RES

REsilient System for the Recognition of Energy Skills



BUONE PRATICHE PER IL RISPARMIO ENERGETICO

COMPETENZE PER LO SMART BUILDING
Roadmap verso l'agenda 2030

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Grant Agreement
n°101120907

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INTERVENTI SULL'INVOLUCRO

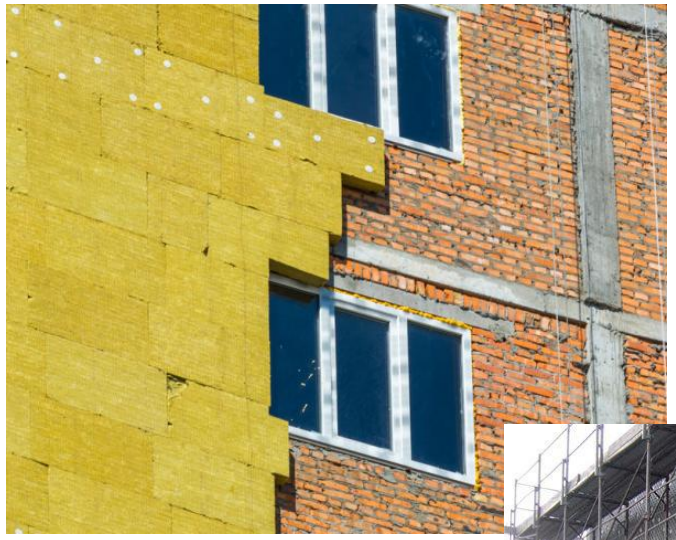
Isolamento termico delle strutture opache verticali



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Introduzione agli Interventi sull'Involucro





- **Obiettivo:** migliorare l'efficienza energetica e il comfort abitativo.
- **Metodo:** applicare un rivestimento isolante sulle pareti esterne o interne dell'edificio**.**
- **Benefici:** riduzione dei ponti termici, controllo della condensa, mantenimento delle pareti interne a temperatura elevata.

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Tipi di Isolamento Termico

- **Cappotto con pareti ventilate**
- **Isolamento in intercapedine**
- **Isolamento termico a cappotto**
- **Isolamento dall'interno**

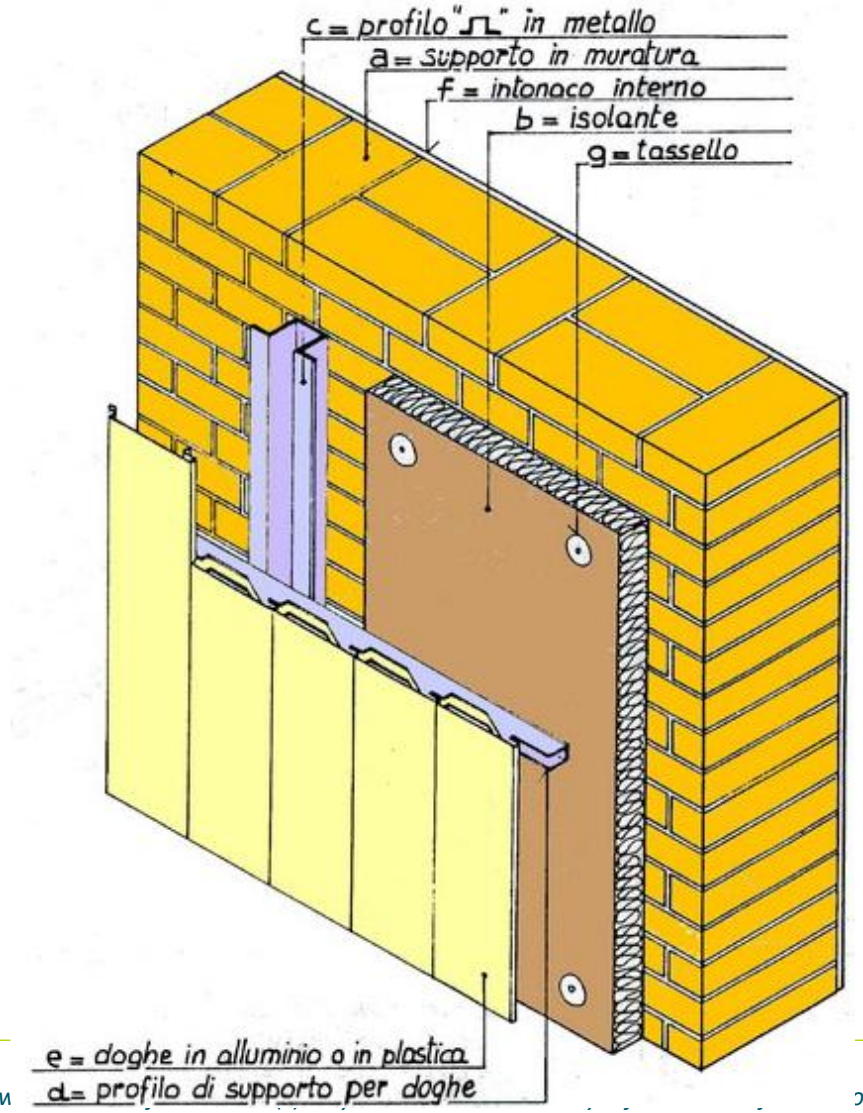
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Isolamento con Pareti Ventilate

