

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24FVND 001	Auftrags-Nr.: <i>Order no.:</i>	170383396	Seite 1 von 14 <i>Page 1 of 14</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2604393	Auftragsdatum: <i>Order date:</i>	2024-07-17	
Auftraggeber: <i>Client:</i>	Sunshare Technology Co., Ltd No.2999 Jiyin Avenue, Jiangning District, Nanjing, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Balustrades mounting system			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	SR-HCFA-A SR-HCAA-A SR-HFFA-A(SR-HBFA-A) SR-HFAA-A(SR-HBAA-A) SR-HTFA-B			
Auftrags-Inhalt: <i>Order content:</i>	Wind load resistance performance test for Balustrades mounting system			
Prüfgrundlage: <i>Test specification:</i>	According to client's requirement			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-07-15	Refer to clause 10		
Prüfmuster-Nr.: <i>Test sample no.:</i>	170383396-A1, -A2			
Prüfzeitraum: <i>Testing period:</i>	2024-07-18 - 2024-07-19			
Ort der Prüfung: <i>Place of testing:</i>	See remark on page 2			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Siehe Sonstiges / See Other			
erstellt von: <i>created by:</i>	Constant Zhao	genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2024.08.09 15:24:29 +08'00'	Ausstellungsdatum: <i>Issue date:</i>	Susie Ni 2024.08.12 20:36:47 +08'00'	
Stellung / Position:	Constant Zhao / PE	Stellung / Position:	Susie Ni / Reviewer	
Sonstiges / <i>Other:</i>	Test result refer to clause 9.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>									
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>									
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>									
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>									
5	<table><tr><td>Prüfmittel <i>Test equipment</i></td><td>Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i></td><td>Nächste Kalibrierung <i>Next calibration</i></td></tr><tr><td>Pitot tube</td><td>D-1-027</td><td>2027-08-28</td></tr><tr><td>Digital micromanometer</td><td>T58252316007</td><td>2025-06-28</td></tr></table> Place of testing: Guangdong Provincial Academy of Building Research Group Co., Ltd (No. 121, Xianlie East Road, Tianhe District, Guangzhou City, Guangdong Province, P.R. China)	Prüfmittel <i>Test equipment</i>	Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>	Pitot tube	D-1-027	2027-08-28	Digital micromanometer	T58252316007	2025-06-28
Prüfmittel <i>Test equipment</i>	Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>								
Pitot tube	D-1-027	2027-08-28								
Digital micromanometer	T58252316007	2025-06-28								

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Produktbeschreibung
Product description

1	Produktdetails Product details	Balustrades mounting system There are five balustrades mounting systems produced by the client. The construction of them as listed in page 4. According to the discussion and evaluation of client and test laboratory, the model SR-HCFA-A and SR-HFFA-A(SR-HBFA-A) were selected as reference model to conduct with the wind load resistance test.
2	Maße / Gewicht Dimensions / Weight	L*W*H PV module: 1236*766*30 mm Model: SR-HCFA-A 1) Side poles (KM-02B-01A/B): 800*45*35.5 mm 2) Upper crossbar (KM-03-01): 701.5*32*32 mm 3) Diagonal brace (KM-04-01): 459*25*25 mm 4) U-shaped part (KM-45-01): 99.5*25*40 mm 5) Outer U-shaped groove (KM-16-01): 213*44.5*45.5 mm 6) Inner U-shaped groove (KM-17B-01): 210*41*58 mm 7) Side U-shaped groove (KM-18-01A): 400*41*40 mm Model: SR-HFFA-A(SR-HBFA-A) 1) Side poles (KM-02B-01A/B): 800*45*35.5 mm 2) Upper crossbar (KM-03-02): 781.5*32*32 mm 3) Diagonal brace (KM-04-01): 459*25*25 mm 4) U-shaped part (KM-45-01): 99.5*25*40 mm 5) Variable pitch left hook (ZW-01-01A): 100*85*35 mm 6) Variable pitch right hook (ZW-01-01B): 130*35*35 mm
3	Bedienelemente Operating elements	N/A
4	Ausstattung / Zubehör Equipment / Accessories	N/A
5	Verwendete Materialien Used materials	AL 6061-T6 (Hook), AL 6063-T6 (other component beside hook)
6	Sonstiges Other	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Prüfmusterbereitstellung: Test sample obtaining	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ others:

