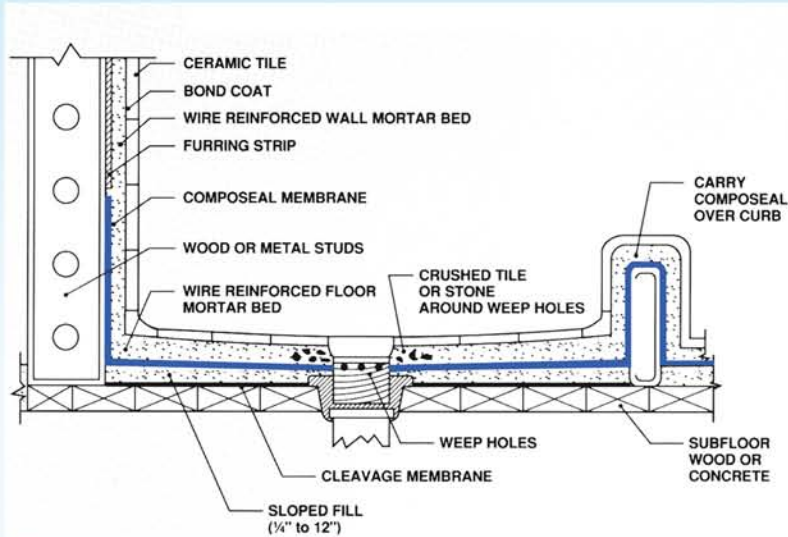


Figure 1 TCNA Assembly B414

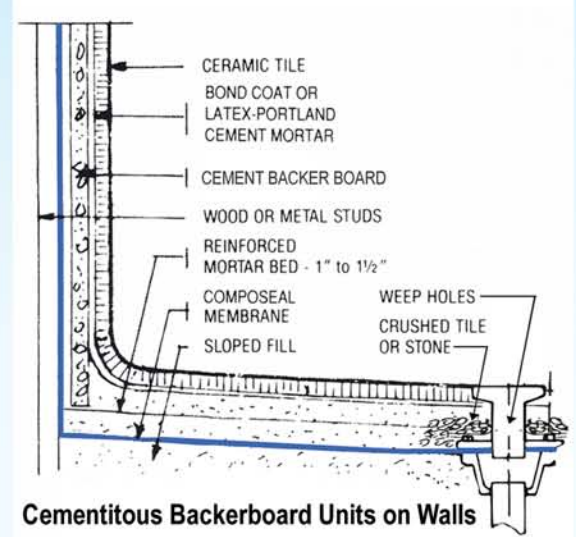


Figure 2 TCNA Assembly B415

Before placing pan, see that the sub-floor is sloped toward drain  $\frac{1}{4}$ " per foot using cement mortar if necessary, and is free of loose objects or projections such as nail heads or gravel.

Make turn-up along walls not less than 3" above curb line, allowing sufficient material to fasten to outside face of curb and out onto floor a few inches away from shower if possible. If there is no curb in the shower, materials should be fastened 6" above the floor.

Notch wood studs to  $\frac{1}{2}$ " to the height of the pan to allow COMPOSEAL to be flush with face of the studs. For metal studs, use furring strips ( $\frac{1}{4}$ " to  $\frac{1}{2}$ ") above the top of the pan.

Fasten 3" or higher above the top of curb. Use flathead roofing nails or staples on wood studs. Use drywall screws and washers on metal studs. DO NOT penetrate the membrane anywhere below the 3" mark in order to maintain waterproof integrity of the pan.



Figure 3

Fold corners outside pan as illustrated (Figure 3). Allow for plumb surface by turning corner folds of pan out of the way between studs. Notch studs or use furring strips mentioned above to maintain a flush surface. DO NOT cut pan corners.

Use bolt-down clamping-ring type drain with weep-holes. Set so sub-drain lip is flush with subfloor. Trim opening for drain exactly to the size of drain opening and NOT out to bolt holes. Pierce membrane at the bolt holes with



a nail or the like to accommodate bolts with a tight fit. Use Compotite Elastiseal or a 100% mold/mildew resistant silicone to bond the pan and sub-drain.

