

DECLARATION OF PERFORMANCE

No. 016/01

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|----|----------------------------|---|
| 1. | Product code: | Ties |
| 2. | Product-type: | AD, ADM, ADR and APA |
| 3. | Intended use/s: | Diagonal and beam ties are used to join sandwich-panel's concrete layers together through the insulation layer. |
| 4. | Manufacturing plant: | Anstar Oy
Villähde |
| 5. | Company: | Anstar Oy
Erstantie 2
FI-15540 Villähde, FINLAND |
| 6. | Verification of constancy: | 2+ |
| 7. | Notified body No: | 0416 |

Inspecta Sertifiointi Oy has performed (i) initial inspection of the manufacturing plant and factory product control and (ii) continuous surveillance, assessment and evaluation of factory production control and issued factory production control certificate 0416-CPR-7247-03.

8. –
9. Declared performances:

Basic characteristics	Performance	Harmonised technical specification
Tolerances on dimensions and shape	EN 1090-2	EN 1090-1:2009+A1:2011
Weld ability	SFS 1257, EN 10088 and EN 10800 steel according 1.4301, 1.4401 and A500K	EN 1090-1:2009+A1:2011
Fracture toughness	NPD	EN 1090-1:2009+A1:2011
Reaction to fire	ClassA1	EN 1090-1:2009+A1:2011
Release of cadmium and its compounds	NPD	EN 1090-1:2009+A1:2011
Emission of radioactivity	NPD	EN 1090-1:2009+A1:2011
Durability of functional characteristics	NPD	EN 1090-1:2009+A1:2011
Design	NPD	EN 1090-1:2009+A1:2011
Durability	According to EN 1090-2. Execution class EXC2 project specific according to component.	EN 1090-1:2009+A1:2011
Structural characteristics		EN 1090-1:2009+A1:2011
Load bearing capacity	NPD	EN 1090-1:2009+A1:2011
Fatigue strength	NPD	EN 1090-1:2009+A1:2011
Resistance to fire	NPD	EN 1090-1:2009+A1:2011
Manufacturing	According to component specification 016-01-2019 execution class EXC2. Welding of reinforcing according EN17660-1.	EN 1090-1:2009+A1:2011

10. On behalf of manufacturer, i declare that the performances of the product identified in point 1 and 2 are on conformity with product properties given in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Villähde 1.4.2019



Tero Viljakainen
Quality Manager
Anstar Oy