



FORTEM LINTELS

DESCRIPTION

The only beam-type lintel in Romania with lattice reinforcement.

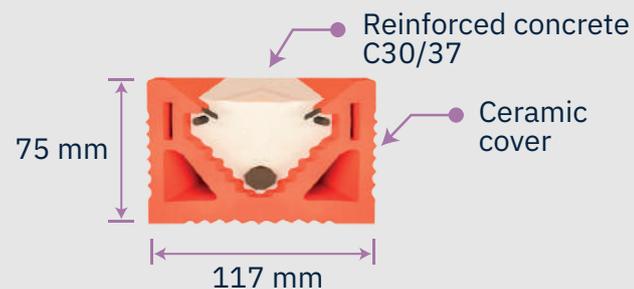
- Designed for the strength of the dwelling (concrete C30/37).
- High thermal insulation due to the air gaps in the ceramic coating.
- Easy to install and finish.
- Available in lengths from 1.0 m to 3.25 m.
- It is used for gap openings of up to 2.75 m, with bilateral support of at least 25 cm.

SCOPE

FORTEM prefabricated lintels are prefabricated elements used to take on the loads above door and window openings, ensuring the continuity of the masonry and significantly reducing the time required for execution.

COMPOSITION

- Ceramic cladding with gaps,
- Lattice reinforcement,
- Concrete C30/37,
- Section 117mm x 75mm.



TECHNICAL INFORMATION

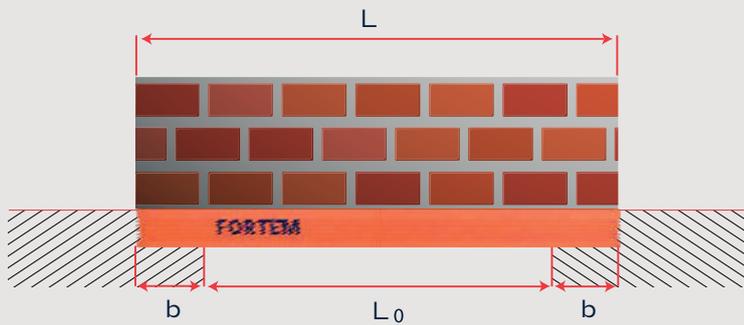
Length [mm]	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250
Allowable load* [kg/m]	36,7	15,43	8,05	4,52	3,1	1,9	1,4	1,04	1	0,97
Maximum deflection [mm]	2,7	3,3	3,5	3,4	3,4	5	6	7,1	7,8	10,9
Maximum gap opening [mm]	500	750	1000	1250	1500	1750	2000	2250	2500	2750

* Value determined by tests on a simple lintel, with a simple bilateral support of 250 mm and free opening.

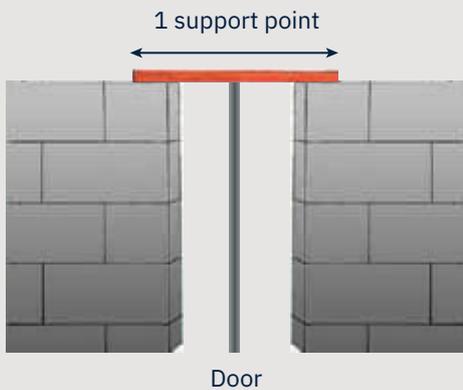
Water absorption [kg/m ² min]	0.4
Water vapour permeability	5/10
Freeze-thaw resistance	DA
Reinforcement corrosion resistance	0.58
Thermal conductivity [W/mK]	0.4
Concrete strength class	C30/37

INSTALLATION

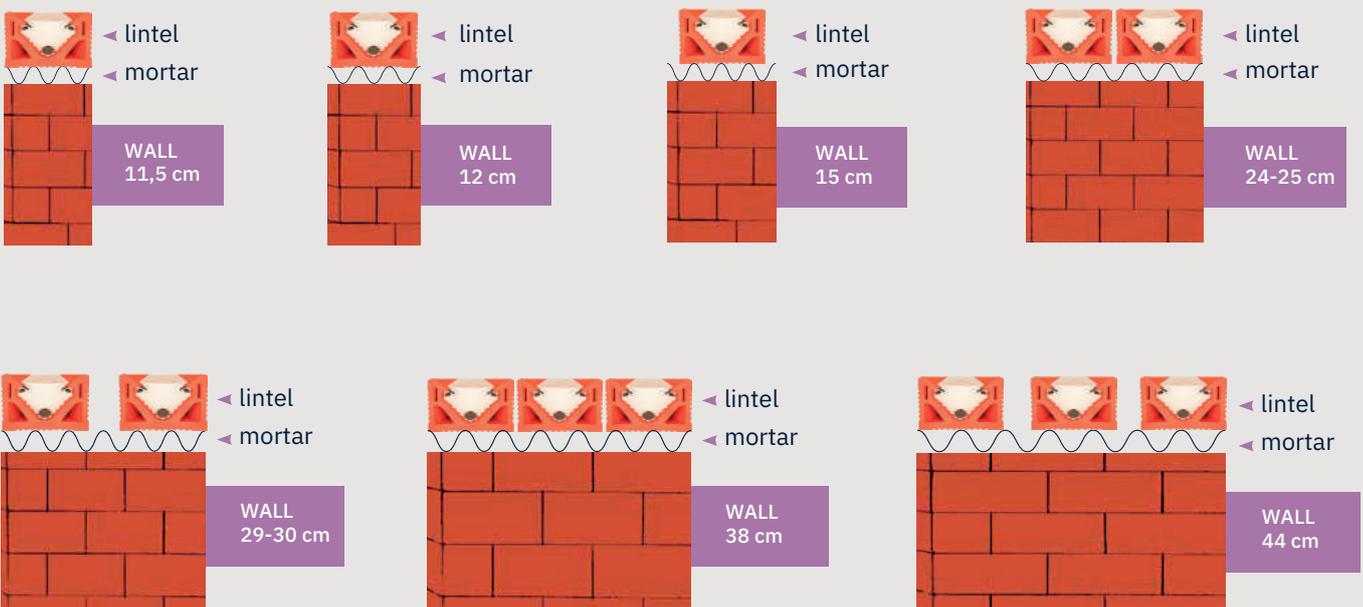
- The installation of FORTEM lintels is done in accordance with the specifications in the technical sheet of the mortar (min. M10),
- The lintels are laid on a bed of M10 mortar, with a thickness of 12-15 mm and with a support at both ends of min. 250 mm (b),



- For free lengths (L_0) greater than 1.0 m, intermediate temporary supports may be used at a maximum distance of 1.0 m from each other, until the embrasure built above the lintel is completely solidified,



- Depending on the thickness of the masonry, 1, 2 or 3 adjacent lintels can be used, thus increasing the load-bearing capacity,



CUTTING, DRILLING OR BREAKING OF LINTELS IS NOT ALLOWED!

PACKAGING AND STORAGE

Each pallet has 48 lintels, placed on two wooden supports and secured with 2 metal straps. During storage, the pallets must be protected from frost.

HEALTH AND SAFETY IN PROCESSING

During the installation of FORTEM lintels, the use of personal protective equipment (PPE) is mandatory:

- respiratory protection mask (for dust),
- safety glasses,
- work gloves,
- suitable clothing,
- protective boots with metal (steel) toes.

Lintels must be handled with care to avoid accidents caused by their weight or damage. It is recommended to use appropriate tools and mechanized means where appropriate.