

**R&D LABORATORY**  
**Evaluation of correspondence to the UNI EN 12524 standard.**

**Samples:** LITEST1 Quartzite / Slate / Sandstone



Test n.: 201809LAB001726

**STANDARD: UNI EN 12524:2001**

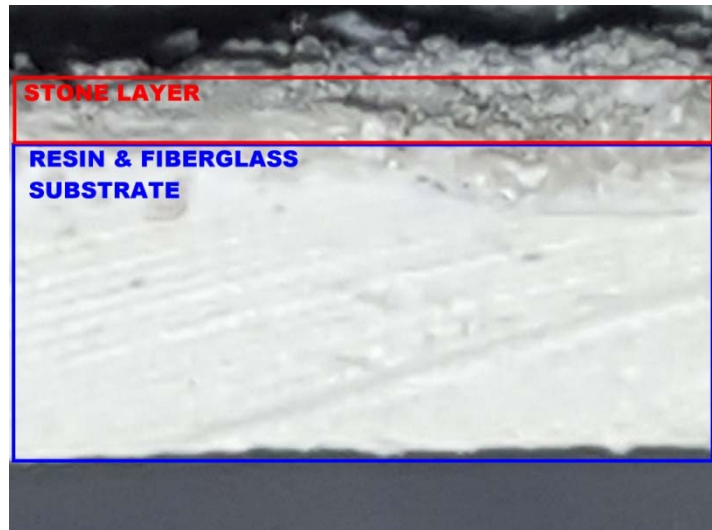
Building materials and products  
 Hygrothermal properties  
 Tabulated design values

**Specimens examination and evaluations.**

The stone layer has a very low thickness, such that it can be considered irrelevant for the purposes of resistance to water vapor.

The stone layer is structurally glued to a substrate composed of polyester and / or epoxy-based resins, reinforced with fiberglass.

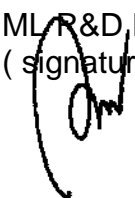
The substrate can be considered the only real barrier to the passage of steam.



**Tabulated design values for polyester and epoxy based resins.**

Density	Project thermal conductivity	Specific thermal capacity	Factor of resistance to water vapor	
$\rho$	$\lambda$	$C_p$	$\mu$	
kg/m <sup>3</sup>	W/(m · K)	J/(kg · K)	Dry field	Wet field
<b>1.200~1.400</b>	<b>0,19~0,20</b>	<b>1.200~1.400</b>	<b>10.000</b>	<b>10.000</b>

ML R&D DEP.  
 ( signature )



September 03, 2018

