



<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>DE25NEWI 002</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	2125 1542	Seite 1 von 15 <i>Page 1 of 15</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	1985281	<b>Auftragsdatum:</b> <i>Order date:</i>	2020-11-13	
<b>Auftraggeber:</b> <i>Client:</i>	POLYUREATEC GmbH (for add. information see page 3)			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Surface coating (for caravan)			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	HailGuard Pro S			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Hail Impact Test			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	following VKF - Prüfbestimmung ***  No. 11 "Kunststoffplatten" 1.04 (01/07/2015) No. 20 "Sandwichelemente" 1.02 (01/06/2014)s			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2021-02-19			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	see "List of test samples"			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2021-03-11 – 2021-03-15			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Am Grauen Stein, 51105 Köln, Cologne			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland Energy GmbH			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Siehe Sonstiges / See Other			
<b>geprüft von:</b> <i>tested by:</i>	<input checked="" type="checkbox"/> 	<b>genehmigt von:</b> <i>authorized by:</i>	<input checked="" type="checkbox"/> 	
<b>Datum:</b> <i>Date:</i> 2025-03-26	Signiert von: Juergen Sommer	<b>Ausstellungsdatum:</b> <i>Issue date:</i> 2025-03-26	Signiert von: Ulrich Fritsch	
<b>Stellung / Position:</b>	Sachverständige(r)/Expert	<b>Stellung / Position:</b>	Sachverständige(r)/Expert	
<b>Sonstiges / Other:</b>	Only recommendation of hail withstand class *** VKF (Vereinigung Kantonaler Feuerversicherungen) Add. spec.: Prüfbestimmung Nr 00a – Allgemeiner Teil A & Nr 00b – Allgemeiner Teil B			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <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				
<b>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.</b> <i>This test report only relates to the a. m. 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>				

V05

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**Anmerkungen**  
*Remarks*

<b>A</b>	<p>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.</p> <p>Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><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.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>																				
<b>B</b>	<p>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.</p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV 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, TÜV 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.</i></p>																				
<b>C</b>	<p>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.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>																				
<b>D</b>	<p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC GC8:2019 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.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance to ILAC GC8:2019 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.</i></p>																				
<b>E</b>	<p>Wenn auf dem Bericht kein Akkreditierungshinweis aufgebracht ist, wurde der Bericht nicht im akkreditierten Bereich erstellt und ist folglich auch nicht vom EA MLA abgedeckt. Unabhängig davon wurde der Bericht auf Basis der allgemeinen Regeln der ISO/IEC 17000er Reihe erstellt. Mit "#" gekennzeichnete Prüfungen sind nicht Bestandteil der Akkreditierung D-PL-22040-01-00.</p> <p><i>If there is no accreditation notice on the report, the report has not been produced in the accredited area and is consequently not covered by the EA MLA. Regardless of this, the report has been prepared based on the general rules of the ISO/IEC 17000 series. Tests marked with "#" are not covered by the accreditation D-PL-22040-01-00.</i></p>																				
<b>F</b>	<table border="1"> <thead> <tr> <th colspan="4">Revision History</th> </tr> <tr> <th>Revision</th> <th>Date</th> <th>Nature of changes</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>2021-04-12</td> <td>Original issue (as 21251542.001)</td> <td></td> </tr> <tr> <td>001</td> <td>2025-03-07</td> <td>Revised related to product name and customer</td> <td></td> </tr> <tr> <td>002</td> <td>2025-03-26</td> <td>Correction of typewriting errors</td> <td>3</td> </tr> </tbody> </table>	Revision History				Revision	Date	Nature of changes	Page	-	2021-04-12	Original issue (as 21251542.001)		001	2025-03-07	Revised related to product name and customer		002	2025-03-26	Correction of typewriting errors	3
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**Produktbeschreibung**  
*Product description*

1	<b>Auftraggeber</b> <i>Client</i>	PolyureaTec GmbH Jakob-Kaiser-Str. 8 47877 Willich Germany	
2	<b>Produktdetails</b> <i>Product details</i>	<b>Allgemeine Informationen ; General Information</b>	
		Brand name	PolyureaTec
		Type name	HailGuard Pro S
		Product category	(Caravan) surface coating
		Year of production	2021
		Coating material	Polyurea
		Layer thickness [mm]	1.5                      1.5
		Base layer material	Aluminium              Glass-fiber laminate [GFK]
<b>Dimensionen ; Dimension</b>			
		Dimension (l / w / h) [mm]	910 / 605 / 41              970 / 570 / 35
		Gross area [m <sup>2</sup> ]	0.55                      0.55
		Thickness [mm]	41 ; incl. coating              35 ; incl. coating
3	<b>Technische Dokumentation</b> <i>Technical documentation</i>	n.n.	
4	<b>Hersteller</b> <i>Manufacturer</i>	PolyureaTec GmbH (see <i>Point 1</i> )	
5	<b>Distributor</b> <i>Distributor</i>	-	
6	<b>Sonstiges</b> <i>Other</i>	Co-report; based on Project-No. 21251542/Report-No. 21251542.001	
7	<b>Prüfmusterbereitstellung:</b> <i>Test sample obtaining</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:	