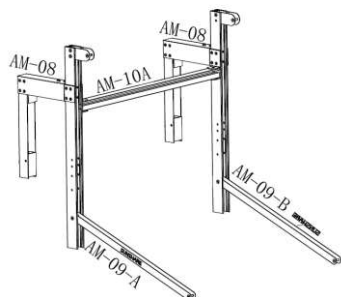
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Produktbeschreibung
Product description

Model: SR-HCFA-A

SR-HCFA-A

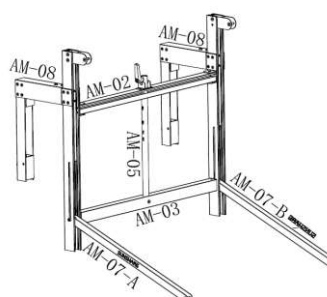


装箱单

编号/名称	数量
AM-08	2
AM-09-A	1
AM-09-B	1
AM-10A	1
内六角圆柱头螺钉M10*200	2
倒边内六角对锁螺钉 M5*25 (套)	5
单面自粘垫块50*50*10	4

Model: SR-HCAA-A

SR-HCAA-A

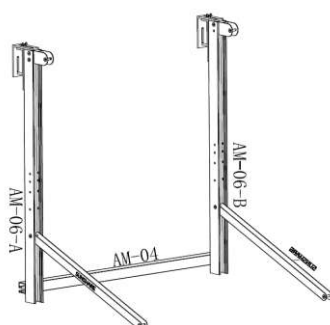


装箱单

编号/名称	数量
AM-02	1
AM-03	1
AM-05	1
AM-07-A	1
AM-07-B	1
AM-08	2
内六角圆柱头螺钉M10*200	2
倒边内六角对锁螺钉 M5*25 (套)	5
单面自粘垫块50*50*10	4

Model: SR-HFFA-A(SR-HBFA-A)

SR-HFFA-A (SR-HBFA-A)

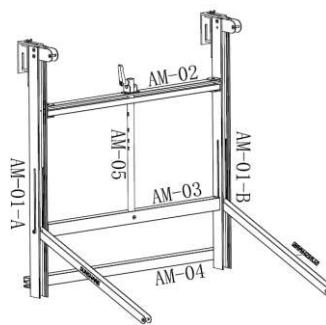


装箱单

编号/名称	数量
AM-04	1
AM-06-A	1
AM-06-B	1
AM-13	2
或AM-14	1
KW-06-01	2
十字槽盘头螺钉M6*150	2
十字槽盘头螺钉M6*100	2
倒边内六角对锁螺钉 M5*25 (套)	5
金属孔带4.6mm宽, 自锁型	2
单面自粘发面条100*35*2	2

Model: SR-HFAA-A(SR-HBAA-A)

SR-HFAA-A (SR-HBAA-A)

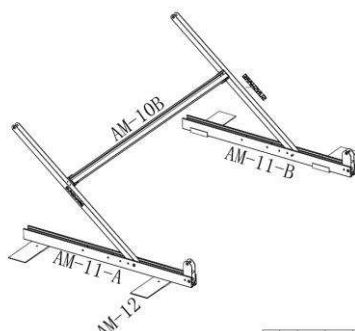


装箱单

编号/名称	数量
AM-01-A	1
AM-01-B	1
AM-02	1
AM-03	1
AM-04	1
AM-05	1
AM-13	2
或AM-14	1
KW-06-01	2
十字槽盘头螺钉M6*150	2
十字槽盘头螺钉M6*100	2
倒边内六角对锁螺钉 M5*25 (套)	5
金属孔带4.6mm宽, 自锁型	2
单面自粘发面条100*35*2	2

SR-HTFA-B

SR-HTFA-B



装箱单

编号/名称	数量
AM-10B	1
AM-11-A	1
AM-11-B	1
AM-12	4
膨胀螺栓M8*100	4
倒边内六角对锁螺钉 M5*25 (套)	5

NA

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result
8	Test item and requirement		
8.1	Test background and apparatus		
	This test was carried out in the small test section (1.8m×2.0m) of CGB-1 wind tunnel laboratory. Wind pressure and wind velocity can be read via anemometer installed in the test section. The anemometer is pitot tube, located 1.5m ahead of the centre of test turntable with height 1.8m. Pitot tube connected with fan control system by pressure sensors. The interior of wind tunnel is shown in Figure 1.		
			
