
Application No.
GQTS/C20100402

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Test Report

Company Name:

Company Address:

Product Name: Panic exit device

Copy of marking plate



EN 1125:2008(E)

Panic exit device

Type	3	6	5	A	1	3	2	2	A	A
10										
Ability to release	Pass									
Durability of ability to release	Pass 100 000 cycles / ≤ 50 N									

Test item particulars

Classification of installation and use.....: Doors to shops, hospitals, schools and other buildings which provide access to designated areas

Test case verdicts

Test case does not apply to the test object.....: N/A

Test item does meet the requirement.....: P (Pass)

Test item does not meet the requirement.....: F (Fail)

Testing

Date of receipt of test item.....: May. 06, 2010

Date(s) of performance of test.....: May. 23, 2010

General product information:

Detail "Ratings" Information listed as following:

grade 3: high frequency of use where there is little incentive to exercise care, i.e. where there is a chance of an accident occurring and of misuse.

Durability (2nd character): grade 6: 100 000 test cycles.

Door mass (3rd character): grade 5: up to 100 kg.

Suitability for use on fire/smoke doors (4th character):

grade A: Suitable for use on smoke door assemblies - based on the requirements of B.1.

Safety (5th character): grade 1: all panic exit devices have a critical safety function, therefore only the top grade is identified for the purpose of this European Standard.

Corrosion resistance (6th character): grade 3: 96 h

Security (7th character): grade 2: panic exit devices are primarily for the operation of a door from the inside and the security requirements are secondary to those of safety.

Projection of horizontal bar (8th character): grade 2: projection up to 100 mm (standard projection).

Type of horizontal bar operation (9th character): type A: panic exit device with "push-bar" operation.

Field of door application (10th character): category A: single door, double door: active or inactive leaf;

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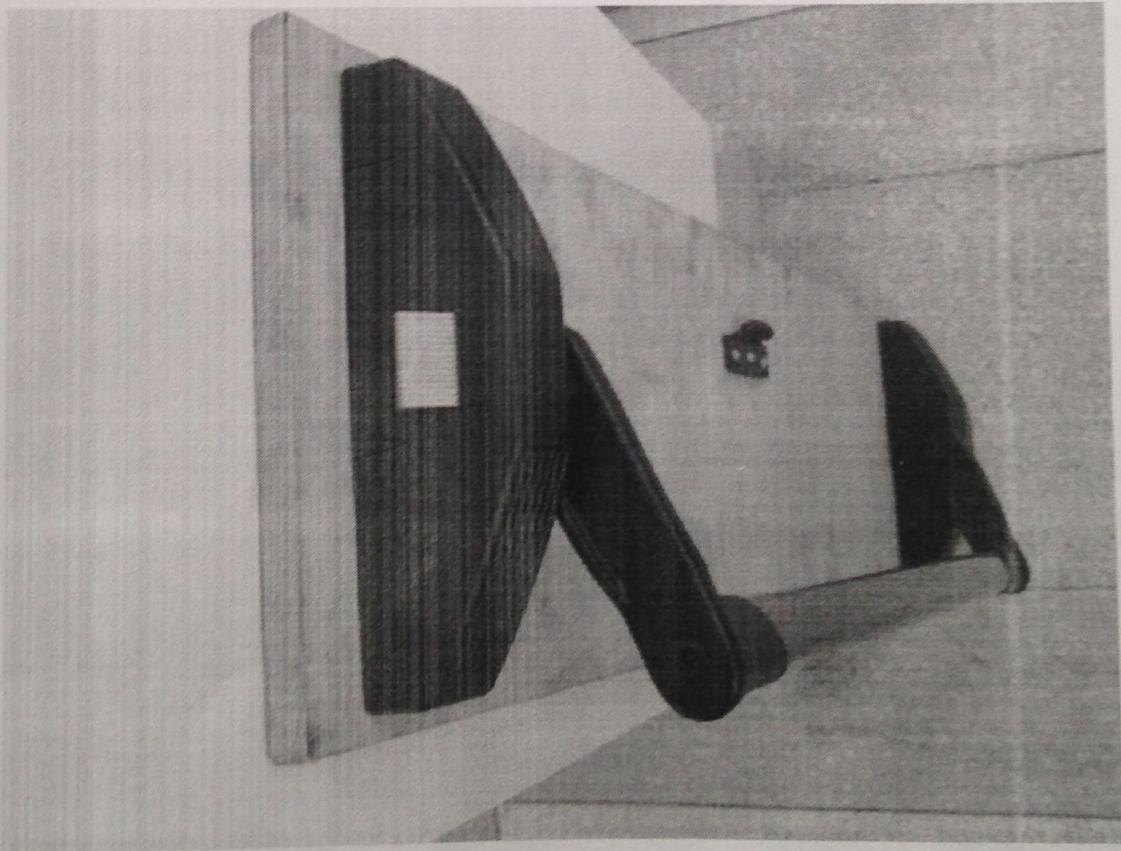
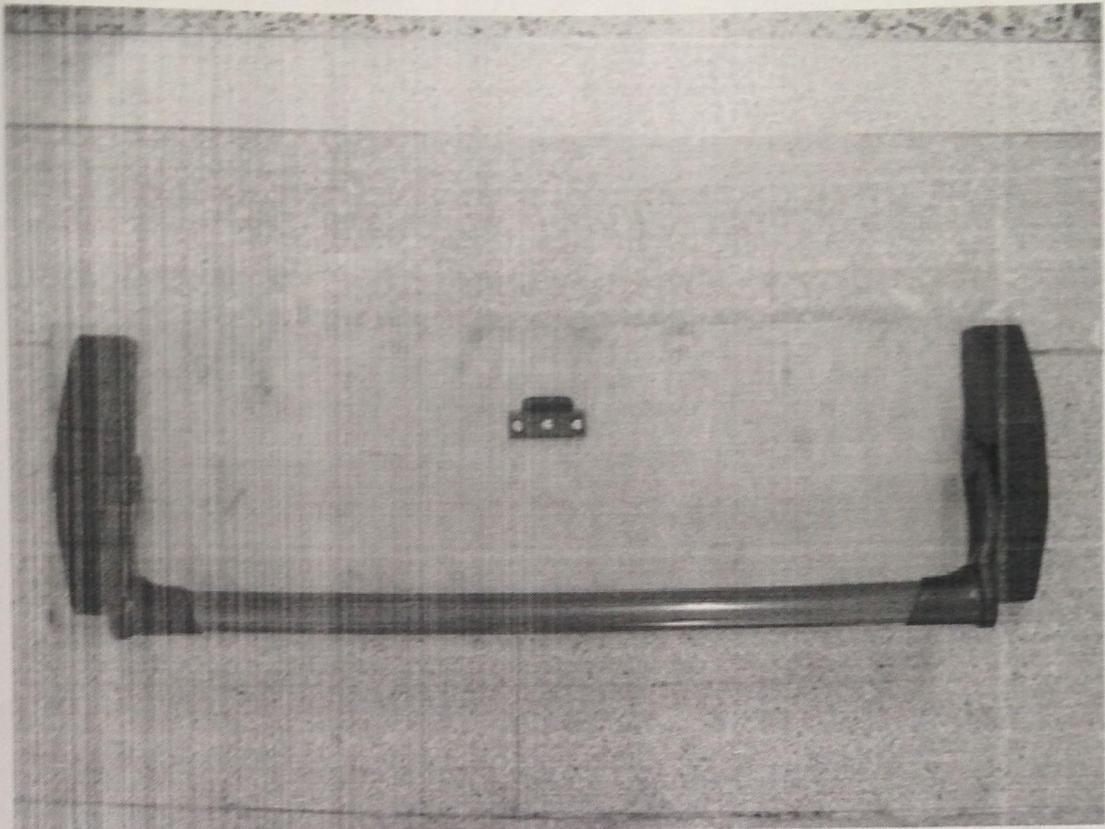
Security (7th character): grade 2: panic exit devices are primarily for the operation of a door from the inside and the security requirements are secondary to those of safety.

