licata® FIP chemicals

5.0

licataTHERM®

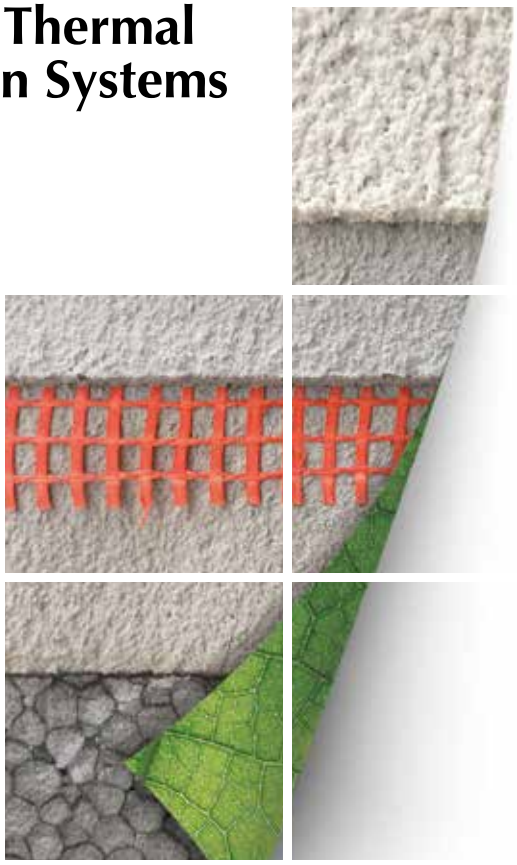
SISTEMI A CAPPOTTO
EAD 040083-00-0404

CSTB
DTA 7/18 - 1719_V1

BBA
CERTIFICATE 14/5120

Soluzioni per la facciata

External Thermal Insulation Systems



Guardians of the **past**
Creators of the **future**

licata THERM® SCUDO

Thermal Insulation Systems

Climate change, driven by rising global temperatures and the increasing intensity of natural phenomena, is manifesting through severe weather events such as tornadoes, floods, hailstorms etc..

In 2023 alone, Europe experienced around 10,000 significant hailstorms, a dramatic increase compared to the previous seven years, which had never seen more than 3,000 such events. Focusing solely on Italy, according to data provided by the European Severe Weather Database, 2023 saw 1,468 severe hailstorms: 663 of them, involving very large to giant hail, were the most destructive.

The construction sector has been heavily affected by this phenomenon, which has led to damage to external insulation systems, building finishing and cladding systems.
To reduce the increase in extreme weather events, it is essential to lower harmful emissions worldwide. Therefore, the European Union has established that improving the energy efficiency of the building stock is necessary.

This directive will bring benefits and advantages not only in terms of living comfort, but will also help increase the market value of buildings that comply with it.
Living comfort, in terms of quality of life inside buildings, is an important goal, and even more so is the protection of our homes, workplaces, and the spaces where we carry out our main activities

Home is, by nature, the place where we feel safe and protected, but it too, in turn, must be protected.
To ensure this, we have designed, tested, and certified an external thermal insulation system that not only provides optimal thermal insulation, both in summer and winter, but most importantly offers excellent resistance to weather conditions and significant impact forces.

licataTHERM® SCUDO

Thermal Insulation Systems

A traditional external thermal insulation system (ETICS) is vulnerable to natural phenomena that can cause damage such as cracks, splits, and fissures. These not only affect the aesthetic appearance of façades but also lead to more serious issues, including water infiltration, the formation of mold and lichens, and potentially even structural degradation that can compromise the integrity of the system, and, as a result, reduce its energy efficiency.

Choosing to install our ***licata*THERM SCUDO**, ensures greater protection of the building envelope and increased durability over time, resulting in reduced maintenance needs, economic benefits, and improved living comfort.

The **Raso Arm SCUDO**, our ready-to-use fiber-reinforced skim coat, offers excellent mechanical resistance thanks to its elasticity and flexibility. Thanks to these properties, and when used together with the **Besten Putz SCUDO**, the reinforced skim coat applied with just a single layer of fiberglass mesh, achieves an impact resistance value of 175 Joules on EPS insulation panels.

