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Scienza e Tecnologia dei Materiali

PROT. 354/09 DICATR

DECLARATION

CUSTOMER: SAME s.r.l.

PRODUCT: Thermal-acoustic insulating material for floor application THERMOLIVING3B

SUBJECT: Analysis of durability

Description of test:

The material THERMOLIVING3B has been tested in compression following a non standard method, as subsequently described:

Several flat samples (area=1m²) have been loaded concrete slabs equally distributed with total load equal to 400Kg and 700Kg. The compression strain of the insulating product THERMOLIVING3B has been measured by means of mechanical gauges whose precision is up to 0,01 mm. Tests have been carried out for 250 days at room conditions (no moisture control).

Test results obtained during this period have been used with the aim to develop a model regarding the material behaviour, which allows an estimation of the product functional life under working conditions.

RESULTS:

- THERMOLIVING3B loaded with 400Kg: Estimated functional life > 10 years
- THERMOLIVING3B loaded with 700Kg: Estimated functional life = 10 years

Moreover, after the removal of the 700Kg concrete slab, after 1000 days, the sample of THERMOLIVING3B has not shown any significant thickness variation with regards to the initial one.

Terni, 16/07/2009

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