

## DECLARATION OF PERFORMANCE

No. 014/01

1. Product code: Steel Bracket
2. Product-type: AEP400, AEP600, AEP800, AEP1100, AEP1600 and AEP2200
3. Intended use/s: AEP steel brackets are used to connect precast concrete beams to multi-storey columns or walls. The steel bracket transfers beam loads to the column or wall during installation and in final use of the structure. The bracket acts as a hinge joint allowing the beam to rotate longitudinally but transfers torsional loads from beam to column.
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, class 1	EN 1090-1:2009+A1:2011
Weld ability	EN 10025 and EN10800 steel according S355J2+N, OPTIM 500ML, B500B or B500NC	EN 1090-1:2009+A1:2011
Fracture toughness	Fracture 27J -20°C	EN 1090-1:2009+A1:2011
Reaction to fire	Class A1	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	Pre-treatment P1 or hot dip galvanized	EN 1090-1:2009+A1:2011
Design	EN 1992-1-1 EN 1993-1-1 EN 1991-1-1	EN 1992-1-1 EN 1993-1-1 EN 1991-1-1
Durability	Pre-treatment P1 or hot dip galvanized	EN 1090-1:2009+A1:2011 EN 1992-1
Structural characteristics		EN 1090-1:2009+A1:2011
Load bearing capacity	AEP manual	EN 1992-1-1 EN 1993-1-1 EN 1991-1-1
Fatigue strength	NPD	EN 1090-1:2009+A1:2011
Resistance to fire	NPD	EN 1090-1:2009+A1:2011
Manufacturing	According to component specification 014-01-2018 execution class EXC3. 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 16.11.2018



Tero Viljakainen  
Anstar Oy