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Declaration
- 21227704 – Climate tests on cabinet technoPLUS

Manufacturer: Rolec

Product: Polymeric cabinet
Type: technoPLUS 172

According to your enquiry several climate tests were performed on the above mentioned cabinet following the PV modules standard EN IEC 61215:2005. The initial visual inspection did not show any defects.

The following table shows the performed tests and findings:

No.	Description	Start	End	Result
1	UV preconditioning	26.01.2015	05.02.2015	No visual defects
2	Thermal Cycling TC 50	05.02.2015	12.02.2015	No visual defects
3	Salt Mist	27.01.2015	26.03.2015	No visual defects
4	Damp Heat 65°C/ 85% RH	26.03.2015	20.05.2015	No visual defects
5	Hail Impact	08.06.2015	08.06.2015	No visual defects

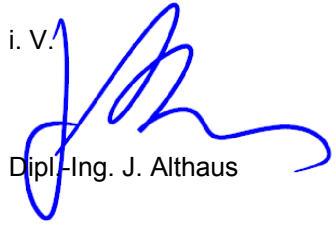
Final Evaluation:

With respect to the operation conditions, the damp Heat test with around 1000h was performed at 65°C and 85% RH. No visual defects were detected after the above listed, accelerated aging tests.

The final hail impact test with two different accelerated aged samples did not show any cracks, deformation or other visual defects.

Business Field Solar Energy

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Photo Documentation:

<p>Initial Inspection Front/ Lid</p> 	<p>Initial Inspection Back/ Box</p> 
<p>Visual Inspection after UV</p> 	<p>Visual Inspection after UV</p> 
<p>Visual Inspection after salt mist</p> 	<p>Visual Inspection after salt mist</p> 
<p>Visual Inspection after DH 65°C</p> 	<p>Visual Inspection after DH 65°C</p> 

Protocol Hail Impact Test

Sample	Speed range	Real speed	Position	Remarks
1	60 km/h	60.3	Lid center	
		59.8	Fixing Cover top left	
		60.4	Lid corner	
		65.0	Lid edge	
		61.2	Fixing cover middle	Cover pop up, no damages
1	90 km/h	87.2	Lid center	
		90.8	Fixing Cover top left	
		87.5	Lid corner	
		88.8	Lid edge	
		90.0	Fixing cover middle	
1	120 km/h	116.4	Lid center	
		119.9	Fixing Cover bottom left	Cover pop up, no damages
		120.3	Lid corner	
		120.1	Lid edge	
		121.0	Fixing cover middle	Cover pop up, no damages
		122.8	Lid Edge from Top	
		123.1	Fixing cover from Top	
		119.7	Box center from top	
		122.3	Box center from side	
		123.3	Fixing cover from side	Cover pop up, no damages
		124.6	Corner from side	
		2	120 km/h	124.4
123.4	Fixing Cover bottom left			Cover pop up, no damages
122.4	Lid corner			
123.0	Lid edge			
122.7	Fixing cover middle			
123.3	Lid Edge from Top			
124.1	Fixing cover from Top			Cover pop up, no damages
124.2	Box center from top			
123.6	Box center from side			
121.9	Fixing cover from side			
122.4	Corner from side			

