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Certificate Of Analysis

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Date	:	28-05-2021
Subject	:	Testing INTELLIGENT PROTECT
Your Code	:	**INTELLIGENT PROTECT**
Laboratory Number	:	204624Ba
Sampling	:	By the client
Period of Investigation	:	14-12-2020 until 04-02-2021

SAMPLE DATA

Photo - the received sample from the client. The temporary protective film is cream white

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INTRODUCTION

The client has asked SGS INTRON to assess whether the sprayed temporary protection film has sufficient resistance against sparks of grinding metals and of welding metal.
Because no standards are available to determine this, we have drawn up a practical test program together with the client

TEST PROGRAM

Part of a window is sprayed with the temporary film and the other part is untreated. The entire window is tested with:

- carbon steel sparks
- stainless steel sparks
- aluminum sparks
- metal welding sparks

All tests are performed for 30 seconds at a distance of 50 cm on the same window frame.

carbon steel

stainless steel

aluminum

metal welding

Before the tests the window was visually checked on any damages present in advance (for instance transport damage) and these have been taken into account in the assessment.

After the tests:

- the window was visually assessed
- the temporary protection film was visually assessed
- the temporary protection film was removed
- the window under the temporary protection film was visually assessed
- the thickness of the film was measured at various locations.

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RESULTS

Summary of the result

The temporary film to protect the window against metal grinding and welding sparks performed well in the test setup chosen by SGS Intron and the client. We have not observed any damage to the protected side of the glass and window frame, after the selected exposition regime.

The tests can also be viewed on our SGS YouTube channel via this link or QR code.

- SGS INTELLIGENT PROTECT Product Testing: **https://youtu.be/FXZWcjN7fP8**

Further test details are presented in the following paragraphs.

Result details: Visual assessment

Protected side of the Window	Unrotected side of the Window
Film No visible damage	No Film Not relevant
Glass No visible damage	Glass Extensive damage from the sparks and from welding drops
Vertical part of the window frame No visible damage	Vertical part of the window frame Some damage from the sparks and considerable damage from the welding drops
Horizontal part of the window frame No visible damage	Horizontal part of the window frame Some damage from the sparks and considerable damage from the welding drops

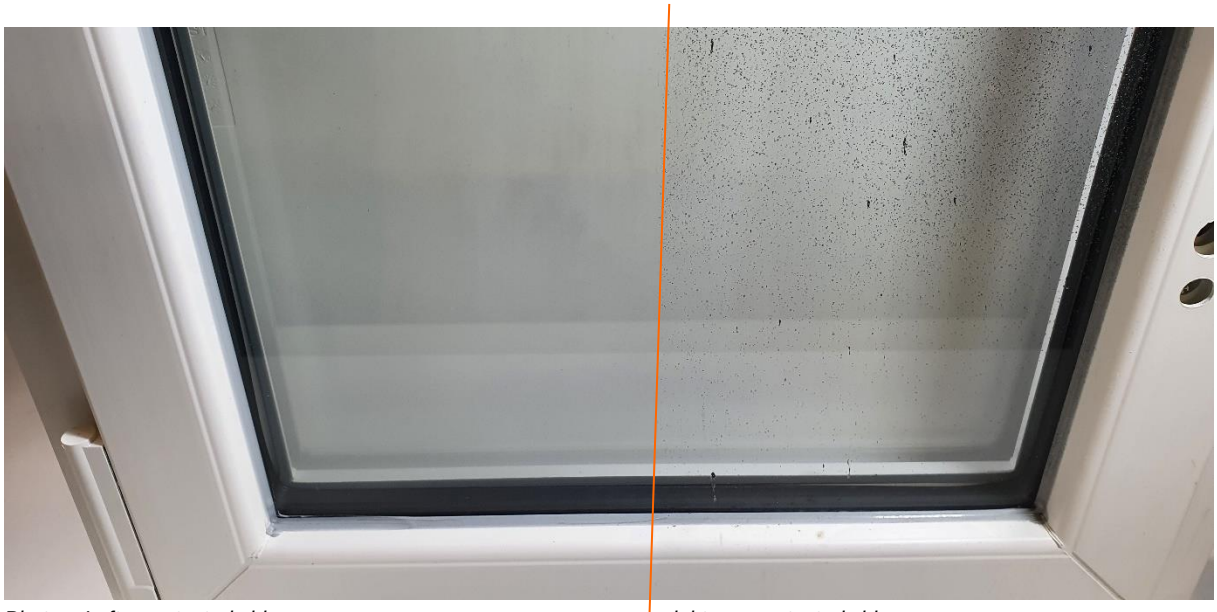

Photo – Left = protected side *right = unprotected side.*

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Result details: film thickness

Measurement Location	Glass	Window Vertical	Window Horizonta
1	320	220	210
2	330	190	260
3	210	150	160
4	260	140	150
5	240	240	
6	240	200	
7	220	400	
8	350	410	
9	360	340	
10	360	270	
Average	289	256	195
min.	210	140	150
max.	360	410	260