Struttura a strati:

- **Strato isolante (pannelli semirigidi fissati alla facciata)**
- **Intercapedine ventilata (2-4 cm, per disperdere vapore)**
- **Rivestimento esterno (protezione dagli agenti atmosferici)**

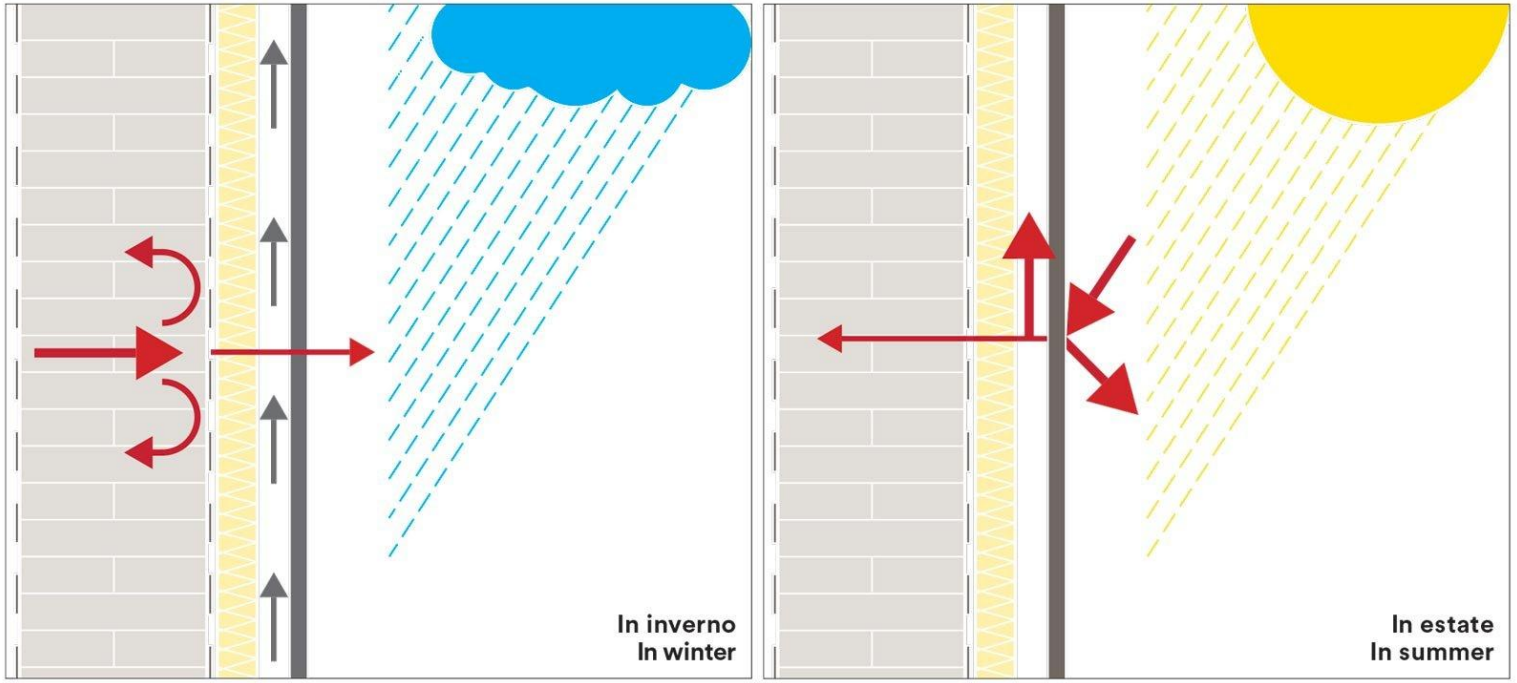


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Vantaggi

- Controllo dei ponti termici
- Riduzione del carico termico estivo
- Risparmi energetici
- Miglior comfort

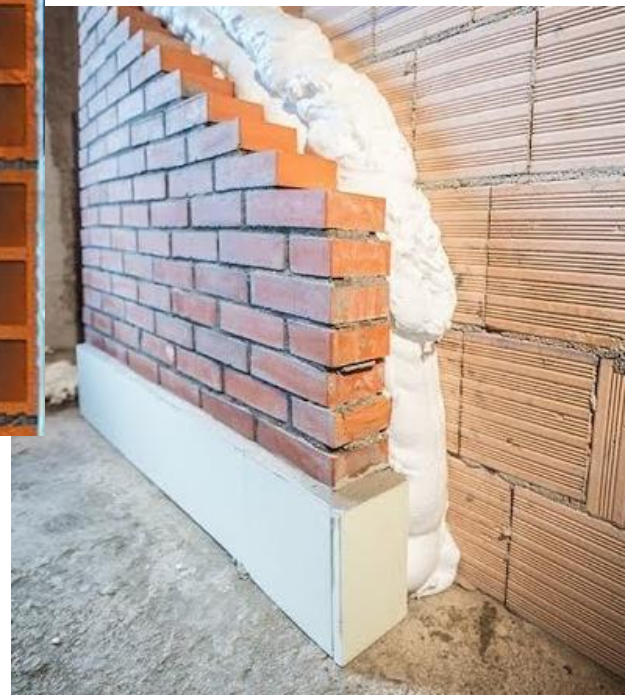


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Isolamento in Intercapedine