Plug sub-drain and fill pan with water and let stand for 24 hours to insure clamping ring is tight and pan undamaged. Bolt clamping ring firmly. Place a small amount of pea gravel or other porous material at weep holes so they remain clear when setting bed is poured.

## ◆ ACCESSORY INSTALLATION MATERIALS

### SEAM WELDING

COMPOSEAL BLUE sheets can be welded together to create a perfect waterproof bond with instant contact strength using Composeal PVC Solvent Cement. Use only Compotite approved PVC cement for seaming and welding Composeal. Lay sheets with an overlap of two inches with upper lap edge toward direction of watershed. Fold back top edge and apply Composeal PVC Solvent Cement to both surfaces. Once the surfaces have become slightly tacky place together and press or roll to form a tight bond. Always verify complete adhesion of the layers.

### CORNERS & CURB PROTECTORS

COMPOSEAL's multi-purpose, preformed corners/curb protectors are available to reinforce waterproofing at all corners and curbs. These protectors are sold in pairs and can be used for all outside corners as shown in (Figure 4). Inside corners are available but Compotite DOES NOT recommend using them for most installations. When inside corners are cut they weaken the installation.



Figure 4  
COMPOSEAL BLUE corners

### SEALANT

COMPOSEAL BLUE is bonded to the sub-drain assembly using Compotite Elastiseal

## ◆ ADDITIONAL WATERPROOFING INSTALLATIONS

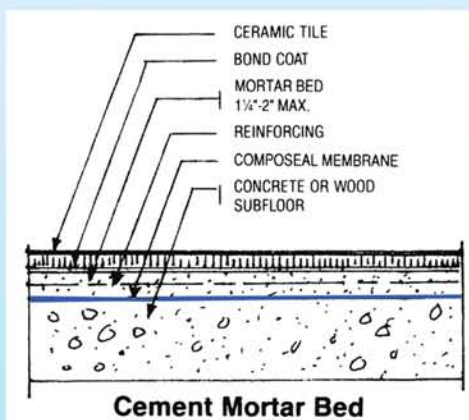


Figure 5

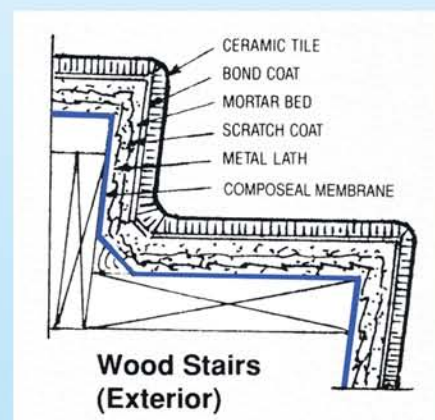


Figure 6



## SPECIFICATIONS & CODES:

COMPOSEAL BLUE complies with the standards of UPC-IAPMO (file #2225) and NES (PCR SP 102). COMPOSEAL BLUE has separate municipal approval where required, City of Los Angeles (RR#4398), City of Philadelphia (40 mil), Metropolitan Dade County, Florida and The Commonwealth of Massachusetts. Approval is no longer required in New York City for concealed PVC waterproof membrane.

COMPOSEAL BLUE also complies with the Corps of Engineers specs for PVC shower pan material (para 5.8.3.2 15 p1-18) and meets the requirements of FHA Publication 4900.1.

