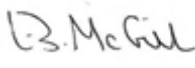



Report No	2371/9681750 Part 1 of 2	This Report consists of 3 pages
Licence/Certificate No	Not applicable	
Client	CP Films Vertriebs GmbH Katzbergstraße 1a Langenfeld (Rheinland) 40764 Germany	
Authority & date	BSI Quotation reference: BSI 0000888008	
Items tested	Specimens of 4.00mm clear Monolithic Annealed Glass with LLumar SCL SR PS8 film applied	
Specification	BS EN 356:2000 Glass in building – Security glazing – testing and classification of resistance against manual attack	
Results	Pass: Classified in accordance with EN 356-P1A	
Prepared by	L McGill 	Senior Test Engineer
Authorized by	M Manito 	Team Manager
Issue Date	23 November 2018	
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.	

TEST AND EXAMINATION OF GLASS IN BUILDING

INTRODUCTION

At the request of CP Films Vertriebs GmbH the glass samples detailed below, were tested and assessed against requirements of BS EN 356:2000 Clause 6.1 Hard body drop test, as indicated on the following pages of this Report. This request was made on BSI Quotation number BSI 0000888008. It is emphasized that assessments were not made against other clauses of the Specification.

Three samples were tested with a film that was applied on the underside of the impacted face.

Date samples received: 02 November 2018

Date started: 19 November 2018

Date Completed: 20 November 2018

TEST ITEMS

- 1) 10 off 1100 x 900mm clear annealed glass samples with a nominal thickness of 4.00mm

Model :- LLumar SCL SR PS8 Safety Film

Manufacturer's stated nominal film thickness:- 200 Micron

SUMMARY OF RESULTS

The test samples were tested to the method described in BS EN 356:2000 Clause 6.1 Hard body drop test

The results of which are as follows:-

TEST ITEMS	Category	Drop height (mm)	ASSESSMENT
1)	P1A	1 500	Pass

Hard body drop test Category (P1A) 1500mm Drop height**Sample 1 (Impacted on non-film side)**

Impact point	Observation	Slippage (mm)	Assessment
1	Ball did not pass through glass	Nil	Pass
2	Ball did not pass through glass	Nil	Pass
3	Ball did not pass through glass	Nil	Pass

Sample 2 (Impacted on non-film side)

Impact point	Observation	Slippage (mm)	Assessment
1	Ball did not pass through glass	Nil	Pass
2	Ball did not pass through glass	Nil	Pass
3	Ball did not pass through glass	Nil	Pass

Sample 3 (Impacted on non-film side)

Impact point	Observation	Slippage (mm)	Assessment
1	Ball did not pass through glass	Nil	Pass
2	Ball did not pass through glass	Nil	Pass
3	Ball did not pass through glass	Nil	Pass

End of Report