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**Produktbeschreibung**  
*Product description*

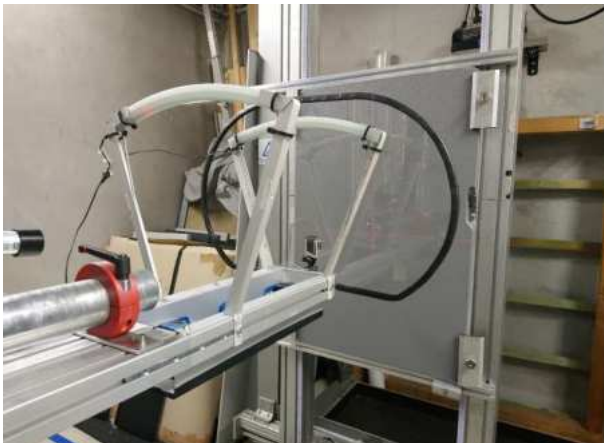
Set-up and mounting situation (example)



Set-up and mounting situation (example)



Set-up and mounting situation (example)



Final inspection – external – Alu vs. GFK (example)



Example of thickness (Alu)



Example of thickness (GFK)



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<b>Absatz</b> <i>Clause</i>	<b>Anforderungen - Prüfungen /</b> <i>Requirements - Tests</i>	<b>Messergebnisse – Bemerkungen/</b> <i>Measuring results - Remarks</i>	<b>Ergebnis</b> <i>Result</i>

-	<b>Result summary table</b>			
Test	Date [DD Month YYYY]		Summary of main test results	—
	Start / 1 <sup>st</sup>	End / 2 <sup>nd</sup>		
Impact resistance (various ice ball diameter)	11 March 2021		See <i>Final evaluation</i> and <i>Final inspection</i>	N/A*
Final inspection	15 March 2021			N/A*
Supplementary information: *because of various results no clear information could be given; see also <i>Final evaluation</i> and <i>Final inspection</i>				

-	<b>Final evaluation</b>			
In four-eyes principle; by		J. Sommer U. Fritzsche		
Overview of single evaluation results				
<b>Evaluation of hail withstand (only recommendation)</b>				
Properties of component	Hail withstand class and Ice ball diameter			
Thickness of surface [mm]	1.5 ; on aluminium		1.5 ; on glass-fiber laminate	
Visual nature / look (>0.5 m)	HW2	25 mm	HW3	30 mm
Visual nature / look (<0.5 m)	HW2	20 mm	HW3	30 mm
Water tightness	HW5	50 mm	HW5*	50 mm*
Mechanics / structure	HW2	20 mm	HW3	30 mm
Supplementary information: see also <i>Final inspection</i> *glass-fiber laminate is broken (internally), but system is still water tight by coating				

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-	<b>List of test samples</b>			
Test Sample Picking (randomly)		Date [DD/MM/YYYY]	by	—
		-	-	
Sample No.	Sample S/N	Type	Remarks /constructional characteristics	
HV2021000371	-	Alu; with 1.5 mm coating	-	
HV2021000372	-	GFK; with 1.5 mm coating	-	
HV2021000373	-	Alu; with 1.5 mm coating	Spare	

-	<b>Visual inspection (Initial)</b>			
Test date [DD/MM/YYYY]		11/03/2021		—
Sample No.	Nature and position of initial findings			
HV2021000371	-			
HV2021000372	Small nonuniformity in coating on a defined spot, but not relevant for testing			
HV2021000373	-			
Supplementary information: -				

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-	<b>Impact resistance test (general)</b>		
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Test date [DD/MM/YYYY] Day code	11/03/2021 <sup>a</sup>						
Sample-No. ID code	HV2021000371#Alu ; HV2021000372#GFK						
Method used for impact resistance (following)	Nr. 11 "Kunststoffplatten" & Nr. 20 "Sandwichelemente"						
Surface conditioning	Cooled with ice (also referenced without cooling)						
Sample tilt angle [° from horizontal]	90						
Direction of shoot [°]	0 (horizontal)						
Impact angle [° from sample surface]	90						
Distance (sample to center of v <sub>0</sub> -meas.) [mm]	500 to 700						
Ice ball production [week of the year]	5 (hermetically sealed)						
Storage temperature of ice ball [°C]	-20						
Ambient conditions (mean) [°C and % RH]	22.4 and 38.4 ;						
Diameter of ice ball [mm]	20	25	30	35	40	45	50
Weight of ice ball [g] +/- 5%	3.6	7.5	12.3	20.7	29.2	43.9	56.9
Velocity of ice ball [m/s] +/- 5%	19.5	23.0	23.9	27.3	27.5	30.7	30.8
Impact energy (at least) [J]	0.7	2.0	3.5	7.7	11.1	20.7	27.0