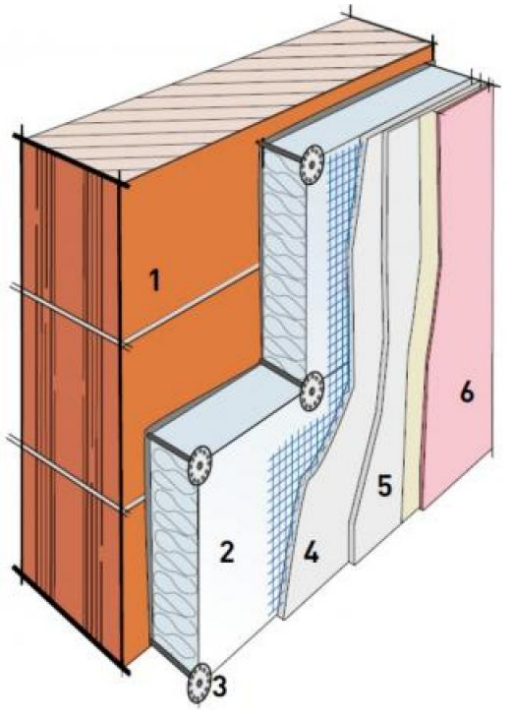


- **Tecnica:** riempimento dell'intercapedine tra due pareti con materiale isolante.
- **Materiali:** minerali espansi (perlite, vermiculite) o minerali fibrosi (lana di roccia, lana di vetro)
- **Metodo:** insufflaggio per riempire l'intercapedine in modo omogeneo
- **Vantaggi**: soluzione economica e poco invasiva, preserva l'aspetto esterno

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Isolamento Termico a Cappotto



