



ISOLMANT KIT SCALE

STAIRWELL INSULATION

Tailor-made kit for impact sound insulation in stairwells


WHAT IS ISOLMANT KIT SCALE?

Isolmant Kit Scale is a resilient acoustic layer specifically designed for acoustically insulating stairwells. It is made from IsolTile Classic sheets cut to standard sizes for risers, treads and intermediate shelves, to be trimmed on site to adapt them to the specific surface. The sheets are glued on any support, and the covering material is glued on them. This KIT also contains all the accessories such as the junction band to connect Isolmant sheets and the side band to disjoint the staircase from the stairwell, indispensable for completing the acoustic insulation.

SPECIFIC APPLICATIONS

1. INSTALLING UNDER THE FLOORING THAT COVERS THE STAIRCASE



 All our products with the “**Guaranteed Green Planet**” logo are compliant with the sustainability criteria of the most important environmental protocols and certified according to the major national and international standards.



GREEN FEATURES OF ISOLMANT KIT SCALE

- **Volatile Organic Compounds free** (VOC A+)
- **Environmentally friendly production.**
- **This product contributes to achieve credits** for the environmental certification of a building according to **LEED** or **ITACA** standards.
- This product can be disposed of according to **EWC n. 170604**.

This product complies with the requirements defined by Italian CAM Edilizia for acoustic and thermal insulation materials regarding the percentage of recycled material and the absence of hazardous substances.

Green Planet is our sustainable development protocol that includes all our commitments to increase process, environmental, social and corporate responsibility.

A set of sustainable actions, goals and behaviors in agreement with our mission, our ethical choices and the **Sustainable Development Goals from 2030 Agenda**.

PRODUCT AND PRODUCTION
PROCESS SUSTAINABILITY

ENVIRONMENTAL
SUSTAINABILITY

CORPORATE
RESPONSIBILITY

SOCIAL
RESPONSIBILITY

Find out more
at [Isolmant.com](https://www.isolmant.com)



ADVANTAGES

- It provides a significant increase in acoustic insulation against impact in case of renovation and new construction.
- This product can be used on iron stairs.
- Low thickness.

INSTALLATION ADVANTAGES

- Easy installation.
- Product supplied with accessories for correct installation.
- This product does not require any special glues to install.
- The treads and risers are already pre-cut; they only need to be trimmed.

ISOLMANT KIT SCALE > TECHNICAL SPECIFICATIONS

NOMINAL THICKNESS:	2 mm
THERMAL CONDUCTIVITY:	$\lambda = 0,037 \text{ W/mK}$
THERMAL RESISTANCE:	$R_t = 0,054 \text{ m}^2\text{K/W}$
EQUIVALENT AIR THICKNESS ISOLTILE CLASSIC:	$S_d < 40 \text{ m}$
COMPRESSIVE STRENGTH (CS):	127 kPa (0.5 mm deformation)
COMPRESSIVE STRENGTH(%):	deformation 10% at 96 kPa deformation 25% at 127 kPa deformation 40% at 229 kPa deformation 50% at 313 kPa
COMPRESSIVE CREEP:	> 50 kPa (0.5 mm of deformation)
DYNAMIC LOAD (DL):	200000 cycles (at 75 kPa)
CONFORMABILITY (PC):	> 1.5 mm
REACTION TO FIRE CLASS:	$C_{fl-s1}^{(3)}$
EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+ ⁽⁴⁾
CE MARKING:	Harmonised standards for CE marking are NOT currently available for acoustic insulation products. This means that Isolmant products are currently NOT subject to CE marking, nor to the drawing up of a DOP (declaration of performance) or DDP (declaration of performance). All Isolmant products are placed on the market in compliance with the regulations in force in the country of destination and with the necessary certifications to guarantee their use in dedicated applications.
SIZE:	Isolmant IsolTile Telo Pedata: h 33 x 125 cm Isolmant IsolTile Telo Alzata: h 20 x 125 cm Isolmant IsolTile Telo Ripiano: h 50 x 125 cm Isolmant Fascia IsolTile: h 7.5 cm x 20 linear m Isolmant Fascia Laterale: h 18.5 cm x 25 linear m Isolmant Fascia Tagliabattiscopa: h 3 cm x 15 linear m
PACKAGE:	Isolmant IsolTile Telo Pedata: 22 elements Isolmant IsolTile Telo Alzata: 22 elements Isolmant IsolTile Telo Ripiano: 4 elements Isolmant Fascia IsolTile: 5 elements Isolmant Fascia Laterale: 1 elements Isolmant Fascia Tagliabattiscopa: 2 elements

(1) Isolmant laboratory test report No. 1102/2019

(2) Test report Ri.Cert. n. 11-3445-0 09

(3) Istituto Giordano test report no. 362272

(4) Istituto Giordano test report no. 376852

ITEM SPECIFICATIONS

Resilient elastodynamic acoustic layer with low thickness, desolidarising and reinforcing pre-cut in standard tread and riser sizes designed for stairwell applications. This product is made of HD Isolmant expanded polypropylene material which is coated on the upper and lower side with special Isolmant screen-printed, black Fibtec XP1 (black screen-printed and calendered polypropylene fabric for technical application). (Isolmant Kit Scale type). Nominal thickness 2 mm, density 77 kg/m³ thermal conductivity 0.037 W/mK.