Description of impact location



Supplementary information: Cross-points of lines are impact locations with remarked ice diameter

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-	Impact resistance test – Result table								
Sample ID	Impact information				Mass of ball [g]	Velocity of ball [m/s]	Impact energy [J]	—	
	Day	No.	No. & diameter [mm]	Location description					
#Alu	Start with ice ball diameter 20mm (HW2)								
	a	1	1	20	left (uncooled)	3.53	20.45	0.74	F*
		2	2		middle (cooled)	3.52	19.97	0.70	P*
		3	3		right (cooled)	3.53	20.14	0.72	P*
	Change to ice ball diameter 25 mm (HW2)								
	a	4	4	25	left (uncooled)	7.58	24.14	2.21	F*
		5	5		middle (cooled)	7.48	24.05	2.16	P*
		6	6		right (cooled)	7.37	23.85	2.10	P*
	Change to ice ball diameter 30 mm (HW3)								
	a	7	7	30	left (uncooled)	12.42	23.75	3.50	F*
		8	8		middle (cooled)	12.56	24.30	3.71	F*
		9	9		right (cooled)	12.80	24.63	3.88	F*
	Change to ice ball diameter 35 mm (HW3)								
	a	10	10	35	left (uncooled)	20.49	28.06	8.07	F*
		11	11		middle (cooled)	20.32	27.64	7.76	F*
		12	12		right (cooled)	20.22	27.60	7.70	F*
	Change to ice ball diameter 40 mm (HW4)								
	a	13	13	40	left (uncooled)	29.67	27.65	11.34	F*
		14	14		middle (cooled)	29.79	27.91	11.60	F*
		15	15		right (cooled)	29.55	27.59	11.25	F*
	Change to ice ball diameter 45 mm (HW4)								
b	16	16	45	left (uncooled)	42.43	31.85	21.52	F*	
	17	17		middle (cooled)	42.47	32.01	21.76	F*	
	18	18		right (cooled)	42.41	31.68	21.28	F*	
Start with ice ball diameter 50mm (HW5)									
a	19	19	50	left (uncooled)	58.36	32.08	30.03	F*	
	20	20		middle (cooled)	58.32	32.33	30.48	F*	
	21	21		right (cooled)	58.23	31.90	29.63	F*	
End of test sequence; see "Final inspection" and "Final evaluation"									
Supplementary information: *based on visual nature/optical look > 5m distance only									



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-	Impact resistance test – Result table							
Sample ID	Impact information				Mass of ball [g]	Velocity of ball [m/s]	Impact energy [J]	—
Day	No.	No. & diameter [mm]	Location description					
Start with ice ball diameter 20mm (HW2)								
a	22	1	20	left (uncooled)	3.48	20.22	0.71	P*
	23	2		middle (cooled)	3.66	20.47	0.77	P*
	24	3		right (cooled)	3.51	20.13	0.71	P*
Change to ice ball diameter 25 mm (HW2)								
a	25	4	25	left (uncooled)	7.57	24.13	2.20	P*
	26	5		middle (cooled)	7.38	23.98	2.12	P*
	27	6		right (cooled)	7.39	23.97	2.12	P*
Change to ice ball diameter 30 mm (HW3)								
a	28	7	30	left (uncooled)	12.84	24.42	3.83	P*
	29	8		middle (cooled)	12.88	24.51	3.87	P*
	30	9		right (cooled)	12.56	24.28	3.70	P*
Change to ice ball diameter 35 mm (HW3)								
a	31	10	35	left (uncooled)	20.43	27.51	7.73	F*
	32	11		middle (cooled)	20.47	27.49	7.73	F*
	33	12		right (cooled)	20.61	28.01	8.08	F*
Change to ice ball diameter 40 mm (HW4)								
a	34	13	40	left (uncooled)	29.41	27.61	11.21	F*
	35	14		middle (cooled)	29.35	27.56	11.15	F*
	36	15		right (cooled)	29.76	28.27	11.89	F*
Change to ice ball diameter 45 mm (HW4)								
b	37	16	45	left (uncooled)	45.53	31.15	22.09	F*
	38	17		middle (cooled)	45.50	31.18	22.12	F*
	39	18		right (cooled)	43.67	31.00	20.98	F*
Start with ice ball diameter 50mm (HW5)								
a	40	19	50	left (uncooled)	58.37	31.89	29.68	F*
	41	20		middle (cooled)	58.76	32.32	30.69	F*
	42	21		right (cooled)	58.22	31.34	28.59	F*
End of test sequence; see "Final inspection" and "Final evaluation"								
Supplementary information: *based on visual nature/optical look > 5m distance only								