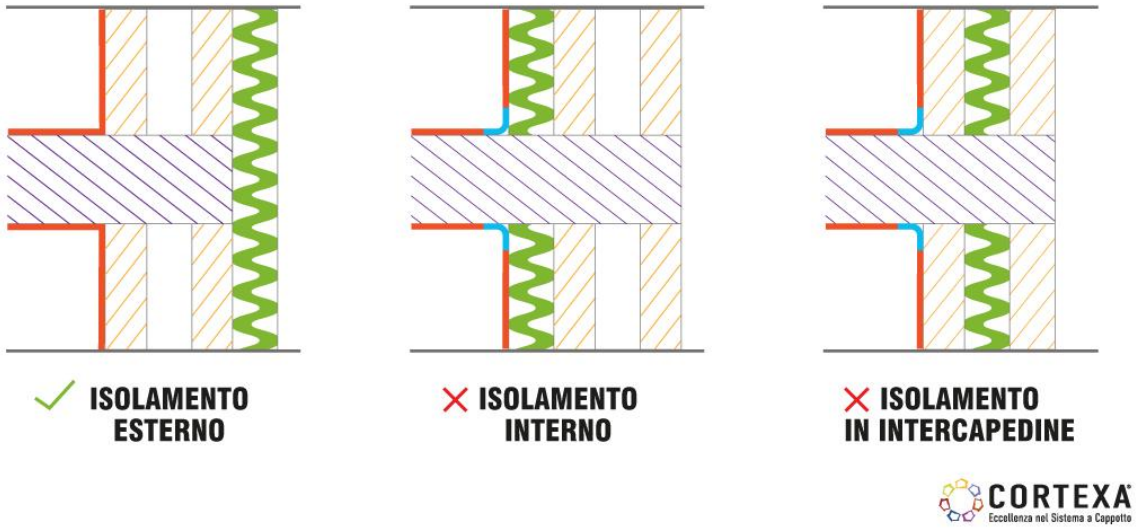
1. Muratura
2. Pannello termoisolante
3. Tasselli di fissaggio
4. Rasatura con rete
5. seconda rasatura
6. Finitura

- **Applicazione di pannelli isolanti esterni, rifiniti con intonaco.**
- **Procedura:**
  - **Preparazione delle superfici**
  - **Applicazione dei pannelli**
  - **Rifinitura con intonaco e rete in fibra di vetro**

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Vantaggi

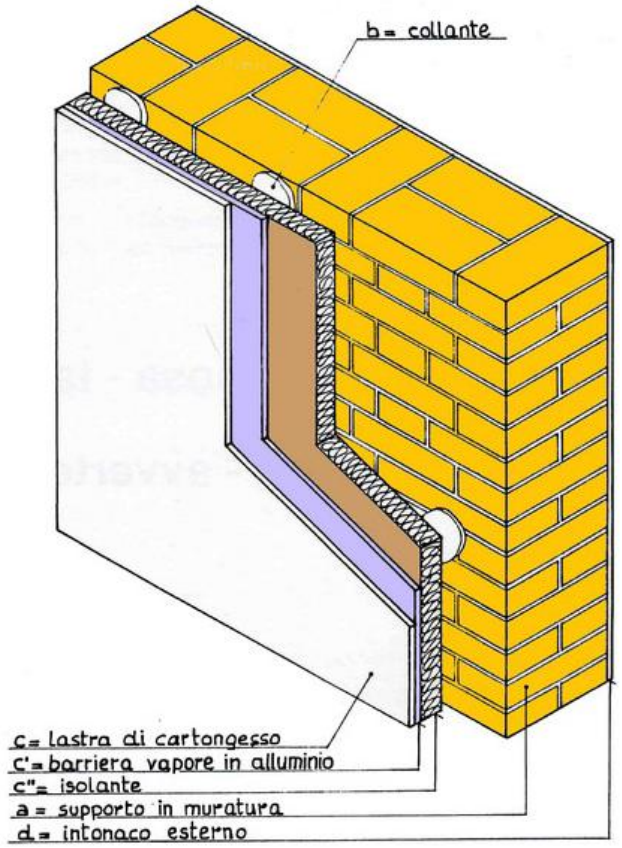


- **Eliminazione dei ponti termici**
- **Protezione delle pareti dagli agenti atmosferici**
- **Stabilità del comfort interno**

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Isolamento dall'Interno



- **Tecnica:** applicazione di pannelli isolanti con cartongesso
- **Utilità:** quando non è possibile intervenire dall'esterno.
- **Benefici:** riduce dispersioni termiche, migliora il comfort, ma meno efficace nell'eliminare i ponti termici.