In terms of installation, the system can be applied without the need for a primer coat, offering additional advantages by reducing both construction costs and site time. The acrylic-siloxane fiber-reinforced coating **Besten Putz SCUDO**, not only ensures long-lasting color stability but also allows for the use of darker color options, expanding the range of design choices.

licataTHERM® SCUDO

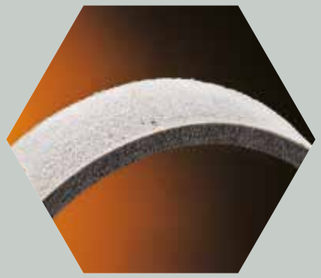
Thermal Insulation Systems

Fields of application

- Existing Buildings
- New Constructions

ADVANTAGES

- Impact Protection
- Weather Resistance
- Reduced Maintenance



Properties

- Elasticity
- Flexibility
- High mechanical resistance

Well-Being

- Energy efficiency
- Sustainability
- Living comfort

licataTHERM® SCUDO

Thermal Insulation Systems

Hailstorm on External
Thermal Insulation System

*licata*THERM SCUDO
highly resistant to
impacts and hails

licata THERM®

External Thermal Insulation Systems

SCUDO

Comfort and protection

175 Joule sistema SCUDO

IMPACT RESISTANT TO IMPACT RESISTANT TO

200 Joule sistema SCUDO

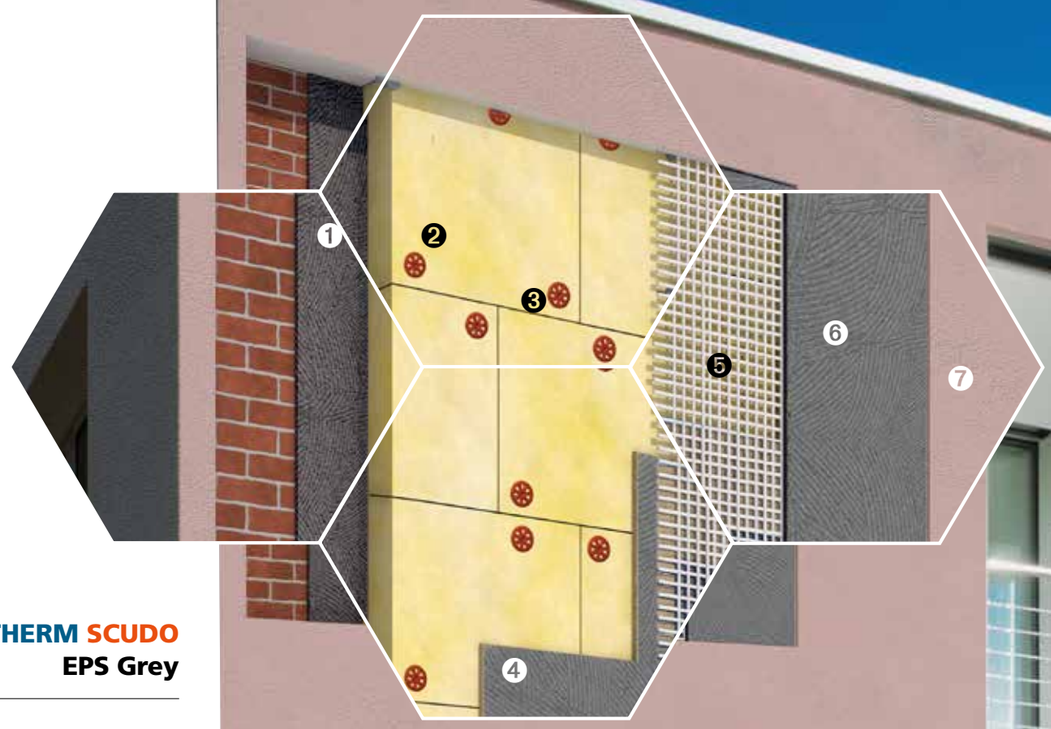
IMPACT RESISTANT TO IMPACT RESISTANT TO

www.licataspa.it

Guardians of the **past**
Creators of the **future**

licataTHERM® SCUDO

highly resistant to impacts and hails



	licataTHERM SCUDO ROCK WOOL		licataTHERM SCUDO EPS Grey
①	**Raso Top 800**	 Adhesive	**Raso Top 800**
②	licataTHERM ROCK WOOL	 Insulation Board	 licataTHERM EPS
③	**CS II 8** ad avvitamento Oppure **Thermodrive**	 Mechanica Fixing	**ECOTWIST** + Cap or Hammer in **CN 8 a percussione** or **Thermodrive**
④	**Raso Arm SCUDO**	 Skim Coat	**Raso Arm SCUDO**
⑤	licataTHERM **Rete 160**	 Mesh	licataTHERM **Rete 160**
⑥	**Raso Arm SCUDO**	Skim Coat	**Raso Arm SCUDO**
⑦	**BESTEN PUTZ SCUDO** acril-silossanico 1,5	 Coating	**BESTEN PUTZ SCUDO** acril-silossanico 1,5

licata® FIP chemicals

ISTITUTO GIORDANO
BEYOND CERTIFICATION

RAPPORTO DI PROVA N. 422194

Cliente
LICATA S.p.A.
Via Alcide De Gasperi, 155 - 92024 CANICATTÌ (AG) - Italia

Oggetto*
sistema di isolamento termico a cappotto per l'esterno denominato "LICATATHERM SCUDO EPS"

Attività
determinazione della resistenza all'impatto secondo la norma UNI EN 13497:2021

