



Declaration of Performance

No. KS-BB-01

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| <b>1. Product Type:</b>   | BoxBolt ®  |
| <b>2. Type, batch or serial no.:</b>  | ETA 20 / 1174 Annex 1<br>Batch no. See product packaging   |
| <b>3. Intended use:</b>   | An expanding structural bolting assembly for use in blind fastening of steelwork   |
| <b>4. Manufacturer:</b>   | As held on File  |
| <b>5. Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):</b>  | Access Technologies Ltd.<br>Cradley Heath<br>B64 7DW<br>United Kingdom   |
| <b>6. System of assessment and Verification of constancy of Performance:</b>  | System 2+  |
| <b>7. In case of the declaration of Performance concerning a Construction product covered By a harmonised standard:</b>   | N / A  |
| <b>8. In the case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued, Technical assessment body:</b> | Element Materials Technology<br>Rotterdam B.V.<br>Zekeringstraat 33<br>1014 BV Amsterdam<br>Netherlands<br>No. 2812  |
| <b>Issued:</b>  | ETA 20 / 1174  |
| <b>On the basis of:</b>   | EAD 330001-00-0602   |
| <b>Performed:</b>   | Element Materials Technology Rotterdam B.V. Has performed the initial inspection of the Factory and the factory production control and performs the continuous surveillance, assessment and approval of the factory production control |
| <b>under system:</b>  | 2+   |
| <b>and issued the factory production control certificate number:</b>  | 2812-CPR-1149  |



9. Declared performance

Essential Characteristic	Performance				Harmonised technical specification
Mechanical Resistance	Nominal Size	Tension resistance FtRK ( KN )	Shear resistance FvRK ( KN )	Material strength of sleeve ( N / mm <sup>2</sup> )	EAD No. 330001-00-0602 ETA - 20 / 1174 Table 4.1
	<b>Z &amp; G</b>				
	M6	13.70	18.80	430	
	M8	23.60	33.30	430	
	M10	41.80	58.50	430	
	M12	53.70	76.30	430	
	M16	96.00	139.30	430	
	M20	168.00	229.90	430	
	<b>SS</b>				
	M6	12.70	17.60	515	
	M8	23.10	31.60	515	
	M10	36.50	57.10	515	
	M12	53.10	72.40	515	
	M16	98.90	131.60	515	
M20	154.40	220.20	515		
Dimensional Stability	The tolerances for dimensions / sizes are defined in the ETA				EAD No. 330001-00-0602 ETA - 20 / 1174 Section 5.1.2 & Annexes
Reaction to Fire	A1 ( Steel )				EN 13501-1
Durability	Corrosivity Class	HDG Steel	Stainless Steel	ISO 9223	
	C1	> 50 years	> 50 years		
	C2	> 50 years	> 50 years		
	C3	> 20 years	> 20 years		
Product Identification	Each Product shall be identified by way of a label affixed to the outside of each packaging of assembled product as defined in the ETA as well as permanent marking stamped into the product.				EAD No. 330001-00-0602 ETA - 20 / 1174 Section 3.2.3

10. The performance of the products identified above is in conformity with the declared performance identified in point 9.

Signed for on behalf of Access Technologies Ltd by:

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P M Higgs Quality Manager