



Declaration of Performance

No. 002

Type: Lindibolt®

Intended Use: An expanding structural bolting assembly for use in blind fastening to steelwork.

Manufacturer: Lindapter International
Lindsay House,
Brackenbeck Road
Bradford,
West Yorkshire
BD7 2NF

System of Assessment and Verification of Constancy of Performance: System 2+

Technical Assessment Body: BM TRADA, Chiltern House,
Stocking Lane,
Hughenden Valley,
High Wycombe
Buckinghamshire
HP14 4ND

Number: 1224

Issued: ETA 11/0199 following the Requirements of CUAP No. 06.02/11

Performed: BM TRADA 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 under system 2+

Factory Production Control Certificate Number: 1224-CPD-0218

Declared Performance:

Essential Characteristic	Performance				Harmonised technical specification												
	Nominal size	Tensile resistance $F_{t,Rk}$ (kN)	Shear resistance $F_{v,Rk}$ (kN)	Material strength of sleeve (N/mm ²)													
Mechanical Resistance	M10	12.0	14.8	380	ETA – 11/0199												
	M12	17.7	21.4	380													
	M16	34.5	40.6	380													
	M20	54.5	64.1	380													
	M24	79.1	93.2	380													
	M10	15.8	13.7	500													
	M12	23.2	19.9	500													
	M16	45.4	38.0	500													
	M20	71.7	60.1	500													
	M24	104.1	87.3	500													
	Dimensional Stability	The tolerances for dimensions / size are defined in the ETA.				ETA – 11/0199											
	Suitability for blind fastening	The mechanical resistance, stiffness & ductility of the product and its performance during tightening are sufficient to ensure correct installation as defined in the ETA.				ETA – 11/0199											
	Reaction to fire	A1 (Steel)				EN 13501-1											
	Fire resistance	NPD															
Release of dangerous substances	NPD																
Safety in use	NPD																
Protection against noise	NPD																
Energy Economy & heat retention	NPD																
Durability	<table border="1"> <thead> <tr> <th>Corrosivity class</th> <th>Electro-plated steel</th> <th>Stainless steel</th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>More than 20 years</td> <td>More than 50 years</td> </tr> <tr> <td>C2</td> <td>More than 5 years</td> <td>More than 50 years</td> </tr> <tr> <td>C3</td> <td>Not suitable</td> <td>More than 50 years</td> </tr> </tbody> </table>				Corrosivity class	Electro-plated steel	Stainless steel	C1	More than 20 years	More than 50 years	C2	More than 5 years	More than 50 years	C3	Not suitable	More than 50 years	ETA – 11/0199
	Corrosivity class	Electro-plated steel	Stainless steel														
	C1	More than 20 years	More than 50 years														
	C2	More than 5 years	More than 50 years														
	C3	Not suitable	More than 50 years														
Serviceability	The performance of the product in service shall not be adversely affected by the forces applied to it as a fastener.				ETA – 11/0199												
Product identification	Each product shall be identified by way of a label affixed to each packaging of fastener assemblies as defined in the ETA.				ETA – 11/0199												

The performance of the product identified above is in conformity with the declared performance identified in the table.

Signed for on behalf of Lindapter International by:



.....
Gordon Browning Managing Partner

Browning 2nd July 2013

.....
Place and date of issue