	Figure 1. Wind tunnel		
8.2	Test requirement		
	Install the balustrades mounting system and PV module to a simulate balcony rail according to client's requirement. Turn on the wind load resistance performance test facility, and conduct test as below conditions: - Model: SR-HCFA-A Wind direction: 0°, 30°, 60° Wind velocity: 10m/s, 25m/s, 35m/s, 45m/s and 55m/s, hold for 5 minutes under each wind velocity; - Model: SR-HFFA-A(SR-HBFA-A) Wind direction: 0°, 30°, 60°, 180°, 210°, 240° Wind velocity: 10m/s, 25m/s, 35m/s, 45m/s and 55m/s, hold for 5 minutes under each wind velocity; Monitoring whether deformation or vibration occurs during testing and check whether deformation, damage or looseness occurs on test sample after testing.		

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result																												
8.3	Test procedure The procedure of wind load resistance performance as follows: 1. Install the test sample in the wind tunnel floor according to the specification of client; 2. Turn on the wind test facility, gradually adjust the facility to increase the wind velocity; 3. Monitoring the wind velocity through the wind velocity monitoring probe; 4. Gradually increase the wind velocity to 10m/s, 25m/s, 35m/s, 45m/s and 55m/s, hold for 5 minutes for each wind velocity; 5. Observe whether deformation, vibration, damage or components falling off occurs on test sample during testing; 6. Turn off the wind test facility, check if visual deformation, loosening or destruction of component detected on test sample. 7. Adjust the test sample to get specified wind direction and repeat above procedure.																														
9	Test result																														
9.1	Test result of model SR-HCFA-A																														
9.1.1	PV module facing wind (0°) <table><tr><th>Wind direction</th><th>PV module tile angle</th><th>Wind velocity</th><th>Duration</th><th>Phenomenon</th></tr><tr><td rowspan="7">Facing the wind (0°)</td><td rowspan="7">77°</td><td>0</td><td>/</td><td>All components of the sample are installed according to the requirement of client.</td></tr><tr><td>10 m/s</td><td>5 min</td><td>There was no visual damage detected on PV module, mounting system connection and components.</td></tr><tr><td>25 m/s</td><td>5 min</td><td>There was no visual damage detected on PV module, mounting system connection and components.</td></tr><tr><td>35 m/s</td><td>5 min</td><td>There was no visual damage detected on PV module, mounting system connection and components.</td></tr><tr><td>45 m/s</td><td>5 min</td><td>There was no visual damage detected on PV module, mounting system connection and components.</td></tr><tr><td>55 m/s</td><td>5 min</td><td>There was no visual damage detected on PV module, mounting system connection and components.</td></tr><tr><td>Turn off the blower</td><td>/</td><td>There was no visual deformation, loosening or destruction of components detected on test sample after testing.</td></tr></table>			Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon	Facing the wind (0°)	77°	0	/	All components of the sample are installed according to the requirement of client.	10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.	25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.	35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.	45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.	55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.	Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.
Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon																											
Facing the wind (0°)	77°	0	/	All components of the sample are installed according to the requirement of client.																											
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.																											
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.																											
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.																											
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.																											
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.																											
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.																											

