

TECHNICAL DATA SHEET - BETON ZIG-ZAG Q12 EA

DESCRIPTION

Beton Zig-Zag spacer is used to ensure correct concrete cover in construction.

The spacers are made of high-strength concrete based on sulfate-resistant cement (CEM I 52.5 N-SR3/NA, low-alkali in accordance with EN 197-1) and are designed to withstand highly aggressive environmental conditions in compliance with current Danish requirements for infrastructure projects and other chemically exposed concrete structures.

The concrete spacer is suitable for horizontal reinforcement specially when using reinforcement on rolls. The zig-zag spacer has an embedded 1,6 mm galvanized wire. The narrow-rounded edge can advantageously be placed downwards when casting visible concrete. The broader edge can be turned downwards when casting on soft surface, eg. isolation



Test reports are available upon request.

PROPERTIES

- Produced in accordance with current Danish standards
- Complies with all requirements for concrete in extra aggressive environments
- Ensures correct concrete cover
- Compatible with all types of reinforcement
- Easy to install

AREAS OF APPLICATION

- Bridge construction
- Tunnels
- Harbor facilities
- Underground parking structures
- Foundations
- Other concrete structures in extra aggressive environments

ACCORDANCE

The product is manufactured in accordance with:

- EN 206
- DS/EN 1992-1-1 (Eurocode 2)
- DS/INF 135

TESTED IN ACCORDANCE WITH THE FOLLOWING STANDARDS

- DS/EN 480-11:2005
- DS/EN 12390-3:2019
- DS 423.36:1995
- DS 423.41-45:2002
- DS/EN 12390-9:2016 (de-icing salt)
- NT Build 492:1999

ENVIRONMENTAL CLASS (EN 206 / DS/EN 1992-1-1)

X0	No risk of corrosion
XC1-XC4	Carbonation caused by fluctuating humidity and drying conditions
XD1-XD3	Chloride exposure from road salt – high humidity and/or wet environments
XS1-XS3	Chloride ingress due to seawater – continuous immersion or exposure to splash zones
XF1-XF4	Exposure to frost/thaw conditions and chemical agents from soil and groundwater
XA1-XA3	Industrial zones exposed to aggressive chemical agents

Note: We reserve the right to make printing errors. The current version of data is always available at www.haucon.dk or can be requested by contacting our internal sales department. The current revision number is in the top left corner.

REGULATORY REQUIREMENTS

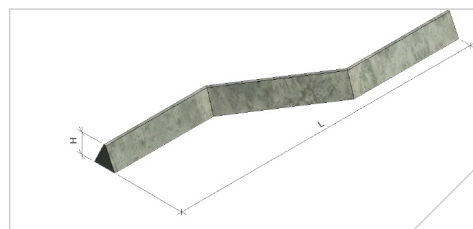
Properties	Value/description
Material	High-strength concrete
Cement	CEM I 52,5 N-SR3/NA ((low-alkali, sulfate-resistant)
Compressive Strength	≥ 50 MPa (C50/60)
Water-cement ratio	≤ 0,45
Density	App. 2.400 kg/m ³

TECHNICAL SPECIFICATIONS

W/C-ratio	< 0,38
Total Paste or Cement Content	> 300 kg/m ³
Silica Fume	k-value=2
Fly Ash	k-value=0,4
Micro Silica Content	≥ 5%
Fly Ash Content	20-30%
Plasticizer Content	≤ 2%
Air-entraining Agent	≤ 2%
Mean Compressive Strength (DS/EN 12390-3:2019)	68,8 MPa
Mean Density (DS/EN 12390-3:2019)	2060 kg/m ³
Air Content (DS/EN 480-11:2005)	11,6%
Specific Surface	44 mm ⁻¹
Spacing Factor	0,08 mm

GEOMETRY

Item no.	Description	Length (L) mm	Height (H) mm
1132215	Beton Zig-Zag Q12 EA 35	800	35
1132220	Beton Zig-Zag Q12 EA 40	800	40
1132225	Beton Zig-Zag Q12 EA 45	800	45
1132230	Beton Zig-Zag Q12 EA 50	800	50
1132235	Beton Zig-Zag Q12 EA 55	800	55
1132240	Beton Zig-Zag Q12 EA 60	800	60



Please Note:

The above items are in stock.

All designs of concrete spacers in HauCons product range can be produced in mixdesign Q12 EA also with fiber reinforcement.

The estimated production time is 4 weeks for non-stock items.

CE MARKING

Concrete spacers are not subject to a harmonized standard and does not have to be CE marked according to Construction Products Regulation No. 305-2011.