

Exterior Wall Continuous Insulation

MINERAL WOOL

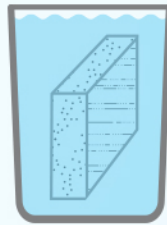
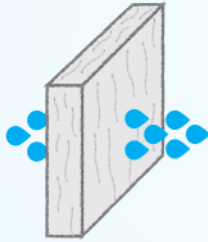
VS

POLYISO INSULATION

Mineral wool wall CI and polyiso use two different tests for water absorption despite similar applications.

MINERAL WOOL  
WALL CI USES A

**WATER  
VAPOR  
TEST**



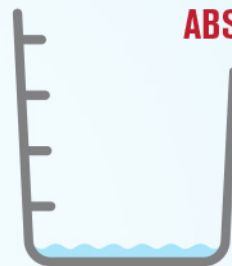
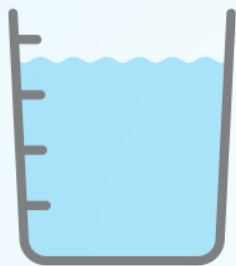
POLYISO USES A

**FULL  
SUBMERSION  
TEST**

When mineral wool wall CI and polyiso are both tested by full submersion, the results are clear.

MINERAL WOOL  
WALL CI

**ABSORBS UP TO  
78%**  
by weight



POLYISO

**ABSORBS LESS THAN  
4%**  
by weight

MINERAL WOOL  
WALL CI

**TAKES  
3-7  
DAYS TO DRY**



POLYISO  
DRYS WITHIN

**24  
HOURS**

When samples were submerged a second time after drying, the results were eye opening.



REWETTING MINERAL WOOL WALL CI  
INCREASED WATER ABSORPTION

**130-190%**



REWETTING POLYISO CAUSED

**NO CHANGE  
TO WATER ABSORPTION**

REWETTING MINERAL WOOL WALL CI  
EXTENDED DRYING TIMES UP TO

**4 DAYS**



REWETTING POLYISO CAUSED

**NO CHANGE  
TO DRYING TIMES**



IN RIGOROUS LAB TESTING

**ENERGYSHIELD HARDLY ABSORBS ANY WATER,  
AND IT DOESN'T TAKE DAYS TO DRY.**

SEE THE WHITE PAPER FOR MORE INFO.



\*When compared using the same test standards (ASTM C209), the water resistive characteristics of polyiso and mineral wool wall CI can be more accurately compared. Standard testing for mineral wool (ASTM C1104) exposes tests specimens to water vapor.

Based on the white paper, *Mineral Wool and Polyisocyanurate Insulation: A Comparative Study of Water Absorption, Drying and Rewetting* by M. Steven Doggett, Ph.D, Principal Scientist, Built Environments, Inc.