COMPOSEAL BLUE meets and surpasses the engineering requirements of the American Society for Testing and Materials (ASTM). ASTM D4551 is the test standard established for PVC membranes used for Shower Pans.

| ENGINEERING PROPERTIES  | ASTM D 4551 Specifications |              | COMPOSEAL Test Results |                   |
|---|----------------------------|--------------|------------------------|-------------------|
|   | Grade 30                   | Grade 40     | 30 mil                 | 40 mil            |
| Thickness, inches   | .030"                      | .040"        | .031"                  | .042"             |
| Tensile Strength, lbs/in. width   | 60-lb min.                 | 80-lb min.   | 89-lb (2870 psi)       | 113-lb (2700 psi) |
| Tensile Strength at 100% elongation   | 30-lb min.                 | 40-lb min.   | 43-lb                  | 57-lb             |
| Ultimate Elongation before breaking   | 300% min.                  | 300% min.    | 400%+                  | 400%+             |
| Tear Resistance, lbs/in. width  | 185-lb min.                | 250-lb min.  | 260-lb                 | 263-lb            |
| Pinholes  | None                       | None         | None                   | None              |
| Micro-Organism Resistance (fungus, mildew, mold)  | No Growth                  | No Growth    | No Growth              | No Growth         |
| Chemical Resistance:  |                            |              |                        |                   |
| Distilled H <sub>2</sub> O % wt. change*  | 1% max                     | 1% max       | +0.4%                  | +0.4%             |
| Soapy H <sub>2</sub> O % wt. change*  | 2% max                     | 2% max       | +0.5%                  | +0.3%             |
| Alkali, pass/fail (hydrostatic)   | Pass                       | Pass         | Pass                   | Pass              |
| Shrinkage, dimension change at 158° F ASTM 1204   | 5% max                     | 5% max       | 1.3%                   | 2.9%              |
| Volatility, % loss at 158° F after aging  | 1.5 max                    | 1.5 max      | None                   | None              |
| Hydrostatic Pressure (to test water penetration):   |                            |              |                        |                   |
| Original Condition  | Pass                       | Pass         | Pass                   | Pass              |
| After Folding Test (cold crack, 4 hrs. @ 0° F)  | Pass                       | Pass         | Pass                   | Pass              |
| After Puncture Test   | Pass                       | Pass         | Pass                   | Pass              |
| After Indentation Test  | Pass                       | Pass         | Pass                   | Pass              |
| No evidence of surface wetness or other signs of water penetration was detected on any of the tested specimens. |                            |              |                        |                   |
| Additional Tests:   | ASTM D751                  | COMPOSEAL 30 | COMPOSEAL 40           |                   |
| Seam (lap joint) strength ASTM D751   | 8 lbs/in. min.             | 69 lbs/inch  | 85 lbs/inch            |                   |
| Specific Gravity: 1.29 g/cm <sup>3</sup>  |                            |              |                        |                   |
| Cold Crack: passed @ -53° F   |                            |              |                        |                   |
| ASTM Standards D1004, D 2240, D 412, D1790, E 96 and FHA Spec. 4900.1 are also met by COMPOSEAL.                |                            |              |                        |                   |
| *Measure of water/chemical surface absorption.  |                            |              |                        |                   |

Tests were conducted by the SGS U.S. Testing Co., Tulsa, OK 74116 & Smith Emery Co., Test No. T-88-122A-B.

## LIMITATIONS:

COMPOSEAL BLUE should not be used as a liner for pools containing fish or water plants

## WARRANTY:

COMPOSEAL BLUE is warranted against failure for any reason, and in the case of the event of failure, replacement material will be supplied at no charge. This warranty applies only to the membrane itself and not to the manner of installation over which we have no control. It does not extend to consequential damage or other implied responsibility. COMPOSEAL BLUE should last the life of the building.

## TECHNICAL SUPPORT:

The TCNA (Tile Council of North America) Handbook for Ceramic, Glass and Stone Tile Installation provides general instructions and guidelines for installations requiring waterproof membranes. Compotite Corporation provides technical support for installers of COMPOSEAL products. Refer to our website at [www.compotite.com](http://www.compotite.com) or call our main office at **800-221-1056** for additional technical literature and installation materials including written brochures and DVD's. COMPOSEAL BLUE and its accessory products are available through quality ceramic tile distributors and plumbing supply houses. For information about your local Compotite Representative call **800-221-1056** or consult our website at [www.compotite.com](http://www.compotite.com).