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Tipi di Materiali Isolanti



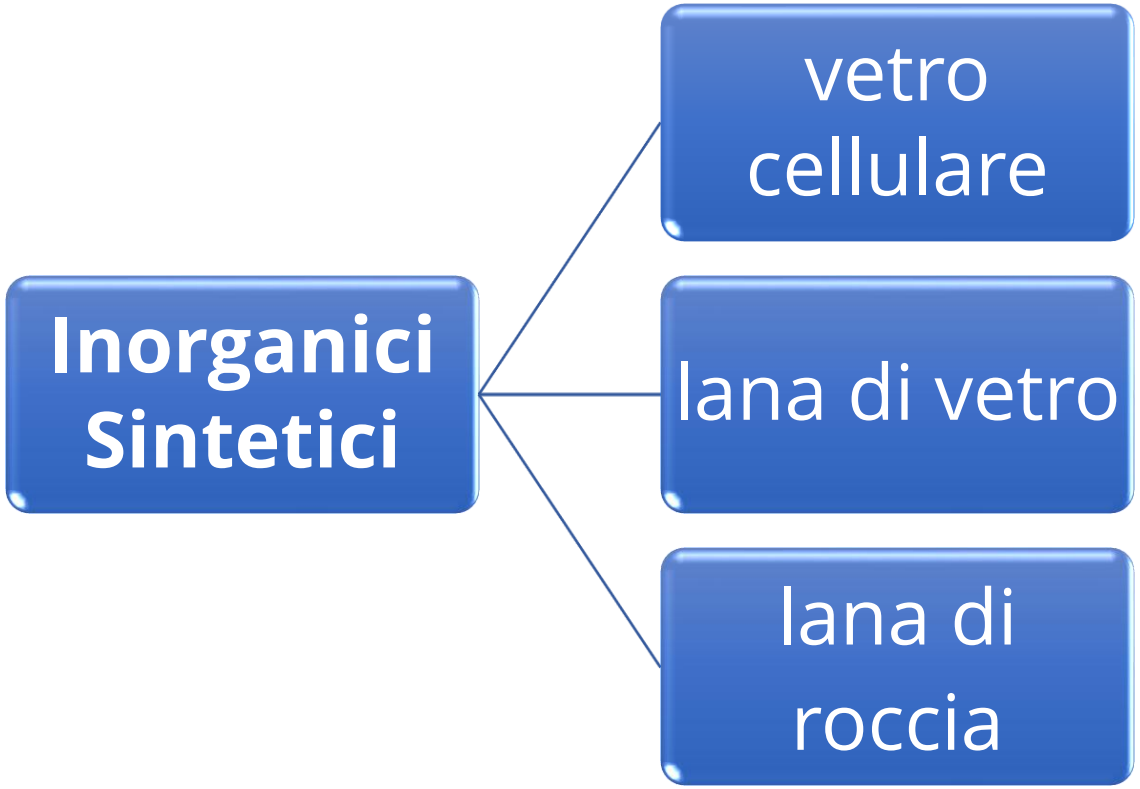


- **Inorganici Sintetici:** vetro cellulare, lana di vetro, lana di roccia.
- **Inorganici Naturali:** argilla espansa, vermiculite, perlite.
- **Organici Sintetici:** polistirene espanso, poliuretano.
- **Organici Naturali Vegetali e Animali:** sughero, legno, lana.