Risultati

Resistenza all'impatto	200 J

(*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 29 ottobre 2024

L'Amministratore Delegato
(Dott. NazarioGiordano)
Firmato digitalmente da NAZARIO GIORDANO

Commessa: 102430
Provenienza dell'oggetto: campionato e fornito dal cliente
Identificazione dell'oggetto in accettazione: 2024/2522 del 2 agosto 2024
Data dell'attività: 6 agosto 2024
Luogo dell'attività: Istituto Giordano S.p.A. - Strada Erbosa Uno, 72 - 47043 Gatteo (FC) - Italia

Indice

Il presente documento è composto da n. 4 pagine e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.
I risultati si riferiscono solo all'oggetto in esame, così come ricevuto, e sono validi solo nelle condizioni in cui l'attività è stata effettuata.
L'originale del presente documento è costituito da un documento informatico firmato digitalmente ai sensi della Legislazione Italiana applicabile.

Responsabile Tecnico di Prova:
Dott. Andrea Bruschi
Responsabile del Laboratorio di Security and Safety:
Dott. Andrea Bruschi
Compilatore: Dott. Marina Bonito

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Cap. Soc. € 1.500.000 i.v. - R.E.A. c/o C.C.I.A.A. (RN) 156766 - Registro Imprese Romagna (Forlì-Cesena e Rimini) e CF/P. IVA: n. 00 549 540 409

ISTITUTO GIORDANO
BEYOND CERTIFICATION

RAPPORTO DI PROVA N. 422193

Cliente
LICATA S.p.A.
Via Alcide De Gasperi, 155 - 92024 CANICATTÌ (AG) - Italia

Oggetto*
sistema di isolamento termico a cappotto per l'esterno denominato "LICATATHERM SCUDO MW"

Attività
determinazione della resistenza all'impatto secondo la norma UNI EN 13497:2021

Risultati

Resistenza all'impatto	175 J

(*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 29 ottobre 2024

L'Amministratore Delegato
(Dott. NazarioGiordano)
Firmato digitalmente da NAZARIO GIORDANO

Commessa: 102430
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Identificazione dell'oggetto in accettazione: 2024/2522 del 2 agosto 2024
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Indice

Il presente documento è composto da n. 5 pagine e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.
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licataTHERM®
Thermal Insulation Systems

