Tradical®
High-performance lime

Technical data sheet
v01 - July 2019

Tradical® THERMO Préfa

Formulated lime for Tradical® Hempcrete prefabrication

Definition
Tradical® Thermo Préfa is specially formulated for the prefabrication of insulating blocks, walls, floors or insulating sloping structures.
Tradical® Thermo Préfa is prepared by mixing with Chanvribat® hurds (certified Granulat Chanvre Bâtiment) and water.

Identification
Tradical® Thermo Préfa is a Class FL A 3.5 formulated lime according to standard NF EN 459.

Areas of use
Tradical® Thermo Préfa is used to make prefabricated insulating hempcrete blocks or panels:
- with thermal, moisture-regulating and acoustic qualities
- for insulating wall, insulating lining (interior and exterior), insulating roof and insulating screed applications
- brand new constructions or renovations of all kinds: houses, apartment blocks, tertiary sector and public buildings, etc.

→ POSSIBLE STRUCTURES

Tradical® Thermo Préfa + Chanvribat® can be used to make customised insulating blocks and panels for:
- **Walls**: For all types of load-bearing frames
- **Linings**: On interior and partition walls, over all types of mineral substrate: old, new, homogeneous, heterogeneous.
- **Screeds**: For all types of ground or upper storey floors
- **Roofs**: For all types of roof frames
- **Floors in unused roof space**

→ PREPARING THE STRUCTURES

- In compliance with the French Professional Rules and the Tradical® brochure.
- Conduit and pipe work
  - will be completed before starting to build structures with blocks made of Tradical® Thermo Préfa
  - will be integrated in advance in prefabricated Tradical® Thermo Préfa panels.

→ PREPARING THE PRODUCT AND PRODUCTION

- Drying time: between 15 and 30 min depending on the ambient temperature, for a product prepared and used on site.
- Use of standard concrete mixers and mixing plants
- Insulating blocks can be handled and palletised the next day
- Insulating panels, depending on their dimensions, can be raised after 48 hours

Lime + aggregate blend approved by the *Construire en Chanvre* association
The Construire en Chanvre association has approved the Chanvribat®+Tradical® Thermo blend as meeting the threshold performances measured in certified external laboratories, as required by the French Professional Rules.
Test reference details *(p.4 values)*
CRDA test no. 2015-05-02 report: BCB Tradical® THERMO+Chanvribat® wall formula dated 02/06/2015
CRDA test no. 2013-18 report: BCB Tradical® THERMO+Chanvribat® screed formula dated 10/07/2014
CRDA test no. 2015-05-02 report: BCB Tradical® THERMO+Chanvribat® roof formula dated 02/06/2015

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→ MIX PROPORTIONS

Application	Qty of water	Tradical® Thermo Préfa by weight	Chanvribat® hurds	Concrete mixed at	Mass density
Wall and lining	60 litres	36 kg	20 kg, i.e. approx. 200 l	180 kg/m³	280 kg/m³
Screed	80 litres	45 kg	20 kg, i.e. approx. 200 l	225 kg/m³	325 kg/m³
Roof and Floor in unused roof space	43 litres	18 kg	20 kg, i.e. approx. 200 l	90 kg/m³	190 kg/m³

→ IMPORTANT

Ambient conditions for structures built with insulating blocks made from Tradical® Thermo Préfa
Construction on site must take place at a temperature between +8°C and +30°C.

→ GENERAL INFORMATION

Qualifications
Only qualified persons with sound knowledge of hempcretes or persons who have passed training may use Tradical® Thermo Préfa.

Packaging and storage:
- Tradical® Thermo Préfa comes in 18 kg sacks or bigbags or can be delivered in bulk (25 T lorry).
- Tradical® Thermo Préfa can be stored for one year away from moisture.

Testing: under the conditions prescribed by standard NF EN 459.

Guarantee: within the scope of the company's civil liability insurance.
Manufacturer's civil liability, SMABTP contract: ALPHA-BAT Fabricants no. 512806 E 1004.000

Characteristics	WALL/LINING made of prefabricated blocks or panels	ROOF and UNUSED ROOF SPACE made of prefabricated blocks or panels	SCREED made of prefabricated blocks or panels
Mass density	280 kg/m³	190 kg/m³	325 kg/m³
Thermal conductivity	λ = 0.076 W/m.k	λ = 0.056 W/m.k	λ = 0.087 W/m.k
Compression strength	0.65 MPa (after 60 days) 0.69 MPa (after 90 days)	0.11 MPa (after 60 days) 0.11 MPa (after 90 days)	0.44 MPa (after 60 days) 0.47 MPa (after 90 days)
Elastic modulus	27.3 MPa (after 60 days) 38.5 MPa (after 90 days)	3.1 MPa (after 60 days) 3.3 MPa (after 90 days)	49.3 MPa (after 60 days) 39.6 MPa (after 90 days)
Setting time	Mechanical strength is achieved at 28 days and continues to improve at 60 and 90 days.		

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