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Isolanti inorganici sintetici

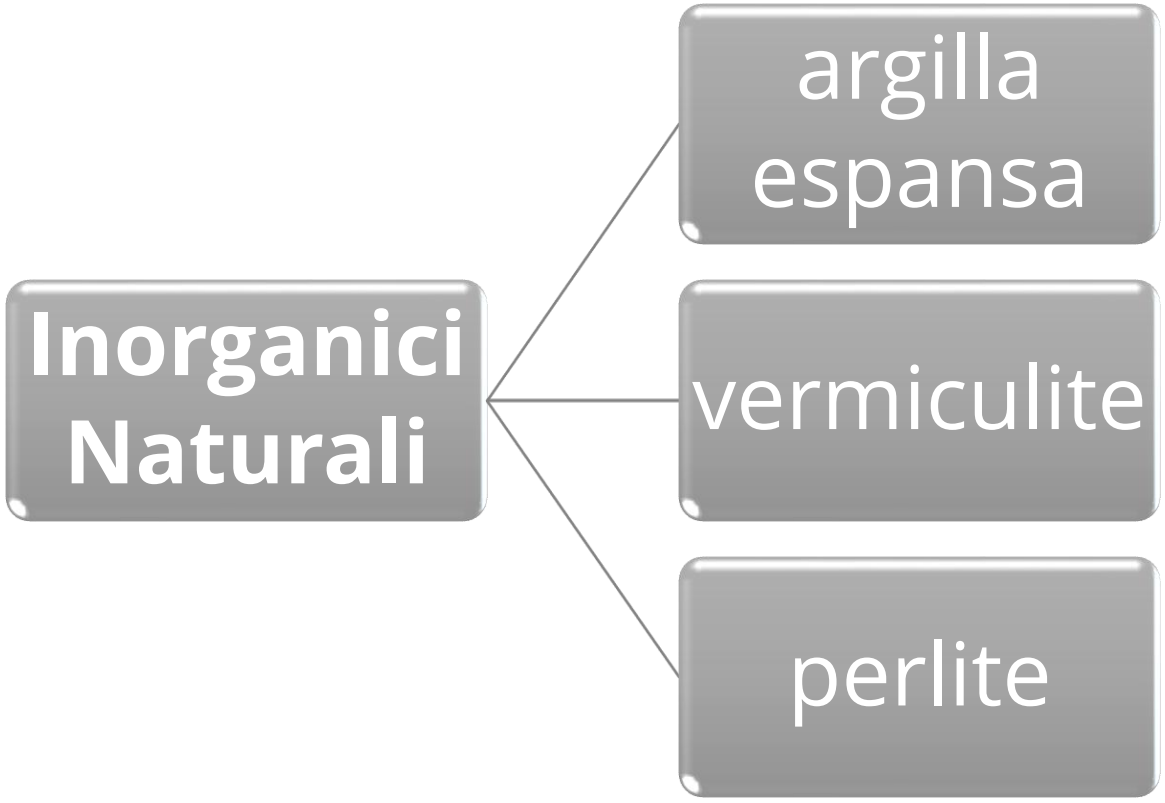


- **Ottima resistenza all'acqua e all'umidità**
- **Buona stabilità**
- **Resistenza ad urti e sollecitazioni**
- **Rapidità e semplicità di montaggio**
- **Buone capacità isolanti**

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Isolanti inorganici naturali