PREPARING THE STAIRWELL

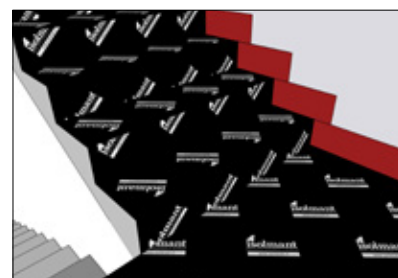
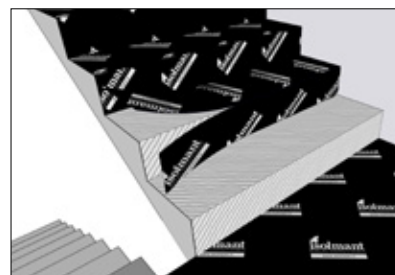
STEP 1

Check evenness, clean well and moisten the rough concrete surface of the staircase before applying the glue.

STEP 2

INSTALLING THE FIRST LAYER OF GLUE AND SHEETS

IsolTile is already supplied in sheets for step risers and treads. Trim the sheets of Isolmant Kit Scale and glue them to the stairwell. Isolmant Kit Scale does not require the use of special glues; it is recommended to use adhesives suitable for the laying surface and the finish that will be installed; the same adhesive is used both between the screed and Isolmant Kit Scale and between Isolmant Kit Scale and the finish (it is recommended to use a class C2E cementitious adhesive with ceramic and stone finishes and two-component epoxy-polyurethane adhesives with wooden flooring). Apply the first layer of glue in the proper quantity using a fine trowel knife (3/4 mm) following the instructions set out by the technical reference standards. This layer of glue can be used to level out any unevenness in the substrate. Isolmant Kit Scale should also be laid on the intermediate shelf between the different staircase half-pipes. For this application it is supplied in 125 cm x 50 cm sheets.



SEALING THE SHEETS

STEP 3

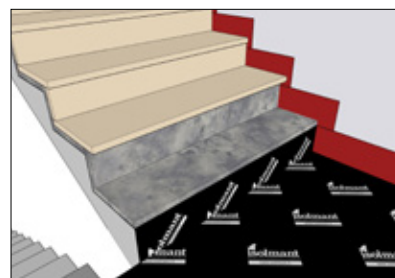
Seal the joint edges between the riser and tread with Fascia IsolTile; lay Isolmant Fascia Laterale on the vertical walls.

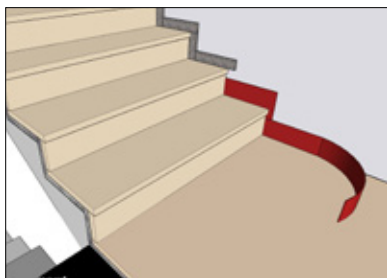
Seal the joint lines between the Fascia Laterale and Isolmant IsolTile laid on the riser and tread of the steps and on the intermediate landing with Fascia IsolTile.

STEP 4

INSTALLING THE STEPS

Place a layer of bedding mortar on the surface of Isolmant Kit Scale already laid and proceed to lay the marble. Alternatively, the flooring chosen for the steps can be glued directly onto Isolmant Kit Stairs, taking care to choose the most suitable type of adhesive.





INSTALLING THE SKIRTING BOARD

STEP 5

Only trim the excess part of Fascia Laterale after the final floor covering has been laid and grouted if necessary. Proceed to install the skirting board.



WARNINGS:

* This data sheet does not constitute a specification and, if it consists of several pages, please ensure that you have consulted the complete document. Although, these instructions are the result of our best expertise they are indicative. The user should establish whether the product is suitable for its intended application. The user will be also in charge of all the responsibility for the use of the product itself.

**The sound insulation values given in this technical data sheet are the result of laboratory tests or tests carried out on site: they cannot be considered a predictive value for every situation that may occur on site. Acoustic performance is closely linked to the specific conditions of each site.

***Caution: do not expose the product to direct sunlight and bad weather.



Via dell'Industria 12, Località Francolino 20074 Carpiano (Mi) Tel. +39 02 9885701 Fax +39 02 98855702
clienti@isolmant.it - www.isolmant.it - www.sistemapavimento.it - www.isolmant4you.it

Isolmant is a TECNASFALTI srl's registered trademark - © TECNASFALTI - All rights reserved - Copying, even partially, is forbidden - In force since October 2022 - This document supersedes and replaces all previous versions.