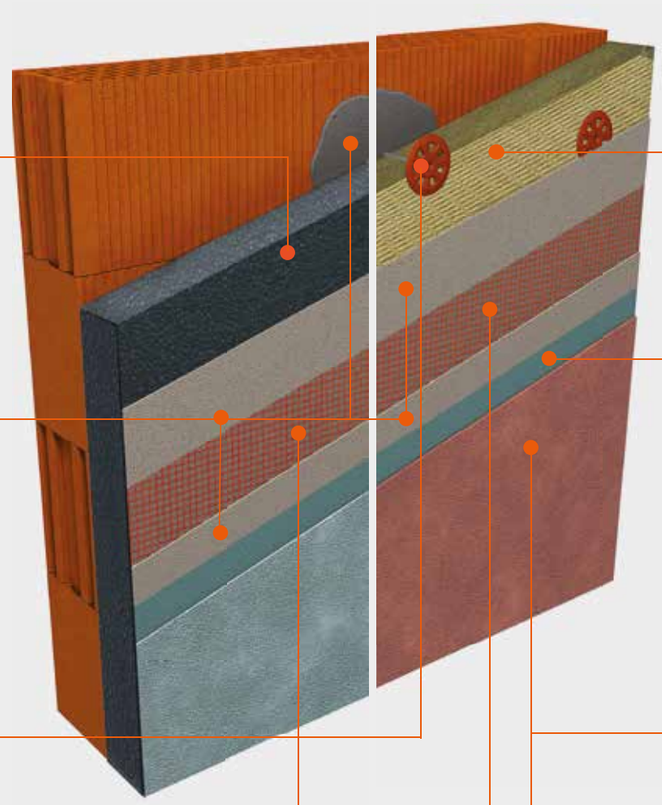
EPS grey

Thermal insulation system with graphite-enhanced expanded polystyrene (EPS) insulation board.
Solution for bonding and skimming the insulation boards using the **Raso Top 800** adhesive-skim coat.

Lana di Roccia

Thermal insulation system with rock wool insulation board.
Solution for bonding and skimming the insulation boards using the **Raso Top 800** adhesive skimcoat.

***licata*THERM® EPS Grey**
Graphite-enhanced expanded polystyrene thermal insulation board.



***licata*THERM® LANA DI ROCCIA**
High-density, non-combustible insulation board, suitable for thermal and acoustic external insulation systems.

RasoTop 800
Mineral powder adhesive-skim coat breathability and excellent masking for bonding and skimming of insulation board.

***licata*THERM® TASSELLI**
Mechanical fixings, either hammer-in or screw-in, for securing insulation boards.

***licata*THERM® rete 160**
Fiberglass mesh, pre-treated and alkali-resistant.

Siloxan LG
Primer based on siloxane copolymers and siliceous fillers, specifically formulated for exterior use, with high breathability and excellent masking properties.

Isolante LG
Universal, tintable primer, ready to use, with high covering power. Ideal as a fixative before applying any synthetic binder-based decorative coatings.

Siloxan Color
Siloxane-based ready-to-use paste coating, featuring high water repellency, excellent vapor permeability, and strong anti-mold and anti-algae properties. Ideal as a decorative and protective finish for façades, especially in **ETICS *licata*THERM**, certified according to **ETAG 004**.

Lerici
Decorative ready-to-use paste coating, based on acrylic resins iaqueous dispersion, resistant to mold and algae, with high water repellency.
Ideal for facade restoration cycles and use in **ETICS *licata*THERM**, certified under **ETAG 004**.

