



MADE BY
COMPOTITE CORPORATION
355 GLENDALE BLVD.
LOS ANGELES, CA 90026

CORPS OF ENGINEERS SPECS

COMPOSEAL 40 meets the Corps of Engineering specifications for PVC plastic flexible shower pan membrane as specified in para 5.8.3.2 15 pl-18.

COMPOSEAL 40 further meets the requirements of FHA Publication 4900.1 Appendix D, Chapter 615-5 per Corps of Engineers CE 300.01, for hydrostatic pressure, alkali, micro-organism, indentation and folding resistance.

The testing on **COMPOSEAL 40** was carried out as follows:

- (1) United States Testing Co., Inc. reports #LA 62554, 9/24/86; #LA 21280, 9/28/82; and #LA 20612, 4/26/82.
- (2) Smith-Emery Co., File #2747, 4/27/82.
- (3) Our research labs in Virginia.

The results of the tests specified by the Corps of Engineers are as follows:

<u>5.8.3.2</u>	<u>Standard</u>	<u>COMPOSEAL 40</u>	<u>Testing done</u>
a. ASTM D638			
Ultimate tensile strength	2600 psi	2609 psi	(1) *
Ultimate elongation (before breaking)	398%	398%	(1) *
b. ASTM D1004			
Tear strength	300lbs	310 lbs	(1)
c. ASTM D568			
Flammability	non-burning	non-burning	(3)
d. ASTM E96	0.008	0.008	(2)

*ASTM D412 test procedure was used here in accordance with the ASTM D4551 overall revised standard for flexible PVC membrane, and is equivalent to D638 for these two tests.

e. Other Properties			
Specific Gravity	1.29 g/cm	1.29 g/cm	(3)
PVC Solvent	weldable	weldable	(2)
Cold Crack	-53° F	-53° F	(1)
Dimensional Stability	-2.5 %	-2.5 %	(1)
f. ASTM D2240			
Durometer Hardness (Shore A)	89	89	(1)

5.8.3.2 Non-plasticized Polyvinyl Chloride (PVC) Shower Pan Material.

Material shall consist of a plastic waterproofing membrane in sheet form, which can be shaped into a shower pan. The material shall be 0.040 inch minimum thickness of non-plasticized PVC. The material shall have the properties listed above and meet the typical values for the listed ASTM Test Methods.