

DECLARATION OF PERFORMANCE

No. 006/01

1. Unique identification code of the product: Anchor Bolts ALP-PC, ALP-PS, ALP-P2, ALP-P2S
2. Product: Anchor bolt is installed to formwork before casting.
3. Intended use of the product: Anchor bolt transfers axial forces to concrete with reinforcement bar.
4. Manufacturing place: Anstar Oy
Villähde
5. Manufacturer: Anstar Oy
Erstantie 2
FI-15540 Villähde, Finland
6. Attestation of conformity system 2+
7. Identification number of the notified body 0416

KIWA Inspecta Sertifiointi Oy has made certification of the factory production control by an approved body based on initial inspection of factory and of factory production control as well as of continuous surveillance, assessment and approval of factory production control.
Factory production control certificate is 0416-CPR-7247-03.

8. Performance characteristics:

Performance characteristic	Performance	European technical specifications
Tolerances on geometrical data	EN 1090-2:2018, class 1	EN 1090-2:2018
Weldability	EN 10080, B500B	EN 10080 EN 17660-1
Thread	Hot rolled. $f_y = 640 \text{ MPa}$, $f_u = 800 \text{ MPa}$	EN 1993-1-8
Nut	Strength m8, m10 DIN 934 no treatment / hot dip galvanized HDG	EN 1090-2:2018 EN-ISO 1461
Washer	EN 10025, S355J2, no treatment / hot dip galvanized HDG	EN 10025, EN-ISO 1461
Fracture toughness	Fracture toughness 27J -20°C	EN 1993-1-10
Reaction to fire	Material classified: Class A1	EN 1090-1:2009+A1:2011
Release of cadmium	NPD	EN 1090-1:2009+A1:2011
Emission of radioactivity	NPD	EN 1090-1:2009+A1:2011
Design	Thread: Axial and shear force: EN 1992-4 Anchoring to concrete: EN 1992-1	EN 1992-4 EN 1992-1
Durability	Surface preparation grade P1. 1. No treatment, 2 hot dip galvanized	EN 1090-2:2018
Structural characteristics		
Load bearing capacity	Resistances: User manual: ALP-C Anchor bolts chapter 4.2	EN 1992-1 EN 1992-4
Fatigue strength	NPD	EN 1090-1:2009+A1:2011
Resistance to fire	NPD	EN 1090-1:2009+A1:2011
Manufacturing	According to component specification 006/01-2019 on execution class EXC2 and EXC3. Welding of reinforcement bars according to EN17660-1.	EN 1090-2:2018 EN 17660-1

9. This declaration of performance is given on sole responsibility of manufacturer named on chapter 5.

Villähde 28.02.2019



Tero Viljakainen
Managing director