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-	<b>Final inspection (general)</b>			
Test date [DD/MM/YYYY]		15/03/2021		
Sample-No.	Potential problem	Evaluation		—
		Alu; with 1.5 mm coating	GFK; with 1.5 mm coating	
HV2021000371 HV2021000372	Technical problems	HW 2 <b>passed</b> ; <u>with 20 mm</u> NO cracks visible under use of magnifier NO structural damages detectable	HW 3 <b>passed</b> ; <u>with 30 mm</u> NO cracks visible under use of magnifier NO structural damages detectable	N/A*
	Additional technical remark	Generally water tight ; Dents and stretching of aluminium sheet only (up to <u>50 mm</u> )	Generally water tight ; Glass-fiber laminate broken at <u>&gt;35 mm</u> <b>Water tightness given by coating only</b>	—
	Visual problems (distance; > 0.5 m)	HW 2 <b>passed</b> ; <u>with 25 mm</u> NO cracks visible NO dents visible	HW 3 <b>passed</b> ; <u>with 35 mm</u> NO cracks visible NO dents visible	N/A*
	Visual problems (near; < 0.5 m)	HW 2 <b>passed</b> ; <u>with 20 mm</u> NO cracks visible (under use of magnifier) NO dents visible	HW 3 <b>passed</b> ; <u>with 30 mm</u> NO cracks visible (under use of magnifier) NO dents visible	N/A*
	Individual additional remarks: All results are related to the tested samples (carrier sandwich and coating) ; further, without any correlation of long term effects. * see Final evaluation and Annex : Additional photo documentation			—
Supplementary information: -				

-	<b>General remarks and subplementary information</b>			
Measuring uncertainties				
<b>All results only refer to the test samples that were subjected to testing.</b>				—
The extended total measuring uncertainty is: $u(k=2) \leq \pm 2.5 \%$				

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-	<b>Annex: Additional photo documentation</b>		
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Final inspection - Alu



Final inspection - GFK



Final inspection - Alu



Final inspection - GFK

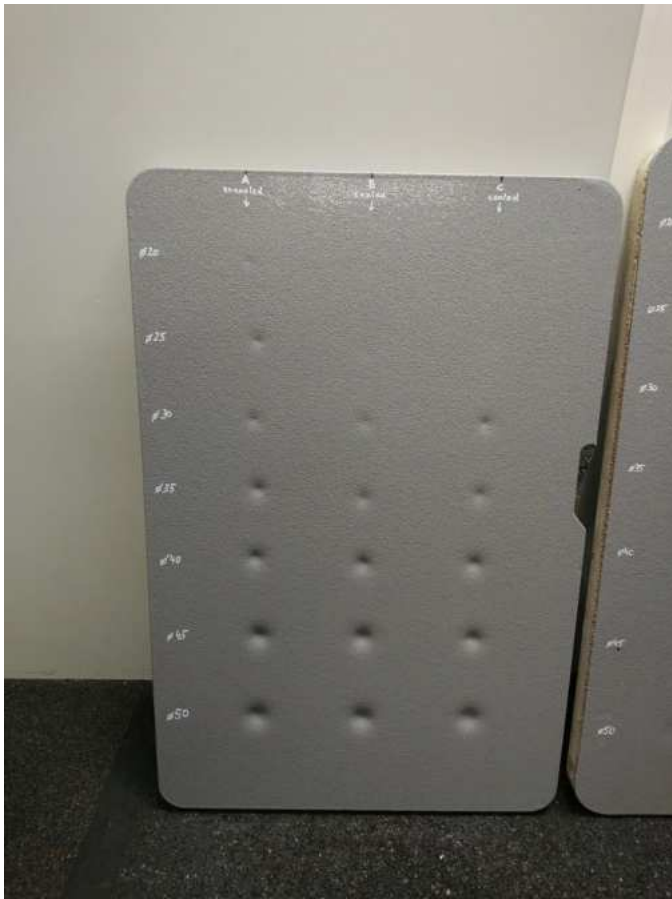


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- **Annex: Additional photo documentation**

Final inspection - Alu



Final inspection - GFK



Final inspection – Alu vs. GFK



Final inspection – Alu vs. GFK



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-	<b>Annex: Additional photo documentation</b>		
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Final inspection - Alu



Final inspection – Alu [NO cracks]



Final inspection - GFK



Final inspection – GFK [NO cracks]



Final inspection - GFK



Final inspection – GFK [with cracks]



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-	Annex: Additional photo documentation		
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Final inspection - GFK



Final inspection – GFK [with cracks]



Final inspection - GFK



Final inspection – GFK [with cracks]



Final inspection - GFK



Final inspection – GFK [with cracks]



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