

# EC Declaration of Performance



## DOP-LP-04

The performance of the **Lignacrete** block range in conformity with the declared values, when installed in accordance with manufacturer's instructions and relevant masonry codes of practice.

1.	<b>Name and address of the manufacturer</b>	Lignacite Ltd. High Street, Brandon, Suffolk IP27 0AX
2.	<b>Manufacturing plants:</b>	Brandon, Suffolk and Nazeing, Essex
3.	<b>Description of the product:</b>	Lignacrete (all grades) 7.3, 10.5, 17.5, 22.5N/mm <sup>2</sup> including Lignacrete PW blocks.
4.	<b>Intended use</b>	Aggregate masonry units for use in loadbearing and non-loadbearing walls, and for general use below ground.
5.	<b>Systems or systems of assessment and verification of consistency of performance</b>	2+
6.	<b>Name and address of notified certification body and factory production control certificate</b>	BSI Group, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP. The Factory Production Control certificate No. is 0086-CPD-599721.
7.	<b>Provisions to which the product conforms</b>	EN 771 Specification for Masonry Units - Part 3: Aggregate concrete masonry units (dense and light-weight aggregates).
8.	<b>Declared Performance</b>	Shown in Table 1

**Table 1 - Declared Performance**

Essential Characteristics	Performance declaration
Dimensional Tolerances:	Category : D1
Configuration:	Group 1 - solid units, Group 2 - cellular and hollow units
Mean Compressive Strength:	7.3, 10.4, 17.5, 22.5N/mm <sup>2</sup> 30N/mm <sup>2</sup> (Lignacrete PW block only)
Moisture movement:	<0.8mm/m
Shear bond strength:	Fixed value 0.15N/mm <sup>2</sup>
Flexural bond strength:	NPD
Reaction to fire:	Euroclass A1
Water absorption:	NPD
Water vapour diffusion coefficient:	Fixed value 5/15
Gross density:	Lignacrete 7.3, 10.4, 17.5N/mm <sup>2</sup> - 2000kg/m <sup>3</sup> Lignacrete 22.5N/mm <sup>2</sup> & Lignacrete PW blocks - 2100kg/m <sup>3</sup>
Thermal conductivity:	Lignacrete 7.3, 10.4, 17.5N/mm <sup>2</sup> : 1.17W/mK ( $\lambda_{10,dry}$ ) Lignacrete 22.5N & Lignacrete PW blocks - 1.28W/mK ( $\lambda_{10,dry}$ )
Durability against freeze-thaw:	Frost resistant - see Lignacrete Product Data
Dangerous substances:	No performance declared

The performance of **Lignacrete** blocks as described in point 3) is in conformity with the declared performance specified in Table 1. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer

Signed on behalf of  
Lignacite Ltd by: *Allan Eastwood*

Full name: Allan Eastwood

Position: Operations Director

Date: 15<sup>th</sup> March 2019