



### **General Features**

- o ELC Autoclaved Aerated Concrete (AAC) Lintels are lightweight, fire resistant, fast and easy to install and provide lifelong superior thermal insulation.
- o ELC Lintels are steel reinforced E4 Grade Autoclaved Aerated Concrete elements. The interior steelwire reinforcement is covered with an anti-corrosion coating.
- o ELC Reinforced Lintel is produced in compliance with DIN 4223.

## Physical and design properties

		Properties	
		Class	
Specifications	Units	E4	Remarks
Dry Density	Kg/m³	$650 \pm 50$	
Aeration Method		Chemical Reaction	
Curing Process		Autoclaving	
Ave. Compressive Strength	N/mm²	5.0	
Thermal Conductivity	W/mK	0.18	
Acoustic Test (STC)	dB	50	
Elastic Modules	N/mm²	2250	
Design Load	KN/m³	7.2	

### Load Bearing & Non-Load Bearing Lintels

AAC-Load Bearing & Non- Load Bearing							
Lintel Type	Class	Length (mm)	Dimens: Thickness /Width	ion Height (mm)			
Lintel	E4	1000-3500	100-300	200, 250			

Clear Span (mm)	Minimum End Bearing (mm)	Height (mm)	Thickness/Width (mm)
900	150	200, 250	100, 150, 200, 250, and 300
901-2000	200	200, 250	100, 150, 200, 250, and 300
2001-3500	250	200, 250	200, 250, and 300

ELC Reinforced Lintels are used over openings in doors and windows as a system on Litecrete Masonry Components or load-bearing wall





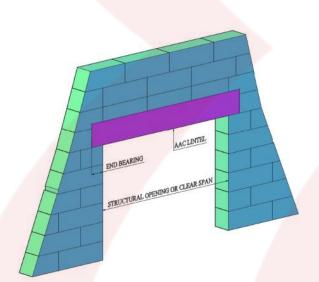




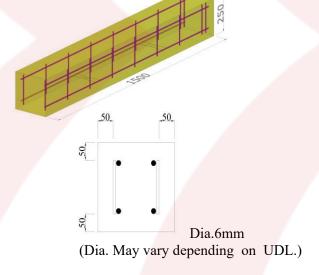
# **Design Considerations**

- Designed in order to comply with strength and serviceability requirements as specified by DIN4223.
- The lintels thickness and span will determine the allowable service load. The load (dead and live) must comply with the Local and Regional Building Codes.
- o Lintels can be supported by ELC AAC Masonry Blocks and Solid Blocks.
- ELC AAC Lintels are reinforced with two layers of high strength smooth bars FY = 520 N/mm<sup>2</sup> which are protected with an anti- corrosive coat.
- The longitudinal bars develop their tensile stress using mechanical anchorage provided by cross bars.

Perspective View (AAC Solid Lintel)



AAC Lintel Mesh details (Solid)











# **PRODUCT DATASHEET** AAC LINTELS

## **Method Statement**

Laying of ELC AAC Blocks with thin bed mortar (See Figure-1).

- o Apply 5mm bedding mortar on the top block at end (See Figure-2).
- Place ELC AAC Lintel on the top as shown in figure 3 (Maintain end bearingon both sides as per technical data sheet).
- o If there is no additional support, provide corbel beam or L-Angle as a support for the AAC Lintel on the existing column (see figure -4)
- Continue laying ELC AAC Blocks above the lintel as per block method statement (See Figure-5).

