Technical Construction File

EN 14351-1:2006+A2:2016

Windows and doors —Product standard, performance characteristics —Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics

Report reference No.....:	TCGD24082261404
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Date of issue.....:	August 26, 2024
Reviewing laboratory.....:	Shanghai Global Testing Services Co., Ltd.
Reviewing location.....:	Floor 3rd, Building D-1, No. 128, Shenfu Road, Minhang District, Shanghai, China.
Applicant.....:	Foshan Kimberton Curtain Wall Doors and Windows Co., Ltd.
Address.....:	No.5, Zone A, Dalian Buddha Pottery Industrial Park, Guanyao, Shishan Town, Nanhai District, Foshan City
Manufacturer.....:	Foshan Kimberton Curtain Wall Doors and Windows Co., Ltd.
Address.....:	No.5, Zone A, Dalian Buddha Pottery Industrial Park, Guanyao, Shishan Town, Nanhai District, Foshan City
Factory.....:	The same as Manufacturer
Address.....:	The same as Manufacturer
Standard.....:	☒ EN 14351-1:2006+A2:2016
Review Report Form No.....:	14351-1
TRF originator.....:	GTS
Master TRF.....:	Reference No. EN 14351-1:2006+A2:2016
Review procedure .....:	GTS
Type of Review object.....:	Aluminum door and window
Model/type reference.....:	Sliding Window 132 Series Sliding door 195 series Sliding door 160 series Sliding door 130 series Sliding door 105 series: Side hung window 120 series Side hung window 110 series Side hung window 70 series Casement window 55 series Flat door 110 series Flat door, my 70 series

Models related to this report	128-25 series aluminum alloy sliding window, three rail with sand
Rating.....:	/

Possible review case verdicts: - review case does not apply to the test object.....: N(.A.) - review object does meet the requirement.....: P(ass) - review object does not meet the requirement.....: F(ail)
General remarks:
"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The review results presented in this report relate only to the object reviewed. This report shall not be reproduced except in full without the written approval of the third party.

Testing:	
Date of receipt of review item:	August 22, 2024
Date(s) of performance of review:	August 22, 2024 to August 26, 2024

General product information: Aluminum door and window
Summary of reviewing: This review report includes: Photo documentation:1 pages
Copy of marking plate

Aluminum door and window , Model 128-25 series aluminum alloy sliding window, three rail with sand Foshan Kimberton Curtain Wall Doors and Windows Co., Ltd.	CE

EN 14351-1:2006+A2:2016			
Clause	Requirement – Test	Result - Remark	Verdict
4	Performance characteristics and special requirements		-
4.1	General		-
	The performance characteristics for windows and external pedestrian doorsets shall be determined and expressed in accordance with 4.2 to 4.23.		-
4.2	Resistance to wind load		-
	Tests on windows and external pedestrian doorsets shall be carried out in accordance with EN 12211. Classification according to EN 12210.		P
4.3	Resistance to snow and permanent load		-
	The manufacturer shall provide sufficient information on the infill to enable the determination of the load-bearing capacity of the infill, e.g. information on the thickness and type of glass.	Not claimed	N/A
4.4	Fire characteristics		-
4.4.1	Reaction to fire		-
	The (materials used in) roof windows shall be tested and classified in accordance with EN 13501-1.	In accordance with EN 13501-1.	P
4.4.2	External fire performance		-
	Roof windows shall be tested and classified in accordance with EN 13501-5.		N/A
4.5	Watertightness		-
	A watertightness test shall be carried out in accordance with EN 1027, Method 1A. Classification according to EN 12208.		P
4.6	Dangerous substances		-
	In so far as the state of the art permits, the manufacturer shall establish those materials in the product which are liable to emission or migration during normal intended use and for which emission or migration into the environment is potentially dangerous to hygiene, health or the environment.	No dangerous substances.	P
4.7	Impact resistance		-