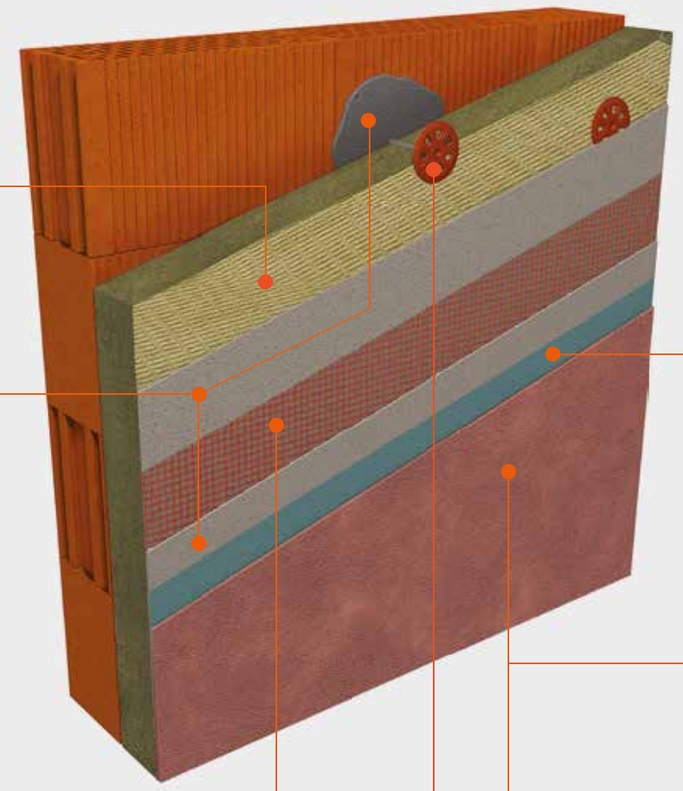
BestenPutz
Decorative ready-to-use paste coating, based on acrylic resins in, aqueous dispersion, resistant to mold and algae, with high water repellency.
Resistente ai funghi, alle alghe e agli agenti atmosferici grazie alle sue proprietà di idrorepellenza e permeabilità al vapore acqueo. Ideal for facade restoration cycles and use in **ETICS *licata*THERM** certified under **ETAG 004**.

licataTHERM®
Thermal Insulation Systems

Bio

Thermal insulation system with rock wool insulation board, completely non-combustible and with excellent breathability.
Solution for bonding and skimming the insulation boards using the eco-friendly adhesive-skim coat RasoTop Bio.

***licata*THERM® LANA DI ROCCIA**
Non-combustible panel designed for per external thermal insulation systems.



RasoTop Bio
Fiber-reinforced mineral adhesive-skim coat, based on natural hydraulic lime (NHL 5), certified according to **UNI EN 459-1**. Its high breathability and excellent adhesion properties make it ideal for the application of eco-friendly thermal insulation systems.

***licata*THERM® TASSELLI**
Hammer-in and screw-in anchors for the mechanical fastening of insulation boards.

***licata*THERM® rete 160**
alkali-resistant, pre-treated fiberglass mesh.

Siloxan LG
Primer based on siloxane copolymers and siliceous fillers, specifically formulated for exterior use.
Provides high breathability and excellent surface coverage.

Siloxan Color
Ready-to-use siloxane-based paste coating with high water repellency and excellent vapor permeability, featuring strong anti-mold and anti-algae properties.
Ideal as a decorative and protective finish for façades and **ETICS *licata*THERM**, certified according to **ETAG 004**.

BestenPutz
Ready-to-use decorative wall coating, based on acrylic-siloxane and siloxane resins in aqueous dispersion.
Resistant to fungi, algae, and atmospheric agents thanks to its water-repellent and vapor-permeable properties.
Ideal for the finishing and protection of **ETICS *licata*THERM** and certified according to **ETAG 004**.