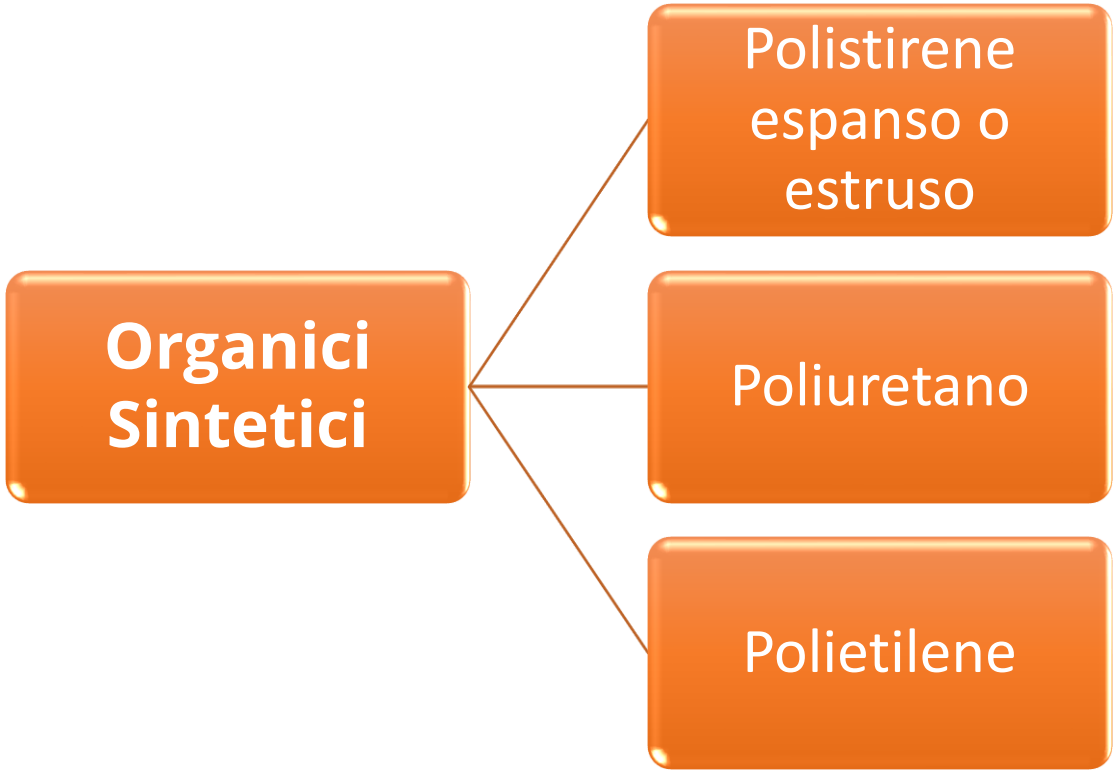


- **Ottima resistenza all'acqua e all'umidità**
- **Buone capacità isolanti**
- **Buon isolamento acustico**

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Isolanti organici sintetici

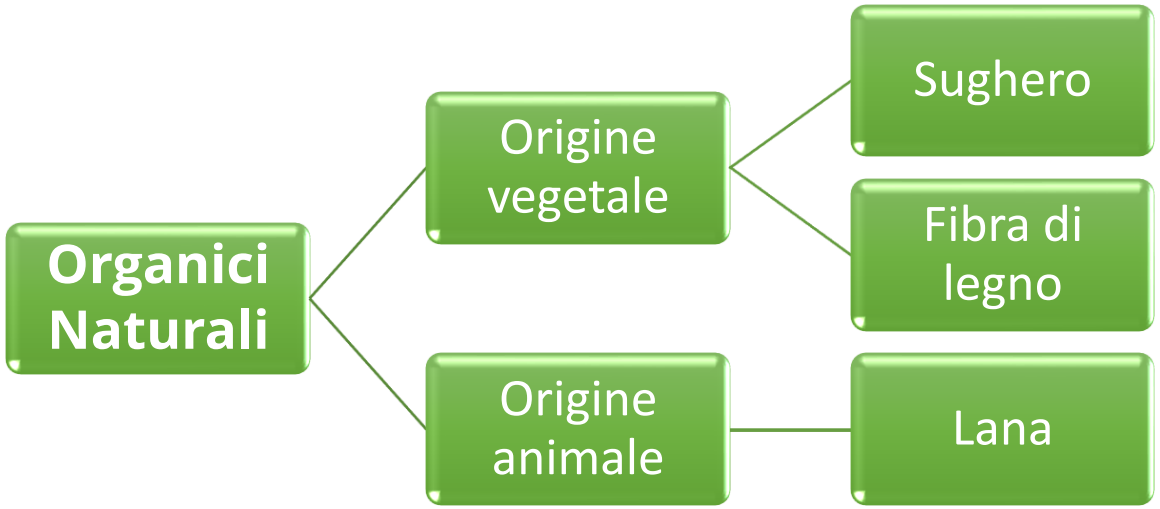


- **Ottime prestazioni isolanti**
- **Bassa inerzia termica**
- **Elevato impatto ambientale**

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Isolanti organici naturali



- **Minore capacità isolante ➡ maggiori spessori**
- **Ottima inerzia termica**
- **Maggiori rischi di deterioramento**
- **Basso impatto ambientale**

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