

i.design

EFFIX ARCA

Datasheet

Tested properties	Protocols	Results
Density	NF EN 12350-6	2270 ± 100 kg/m ³
Compressive strength	after 28 days on specimens 4x4x16 cm NF EN 196-1	> 115 MPa
Bending strength	after 28 days on specimens 4x4x16 cm NF EN 196-1	> 10 MPa
Tensile yield strength	after 28 days bending 4 points on undamaged specimens 7x7x28 cm	> 9 MPa softening behavior
Bending strength on 20 mm plates	Sample taken from 20mm plates ATEC 2/13-1566	> 8 MPa
Bending strength on 22 mm plates	Sample taken from 22mm plates ATEC 2/13-1566	> 10 MPa
Young's modulus	after 28 days*	>38 GPa
Water porosity	AFREM «Determination of bulk density and water porosity»	12.90%
Total shrinkage	NF P 15-433	about 1 mm/m
Freeze/thaw strength	NF P 18-425	conforming
Scaling strength	XP P 18-420	conforming
Portlandite content	Measured by thermogravimetry on ground mortar – value obtained by the difference in water loss between 400 and 550°C	2.10 %
Oxygen permeability	AFREM «Gas permeability test on hardened concrete»	10 ⁻¹⁷ m ²
Chloride ion diffusion	Tang-Nilson	6.6.10 ⁻¹³ m ² /s

*according to the protocol of the 'Bulletin of the Civil Engineering Laboratory No. 22 – NT 4263, p. 79-81 on cylindrical specimens 16x32 cm stored in demoulding water for 28 days.

The Technical Opinion 2/13-1566 shows the following experimental results - Wind load strength: report CSTB n° CLC 11-26036321 of 23/04/2012 and Impact strength: report CSTB n° CLC-12-26033803 of 17/01/2012

Commercial document with indicative data that shall not be binding on SOCLI.

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