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Clause	Requirement – Test	Result - Remark	Verdict
	Windows and external pedestrian doorsets fitted with glass or other fragmental material shall be tested and the results shall be expressed in accordance with EN 13049. Where relevant, the test shall be carried out from both sides.		P
4.8	Load-bearing capacity of safety devices		-
	Safety devices (e.g. retaining and reversing catches, restrictors, and fixing devices for cleaning procedures), if provided and engaged in accordance with the manufacturer's published instructions, shall be able to hold the leaf, casement or sash in place for 60 s when 350 N are applied to the leaf, casement or sash in the most unfavourable way (i.e. position, direction). This threshold strength shall be demonstrated by means of tests carried out as described in EN 14609 or EN 948 (reference methods), or by calculation.		P
4.9	Height and width of doorsets and French windows		-
	The clear opening height and width of external pedestrian doorsets and French windows (see EN 12519:2004, 3.1) shall be expressed in mm. Where the threshold and the head/transom are not parallel, the maximum and minimum height shall be stated.		N/A
4.10	Ability to release		-
	Doorsets intended for escape routes shall be identified as such with the appropriate class according to Table 2.		N/A
4.11	Acoustic performance		
	The sound insulation shall be determined in accordance with EN ISO 140-3 (reference method) or for specific window types in accordance with Annex B.		P
4.12	Thermal transmittance		N/A
4.13	Radiation properties		-
	The determination of the total solar energy transmittance (solar factor, g-value) and light transmittance of translucent glazings shall be carried out in accordance with EN 410, or if relevant, with EN 13363-1 or EN 13363-2 (reference method).		N/A
4.14	Air permeability		

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Clause	Requirement – Test	Result - Remark	Verdict
	Two air permeability tests shall be carried out in accordance with EN 1026, one with positive test pressures and one with negative test pressures. Classification according to EN 12207.		P
4.15	Durability		N/A
4.16	Operating forces		-
	Manually operated windows shall be tested in accordance with EN 12046-1. The results shall be expressed in accordance with EN 13115.		P
4.17	Mechanical strength		-
	Windows shall be tested in accordance with EN 14608 and EN 14609. Prior to and after those tests manually operated windows shall be tested in accordance with EN 12046-1. The results shall be expressed in accordance with EN 13115.		P
4.18	Ventilation		-
	Air transfer devices integrated in a window or an external pedestrian doorset shall be tested and evaluated in accordance with EN 13141-1:2004, 4.1. Joints and openings not subject to testing shall be taped over. The results shall include:		N/A
4.19	Bullet resistance		-
	After testing in accordance with EN 1523 the bullet resistant characteristics of windows and external pedestrian doorsets shall be expressed in accordance with EN 1522.		N/A
4.20	Explosion resistance		-
4.20.1	Shock tube		-
	After testing in accordance with EN 13124-1 the explosion resistance characteristics of windows and external pedestrian doorsets shall be expressed in accordance with EN 13123-1.		N/A
4.20.2	Range test		-
	After testing in accordance with EN 13124-2 the explosion resistance characteristics of windows and external pedestrian doorsets shall be expressed in accordance with EN 13123-2.		N/A
4.21	Resistance to repeated opening and closing		-

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Clause	Requirement – Test	Result - Remark	Verdict
	A repeated opening and closing test shall be carried out in accordance with EN 1191. The results shall be expressed in accordance with EN 12400.		P
4.22	Behaviour between different climates		-
	A climate test on windows with frames manufactured from a combination of materials shall be carried out in accordance with ENV 13420.		N/A
4.23	Burglar resistance		-
	After testing in accordance with ENV 1628, ENV 1629 and ENV 1630 the results shall be expressed in accordance with ENV 1627.		N/A
4.24	Special requirements		-
4.24.1	Unframed glass doorsets		-
	Glass in unframed glass doorsets shall comply with EN 1863-2, EN 12150-2, EN ISO 12543-2, EN 14179-2 or EN 14321-2.		N/A
4.24.2	Power operated windows		N/A

Photo documentation:

Type of equipment, models: Aluminum door and window
128-25 series aluminum alloy sliding window, three rail with sand

Details of:

View:

[X] general

[ ] front

[ ] rear

[ ] right

[ ] left

[ ] top

[ ] bottom



- End of Report -