

IMPER ITALIA S.P.A.	LABORATORIO BUSINESS UNIT MAPPANO	Divisione Imper
---------------------	-----------------------------------	-----------------

TEST REPORT
N° RBTC - 1202

1	Product identification	
1.1	Trade mark	RUBBERFIX Anchoring System
1.2	Composition	<p>Rubberfix Attacco TPO</p> <ul style="list-style-type: none"> - Washer, for connection to the fixing of anchoring to the support - Covering TPO disk - Insert coupling with Rubberfix PRG 12 <p>Rubberfix PRG 12</p> <ul style="list-style-type: none"> - Threated pin, with dual bolt and double washer, for anchoring the support structure of the PV panels
		<ul style="list-style-type: none"> - TPO treated metal Ø 80 mm. - Sintofoil ST 18 disk Ø 20 cm. - Ø 10 mm female threaded galvanised steel insert - Stainless steel threaded pin Ø 10 mm / L 120mm; galvanised steel bolts and washers
1.3	Intended use	- Mechanical fixing of solar structures

2	Tests					
	<i>Characteristics</i>	<i>Test Method</i>	<i>Unit</i>	<i>Reference value</i>	<i>Measured value</i>	<i>Variation %</i>
2.1	Axial loading test	ETAG 006 Annex D	N	400 ⁽¹⁾	5000 ⁽²⁾	≥

<p>COMMENTS</p> <ul style="list-style-type: none"> - Test specimens stored for 24 h at (23±2 °C; 50±5%) prior to testing - No detachment of the welds of the Washer from the waterproofing link layer, nor of the Rubberfix Attacco TPO - "Displacement" at 2000 N: <2 mm (distance between the Rubberfix Attacco TPO and the support base, due to the elastic deformation of the Rubberfix Attacco TPO). - Failure mode: no rupture of the waterproofing link layer, nor of Rubberfix system at an axial load ≥ 5000 N <p>⁽¹⁾ Reference value for the resistance of the mechanical fasteners anchoring of the waterproofing system to the support structure.</p> <p>⁽²⁾ Full scale load cell</p> <p>CONCLUSIONS ⁽³⁾</p> <p>The anchoring system RUBBERFIX resists without breaking under an axial load greater than 5000 N (full scale value of the measuring). Urged axially the system is elastically deformed, with a displacement of about 2 mm under a load of 2000 N.</p> <p>⁽³⁾ Notes: The values obtained from the tests represent only a technical aid for the development of design loads applicable to the anchoring system, which must be verified and approved by the designer's work.</p>
--