licataTHERM®
Thermal Insulation Systems

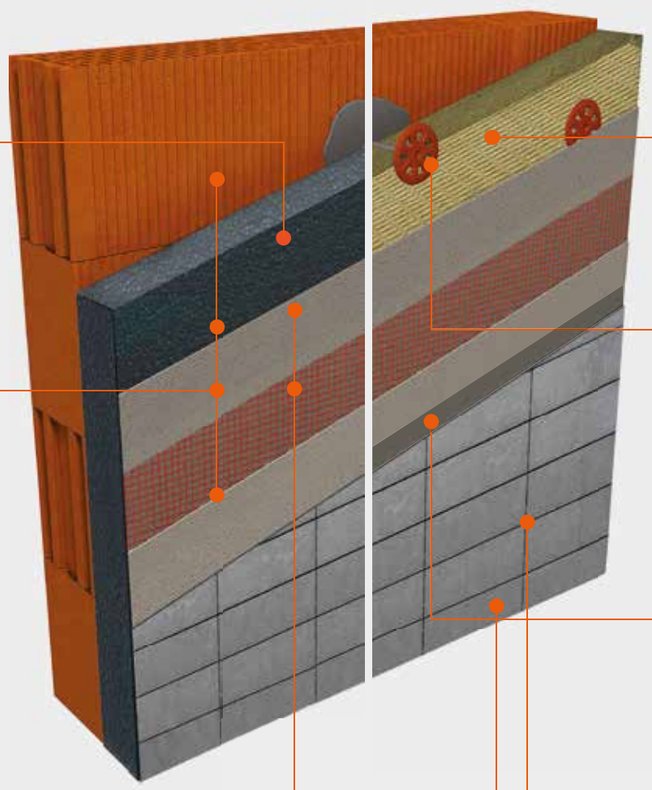
Strong EPS

External thermal insulation system, suitable for the surface installation of stone or ceramic cladding, featuring a graphite-enhanced expanded polystyrene insulation board.

Strong Lana di Roccia

External thermal insulation system, idoneo suitable for the surface installation of stone or ceramic cladding, featuring a rock wool insulation board.

licataTHERM® EPS
Graphite-enhanced expanded R polystyrene thermal insulation board.



licataTHERM® LANA DI ROCCIA
Rigid board made of lamellar mineral rock wool.

licataTHERM® TASSELLI Hammer-in or screw-in anchors for the mechanical fastening of insulation boards.

RasoTop 800
Mineral powder adhesive-skim coat for bonding and skimming insulation boards.

Super S1
High-performance deformable cementitiou, adhesive, classified as **C2TE-S1**, specifically designed for bonding ceramic tiles and natural stone materials.

licataTHERM® rete 222
Higher-density, alkali-resistant pre-treated fiberglass mesh with enhanced mechanical strength.

FugaTop
High-performance cementitious grout for filling joints between ceramic tiles and natural stone materials.

CERAMIC OR STONE CLADDING
After curing for at least 14 days (at +20°C ±1 and relative humidity 70% ±5),proceed with the installation of stone or ceramic cladding.

BESTEN PUTZ

Thick coverings with high aesthetic value

BESTEN PUTZ

The exceptional spreadability and extended open time allow for easy and quick application on large facade surfaces, also enabling easy resumption of subsequent phases.
Its particular granulometric curve allows for compact and uniform finishes, with a homogeneous result even in the presence of any imperfections of the underlying support.
The perfect balance between high water repellency and vapor permeability makes **BESTEN PUTZ** ideal as a decorative finishing layer in damp-proofing interventions and in highly breathable external thermal insulation systems.

It is characterized by high adhesion strength and excellent surface mechanical resistance.
Thanks to the presence of specific additives in its chemical composition, **BESTEN PUTZ** boasts high protection of the surface from the formation of surface damage, limiting mold and algae.
The special thixotropic agents used in the formulation make application extremely easy and fast, minimizing work waste and consumption.

BESTEN PUTZ acrylic

Ready-to-use decorative wall coating with a compact effect, based on acrylic resins in aqueous dispersion, resistant to mold and algae attack, characterized by high adhesion and water repellency.

Granulometry 1,2 _ 1,5 _ 2,0 mm

BESTEN PUTZ acrylic-siloxane

Ready-to-use decorative wall coating with a compact effect, based on acrylic-siloxane resins in aqueous dispersion, born from the combination of the two acrylic and siloxane technologies. The acrylic component guarantees good adhesion and excellent surface mechanical resistance, the siloxane component guarantees excellent water repellency and high vapor permeability.

Granulometry 1,2_1,5_2,0 mm

BESTEN PUTZ siloxane

Ready-to-use decorative wall coating with a compact effect, based on siloxane resins in aqueous dispersion. The perfect balance between high water repellency and vapor permeability makes **BESTEN PUTZ Silossanico** ideal as a decorative finishing layer in damp-proofing interventions and in highly breathable **ETICS** systems.

Granulometry 1,2_1,5_2,0 mm

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