

SK CERTIFICATE
of conformity of the factory production control
SK12 – ZSV – 0181

In compliance with the act No. 133/2013 Coll. on construction products and on amendments of certain acts as amended by the act No. 91/2016 Coll. this certificate applies to the construction product

Concrete according to the STN EN 206
types according to the annex of this certificate,

which is to be used for structures cast in situ, precast structures, and structural precast products for buildings and civil engineering structures. The product is produced in compressive strength classes from C 8/10 to C 50/60 and fulfils criteria for ready-mixed concrete. Maximum transportation time is stated in initial type testing. Concrete plant is equipped for production at low air temperature according to STN EN 206 cl. 5.2.9

placed on the market under the name or trade mark of

IN VEST s.r.o.,
Areál Duslo, objekt č. 21-07, 927 03 Šaľa, Slovak Republic
CRN: 36 553 671

and produced in the manufacturing plant

IN VEST s.r.o., Jakuba Haška 1704, 949 01 Nitra, Slovak Republic

This certificate attests that all provisions concerning the assessment and verification of constancy of performance of essential characteristics of construction product declared by the producer (below only „assessment of characteristics“) and characteristics described in the Slovak technical standard

STN EN 206: 2015
STN EN 206/NA: 2015

under system II+ are applied and that

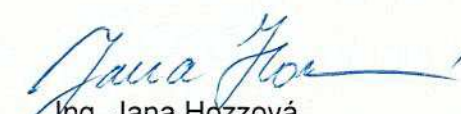
the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 18. 02. 2008 and will remain valid as long as neither the Slovak technical standards, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the authorized factory production control certification body.

The validity of the certificate may be confirmed by contacting e-mail address: qualiform@qualiform.sk.

Bratislava, 19. 04. 2016




Ing. Jana Hozzová
Head of the Authorized Body SK12

079243

Annex 3 of the SK certificate of the factory production control No. SK12 – ZSV – 0181

Producer: IN VEST s.r.o., Areál Duslo, objekt č. 21-07, 927 03 Šaľa, Slovak Republic

Manufacturing plant: IN VEST s.r.o., Jakuba Haška 1704, 949 01 Nitra, Slovak Republic

Every higher exposure class related to environmental actions XC..., XD..., given in concrete designation in this annex, includes every lower exposure class.

In exposure class XA... it concerns only the case of the same chemical characteristic according to Table 2 of STN EN 206.

In exposure class XF..., given in concrete designation in this annex, higher exposure class includes lower exposure class except class XF3. Exposure class XF3 includes only class XF1.

Listed consistence class, for example S..., C..., F..., SF..., may be adapted to lower class by reduction of water content (water/cement ratio), when following original concrete composition.

Serial number	Designation of concrete
1.	Concrete STN EN 206 C 8/10 – X0 (SK) – CI 0,2 – D _{max} 22 – S3
2.	Concrete STN EN 206 C 8/10 – X0 (SK) – CI 0,2 – D _{max} 22 – S4
3.	Concrete STN EN 206 C 8/10 – X0 (SK) – CI 0,4 – D _{max} 22 – S3
4.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,2 – D _{max} 16 – S3
5.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,2 – D _{max} 16 – S4
6.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,2 – D _{max} 22 – S3
7.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,2 – D _{max} 22 – S4
8.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,4 – D _{max} 22 – S3
9.	Concrete STN EN 206 C 12/15 – X0 (SK) – CI 0,2 – D _{max} 22 – S4
10.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 4 – S4
11.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 8 – S4
12.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 16 – S4
13.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 16 – S3
14.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 22 – S4
15.	Concrete STN EN 206 C 16/20 – X0 (SK) – CI 0,2 – D _{max} 22 – S3
16.	Concrete STN EN 206 C 16/20 – XC1 (SK) – CI 0,2 – D _{max} 22 – S3
17.	Concrete STN EN 206 C 20/25 – X0 (SK) – CI 0,2 – D _{max} 16 – S3
18.	Concrete STN EN 206 C 20/25 – XC1 (SK) – CI 0,2 – D _{max} 16 – S3
19.	Concrete STN EN 206 C 20/25 – XC1 (SK) – CI 0,2 – D _{max} 16 – S4
20.	Concrete STN EN 206 C 20/25 – XC1 (SK) – CI 0,2 – D _{max} 16 – S3 - medium strength development
21.	Concrete STN EN 206 C 20/25 – XC1 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8
22.	Concrete STN EN 206 C 20/25 – XC1 (SK) – CI 0,2 – D _{max} 22 – S3
23.	Concrete STN EN 206 C 20/25 – XC2 (SK) – CI 0,2 – D _{max} 16 – S3

