

NANSULATE®

AWARD-WINNING ENERGY SAVING & ASSET PROTECTION COATINGS

Thermal Performance of Nansulate® in Buildings

The data below can be used to estimate thermal resistance added to a building envelope by use of three coats (recommended coverage) of Nansulate® Translucent Insulation Coatings.

The independent testing was performed by the Istituto Di Ricerche E Collaudi, Accreditations include: SINCERT 047A, SINAL 0019, Competent body: EMC 2004/108 CE.

Test standard used: UNI EN ISO Standard Test Method for Steady-State Thermal Performance of Building Assemblies

Test samples: 8 cm cement wall sections with plaster on both sides.

Wall Thickness = 4"

One sample is coated with the recommended 3 coats of Nansulate® clear coating, each coat applied between 3-5 wet mils (76-127 microns) in thickness.

Time span of test 72 hours

Measured area 1 square meter (10.76 square feet)

	Uncoated Wall	Nansulate® Coated Wall	Difference
Thermal Flow through measured area	32.0030 watts	20.8605 watts	-11.1425 watts 34.8% difference
Coefficient of thermal transmittance (U value)	1.6179 W/m ² K	1.2544 W/m ² K	-0.3635 W/m ² K 22.47% difference
Thermal Resistance 1/U	0.6181 m ² *k*w	0.7972 m ² *k*w	0.1791 28.8% difference

The thermal flow through the wall section measured in watts was decreased by 34.8% by use of Nansulate® coating.

The coefficient of thermal transmittance (also known as U value) of the wall was decreased by 22.47% by use of Nansulate® coating.

The thermal resistance (1/U) of the wall section in the test was increased 28.8% by use of Nansulate® coating.