

**EU-Declaration of Performance**

*In accordance with Annex III of Regulation (EU) No. 305/2011  
(Construction Product Regulation)*

For the product: **MasterBrace SAT 4500**  
**No. 00201**

1. Unique identification of the product-type:

**EN 1504-4:2004 Principles: 4.3**

2. Type, batch or serial number or other identifying mark to identify the construction product as set out in Article 11 (4):

**Batch number: See product label under “Lot”**

3. intended use as foreseen by the manufacturer of the construction product in accordance with the harmonised technical specification:

**EN 1504-4:2004**

**Structural Bonding: Bonded plate reinforcement**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as set out in Article 11 (5):

**Master Builders Solutions España, S.L.U.**  
**Ctra. de l’Hospitalet, 147-149, Edificio Viena 1a Planta,**  
**08940 Cornellà de Llobregat, Barcelona (Spain)**

5. When applicable, the name and contact address of the authorized representative who has received a mandate for the tasks set out in Article 12(2):

**Not relevant**

6. System or systems for assessment and verification of constancy of performance of the construction product in accordance with Annex V:

**EN 1504-4:2004**

**System 2+: In building and civil engineering works**

7. In the case of a declaration of performance concerning a construction product that is covered by a harmonized standard:

**Aenor**  
**Génova 6**  
**28004 Madrid**  
**CE identification number: 0099**

The notified body has carried out initial inspection of the products and factory production control as well as continuous surveillance, assessment and evaluation of factory production control concerning emissions according to system 2+ and issued the following:

**CE Certificate of Factory Production Control:  
No. 0099/CPR/B15/0043**

8. In case of a declaration of performance concerning a construction product for which a European Technical Assessment was issued:

**Not relevant**

9. Declared performance:

**EN 1504-4:2004**

<b>Essential characteristics</b>	<b>Harmonised technical specification</b>	<b>Performance</b>
Bond / Adhesion strength	EN 1504-4:2004	NPD
Adhesion (plate to plate)	EN 1504-4:2004	> 14 N/mm <sup>2</sup>
Adhesion (plate to concrete)	EN 1504-4:2004	Break through concrete
Adhesion (corrosion protected steel to corrosion protected Steel)	EN 1504-4:2004	NPD
Adhesion (corrosion protected steel to concrete)	EN 1504-4:2004	NPD
Adhesion (hardened concrete to hardened concrete)	EN 1504-4:2004	NPD
Adhesion (fresh concrete to hardened concrete)	EN 1504-4:2004	NPD
Shear strength	EN 1504-4:2004	> 12 N/mm <sup>2</sup>
Oblique shear strength	EN 1504-4:2004	For bisel 50° > 50 N/mm <sup>2</sup> For bisel 60° > 60 N/mm <sup>2</sup> For bisel 70° > 70 N/mm <sup>2</sup>
Compressive strength	EN 1504-4:2004	NPD
Shrinkage	EN 1504-4:2004	< 0,1%
Open time	EN 1504-4:2004	60 ±12 min
Workable life	EN 1504-4:2004	50 – 85 min
Modulus of elasticity in compression	EN 1504-4:2004	> 2000 N/mm <sup>2</sup>
Modulus of elasticity in flexure	EN 1504-4:2004	> 2000 N/mm <sup>2</sup>

Coefficient of thermal expansion	EN 1504-4:2004	< 100 × 10 <sup>-6</sup> K
Glass transition temperature	EN 1504-4:2004	> 12 N/mm <sup>2</sup>
Durability of composite system: thermal cycling	EN 1504-4:2004	Shear Strength > tensile strength
Durability of composite system: moisture cycling	EN 1504-4:2004	After cycles should not cause breakage of the steel on steel specimens
Suitability for application: to vertical surfaces & soffits	EN 1504-4:2004	Shear Strength > tensile strength
Suitability for application: to top horizontal surfaces	EN 1504-4:2004	Shear Strength > tensile strength
Suitability for application: by injection	EN 1504-4:2004	After cycles should not cause breakage of the steel on steel specimens
Suitability for application and curing: low or high temperature	EN 1504-4:2004	NPD
Suitability for application and curing: wet substrate	EN 1504-4:2004	Surface > 3000 mm <sup>2</sup>
Reaction to fire	EN 1504-4:2004	E <sub>fl</sub>
Dangerous substances	EN 1504-4:2004	See MSDS for more information

NPD: **N**o **P**erformance **D**etermined

10. The performance of the product set out in numbers 1 and 2 corresponds to the declared performance set out in number 9. The manufacturer as defined in number 4 is solely responsible for drawing up this declaration of performance.

*Signed for and on behalf the manufacturer:*

**Master Builders Solutions España, S.L.U.**



Andreas Fleischhauer

Market Manager Master Builders Solutions España, S.L.U.