Serial number	Designation of concrete
24.	Concrete STN EN 206 C 20/25 – XC2 (SK) – CI 0,2 – D _{max} 22 – S3
25.	Concrete STN EN 206 C 20/25 – XC2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8
26.	Concrete STN EN 206 C 25/30 – XC1 (SK) – CI 0,2 – D _{max} 16 – S3
27.	Concrete STN EN 206 C 25/30 – XC1 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8
28.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 16 – S3
29.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 16 – S4
30.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 22 – S3
31.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 16 – S3 - medium strength development
32.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8
33.	Concrete STN EN 206 C 25/30 – XC2 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8
34.	Concrete STN EN 206 C 25/30 – XC2, XA1 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
35.	Concrete STN EN 206 C 25/30 – XC2, XA2 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
36.	Concrete STN EN 206 C 25/30 – XC2, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
37.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 16 – S3
38.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 16 – S4
39.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 22 – S3
40.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8
41.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8
42.	Concrete STN EN 206 C 25/30 – XC3 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8
43.	Concrete STN EN 206 C 25/30 – XC3, XA1 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
44.	Concrete STN EN 206 C 25/30 – XC3, XA1 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
45.	Concrete STN EN 206 C 25/30 – XC3, XA1 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
46.	Concrete STN EN 206 C 25/30 – XC3, XA1 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack

Serial number	Designation of concrete
47.	Concrete STN EN 206 C 25/30 – XC3, XA2 (SK) – CI 0,2 – D _{max} 8 – S5 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
48.	Concrete STN EN 206 C 25/30 – XC3, XA2 (SK) – CI 0,2 – D _{max} 16 – SF2 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
49.	Concrete STN EN 206 C 25/30 – XC3, XA2 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
50.	Concrete STN EN 206 C25/30 – XC3, XF1, XA1 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
51.	Concrete STN EN 206 C25/30 – XC3, XF2, XA1 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
52.	Concrete STN EN 206 C25/30 – XC3, XF2, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
53.	Concrete STN EN 206 C25/30 – XC3, XF3, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
54.	Concrete STN EN 206 C25/30 – XC3, XF4, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
55.	Concrete STN EN 206 C 30/37 – XC4, XD2 (SK) – CI 0,2 – D _{max} 22 – S3
56.	Concrete STN EN 206 C 30/37 – XC4, XD2 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8
57.	Concrete STN EN 206 C 30/37 – XC2, XA1 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
58.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA1 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
59.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA1 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
60.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA2 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
61.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
62.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA2 (SK) – CI 0,2 – D _{max} 22 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
63.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA3 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack

Serial number	Designation of concrete
64.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
65.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA3 (SK) – CI 0,2 – D _{max} 16 – SF2 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
66.	Concrete STN EN 206 C 30/37 – XC4, XD2, XA3 (SK) – CI 0,1 – D _{max} 16 – SF2 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
67.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF1, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
68.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF2, XA2 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
69.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF2, XA2 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
70.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF3, XA1 (SK) – CI 0,2 – D _{max} 16 – S3 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
71.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF4, XA2 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
72.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF2, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
73.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
74.	Concrete STN EN 206 C 30/37 – XC4, XD2, XF4, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
75.	Concrete STN EN 206 C 35/45 – XC4, XD3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
76.	Concrete STN EN 206 C 35/45 – XC4, XD3, XF2, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
77.	Concrete STN EN 206 C 35/45 – XC4, XD3, XF2, XA3 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack - strength after 3 days min. 40,0 MPa

Serial number	Designation of concrete
78.	Concrete STN EN 206 C 35/45– XC4, XD3, XF2, XA3 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
79.	Concrete STN EN 206 C 35/45– XC4, XD3, XF3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
80.	Concrete STN EN 206 C 35/45– XC4, XD3, XF4, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
81.	Concrete STN EN 206 C 35/45– XC4, XD3, XF4, XA3 (SK) – CI 0,2 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - without resistance to carbonate attack
82.	Concrete STN EN 206 C 40/50 – XC4, XD3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
83.	Concrete STN EN 206 C 40/50 – XC4, XD3, XA3 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa
84.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF2, XA3 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
85.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF4, XA3 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
86.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF2, XA3 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa
87.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF4, XA3 (SK) – CI 0,1 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa
88.	Concrete STN EN 206 C 40/50 – XC4, XD3, XA3 (SK) – CI 0,1 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa
89.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF2, XA3 (SK) – CI 0,1 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
90.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF4, XA3 (SK) – CI 0,1 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
91.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF2, XA3 (SK) – CI 0,1 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa

Serial number	Designation of concrete
92.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF4, XA3 (SK) – CI 0,1 – D _{max} 22 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack - strength after 3 days min. 44,0 MPa
93.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF1, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
94.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF2, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
95.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
96.	Concrete STN EN 206 C 40/50 – XC4, XD3, XF4, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
97.	Concrete STN EN 206 C 45/55 – XC4, XD3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack
98.	Concrete STN EN 206 C 50/60 – XC4, XD3 (SK) – CI 0,2 – D _{max} 16 – SF2
99.	Concrete STN EN 206 C 50/60 – XC4, XD3, XA3 (SK) – CI 0,2 – D _{max} 16 – S4 - max. water penetration 50 mm according to STN EN 12390-8 - without resistance to sulphate attack

Annex 3 SK of the certificate of conformity of the factory production control No. SK12 – ZSV – 0181 of the 19. 01. 2017 cancels the Annex 2 of the 08. 09. 2016.

In Bratislava, 19. 01. 2017




 Ing. Jana Hozzová
 Head of the Authorized Body SK12