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9.1.2 PV module side facing wind (30°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Side facing the wind (30°)	63.5°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

9.1.3 PV module side facing wind (60°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Side facing the wind (60°)	63.5°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

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9.2	Test result of model SR-HFFA-A(SR-HBFA-A)				
9.2.1	PV module facing wind (0°)				
	Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
	Facing the wind (0°)	60.7°	0	/	All components of the sample are installed according to the requirement of client.
			10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.
9.2.2	PV module side facing wind (30°)				
	Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
	Side facing the wind (30°)	60.7°	0	/	All components of the sample are installed according to the requirement of client.
			10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
			Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

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9.2.3 PV module side facing wind (60°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Side facing the wind (60°)	63.5°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

9.2.4 PV module backside facing wind (180°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Backside facing the wind (180°)	60.7°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

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9.2.5 PV module backside facing wind (210°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Backside facing the wind (210°)	60.7°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

9.2.6 PV module backside facing wind (240°)

Wind direction	PV module tile angle	Wind velocity	Duration	Phenomenon
Backside facing the wind (240°)	60.7°	0	/	All components of the sample are installed according to the requirement of client.
		10 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		25 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		35 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		45 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		55 m/s	5 min	There was no visual damage detected on PV module, mounting system connection and components.
		Turn off the blower	/	There was no visual deformation, loosening or destruction of components detected on test sample after testing.

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Conclusion:

The test conducted under laboratory conditions according to the requirement of client. The conclusion of the test as below:

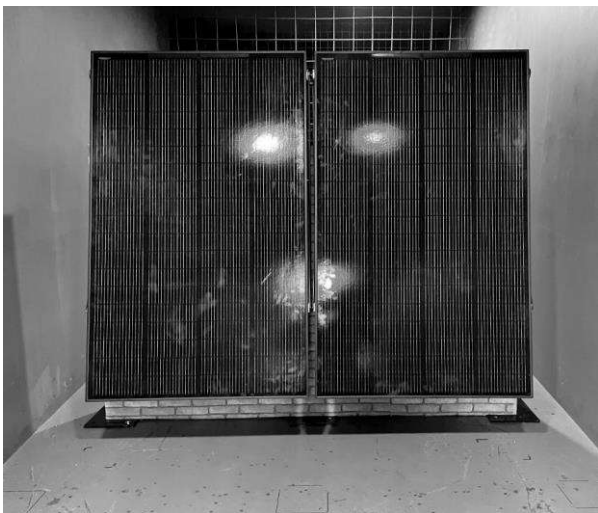
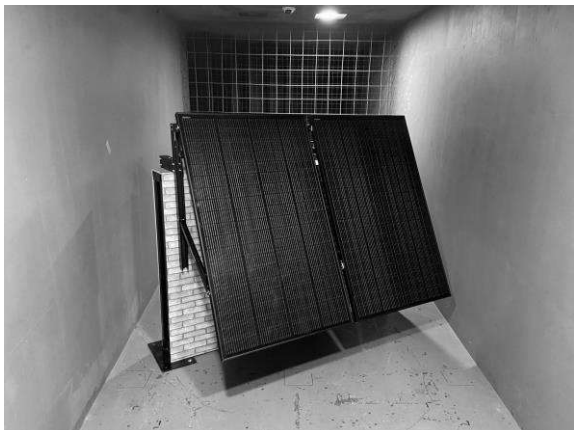
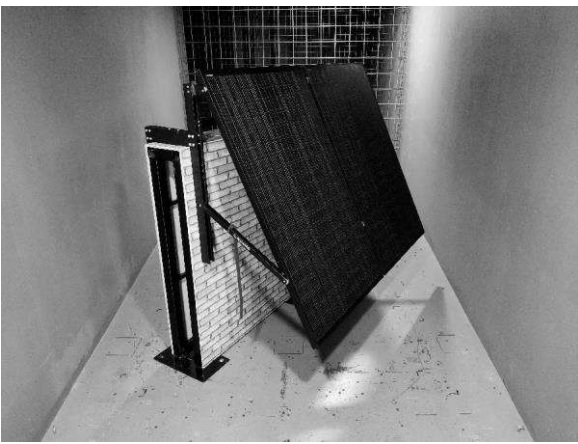
There was no visual deformation, loosening or destruction of component detected on tested balustrades mounting system SR-HCFA-A after testing with the wind velocity 10m/s, 25m/s, 35m/s, 45m/s and 55m/s under three different wind direction test condition.

There was no visual deformation, loosening or destruction of component detected on tested balustrades mounting system SR-HFFA-A(SR-HBFA-A) after testing with the wind velocity 10m/s, 25m/s, 35m/s, 45m/s and 55m/s under six different wind direction test condition.

