

# Declaration of Performance (DoP)

according to proclamation no. (EU) 305/2011 of March 9 2011

# HiCON®

HIGH PERFORMANCE CONCRETE

## DoP (Declaration of Performance)

DK: Ydeevnedeklaration - SE: Prestandadeklaration - NO: Ytelseserklæring

No. AE-001

1 Unique identification no. of the product:

ETA 17/0330 of 16-05-2017

2 Type of product:

Hi-con Balcony elements

3 Application:

Prefabricated balcony elements in Ultra High Performance Fibre Reinforced Concrete (UHPFRC)

4 Name and adress of producer:

[Hi-con A/S, Hjallerup Erhvervspark 1, 9320 Hjallerup, Danmark](#)

6 System for assessment and evaluation:

6b. European Assessment Document: EAD 010003-00-0301

European Technical Assessment: ETA 17/0330 af 16-05-2017

Notification at: 473 - Hi-con A/S, Hjallerup

System 2+

8 Danish Technological Institute Dancert A/S with no. NB 1073 has performed initial inspection of production facility and FPC (Factory Production Control) and subsequent continuous surveillance, assessment and evaluation of the production facility's own testing according to system 2+ and has issued certification no.:

1073-CPR-473-01

9 Declared performance:

Characteristics	Assesment of characteristic performance	Harmonised technical specifications
Compressive strength (cyl. 150x300mm)	min. 110 Mpa	ETA 17/0330 of 16-05-2017
Compressive stress-strain curve	min. 80% of compr. str. at 4‰	
Young's modulus	min. 42 Gpa	
Tensile and bending strength (3-point bending curve)	min. Class 5b	
Uniaxial tensile strength	min. 5 MPa	
Rebar anchorage length	10xdiameter for 6 and 8mm 10mm ≤ 20xdiameter ≤ 32mm	
Creep and shrinkage behaviour	creep factor 1.4 by loading at a minimum of 7 days and 0.8 after min. 28 days maturity	
Freeze/thaw resistance	$m_{56} < 10\text{g/m}^2$ RDM>95%	
Chloride ingress (on cracked beams)	$< 5 \times 10^{-14} \text{ m}^2/\text{s}$	
Carbonation depth	less than 1mm after 2 years	
Fibre distribution	min. 5 MPa	
Reaction to fire	A1	
Resistance to fire	NPA	
Risk of explosive spalling	NPA	
NPA (No Performance Assesed)		

10 Declaration

Performance of the product in accordance with item 1 and 2 corresponds to the declared performance in item 9.

Responsible for creating this declaration of performance is only the manufacturer referred to in point 4.

Signed on behalf of the manufacturer and in the name of the manufacturer by:

Benn Uhrenholt, Q&A manager

Hjallerup 18-03-2019