It needs to be pointed out that the test was carried out in laboratory conditions and only wind velocity action be considered. Also, the wind velocity and wind direction are relatively fixed during testing. However, the wind may sometimes blow with rain, sand, debris, etc. in the actual environment. Thus, the conditions of its deformation or destruction may be slightly different from the laboratory conditions.

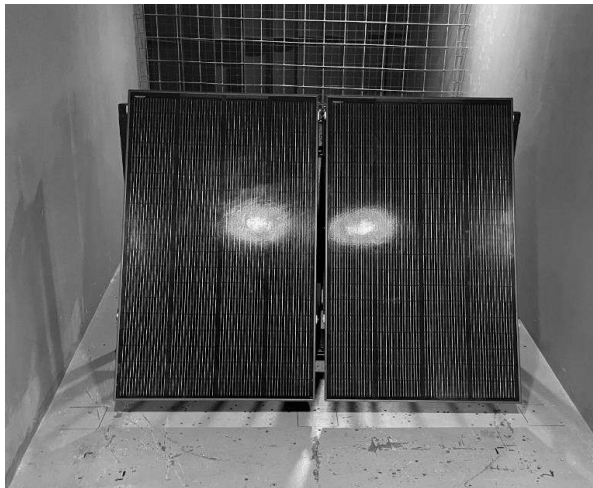
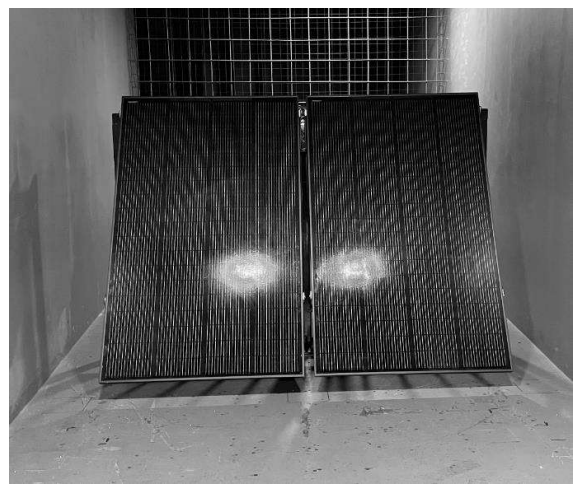
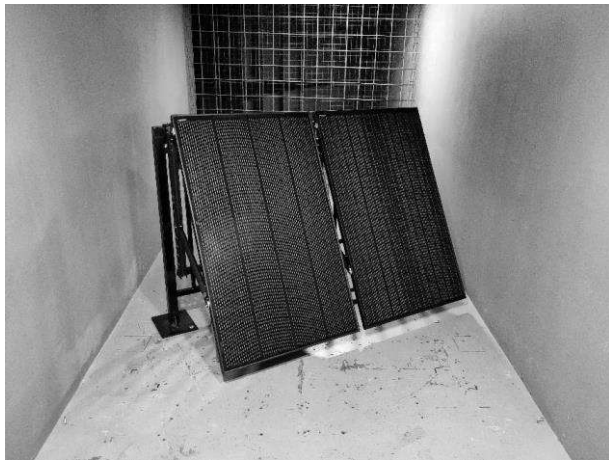
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10	Test photo		
10.1	Test photo of model SR-HCFA-A		
10.1.1	PV module facing wind (0°)		
			
	Before test	After test	
10.1.2	PV module side facing wind (30°)		
			
	Before test	After test	
10.1.3	PV module side facing wind (60°)		
			
	Before test	After test	

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result
10.2	Test photo of model SR-HFFA-A(SR-HBFA-A)		
10.2.1	PV module facing wind (0°)		
			
	Before test	After test	
10.2.2	PV module side facing wind (30°)		
			
	Before test	After test	
10.2.3	PV module side facing wind (60°)		
			
	Before test	After test	

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10.2.4	PV module backside facing wind (180°)  Before test	 After test	
10.2.5	PV module backside facing wind (210°)  Before test	 After test	
10.2.6	PV module backside facing wind (240°)  Before test	 After test	