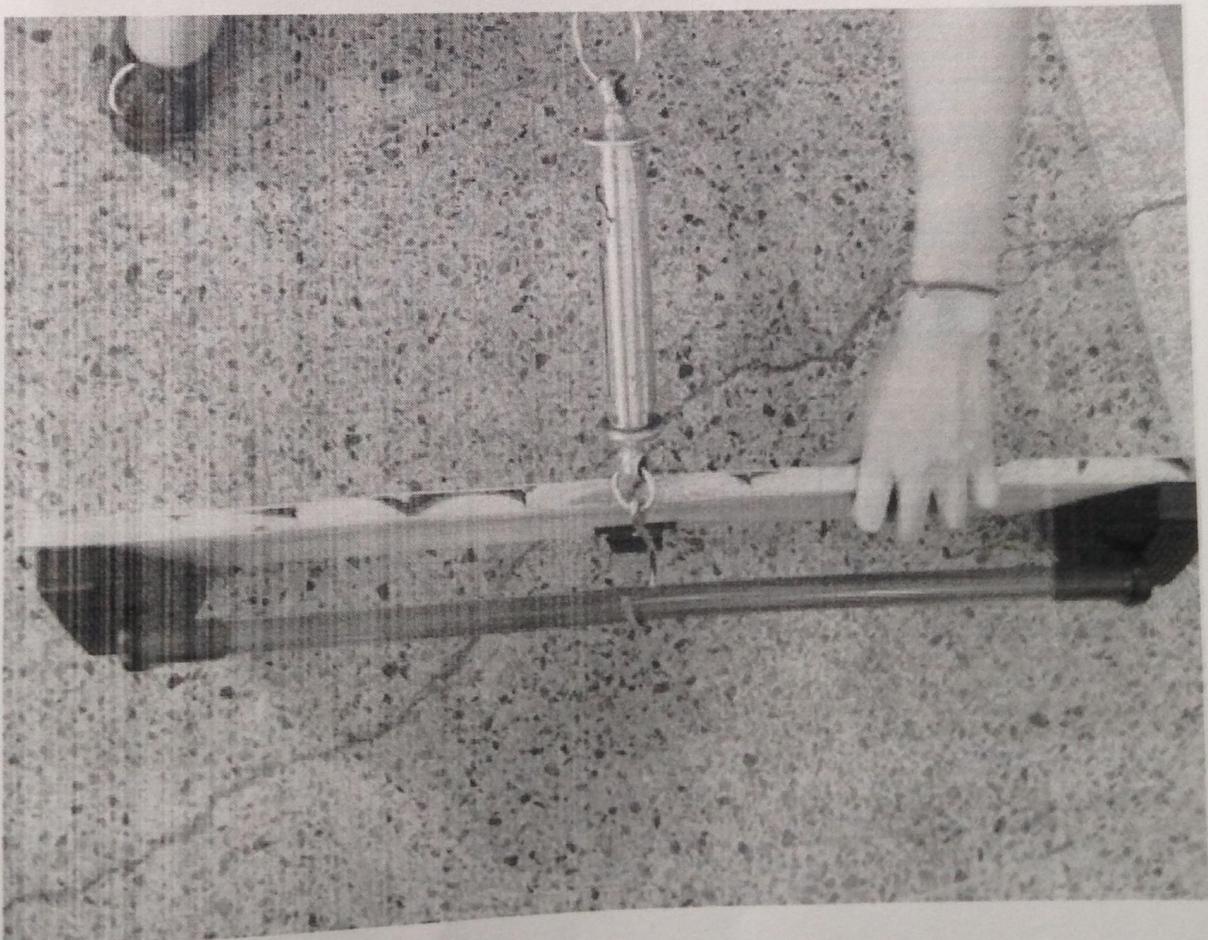
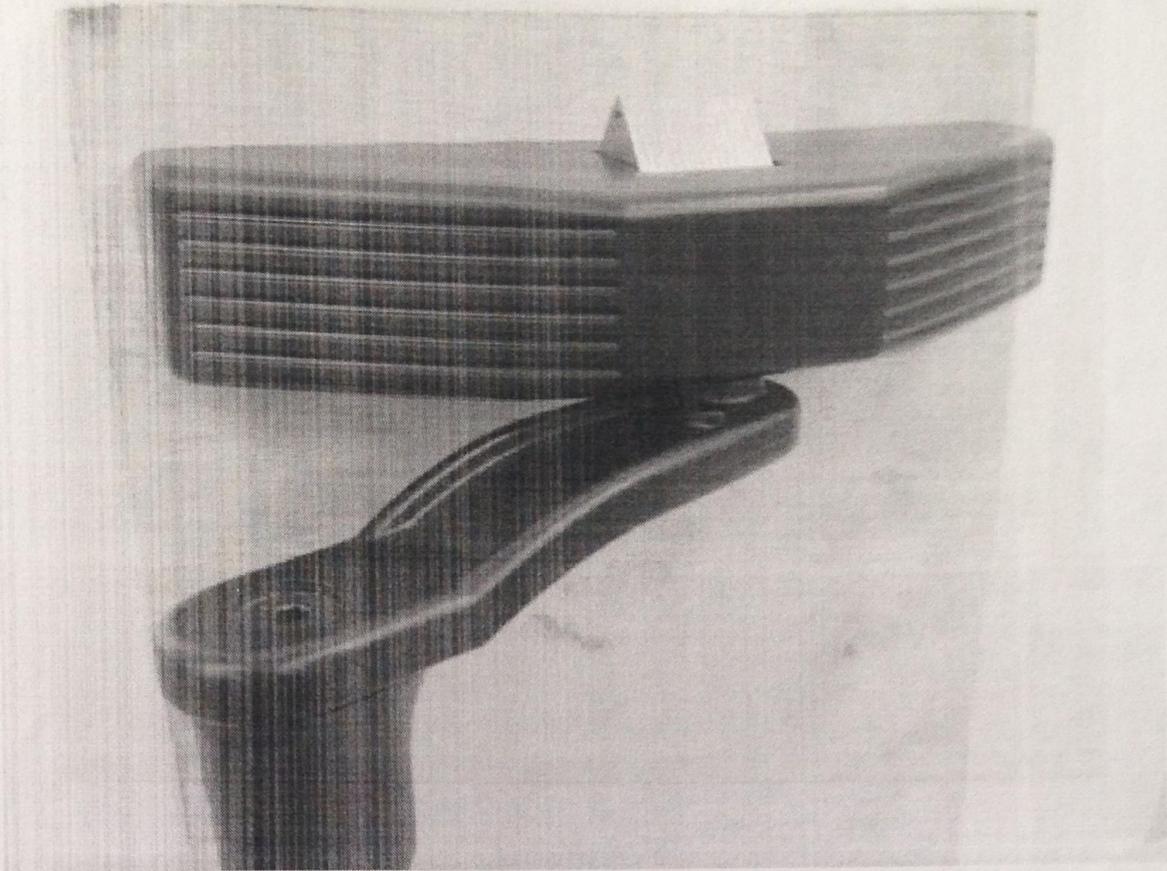
Projection of horizontal bar (8th character): grade 2: projection up to 100 mm (standard projection).

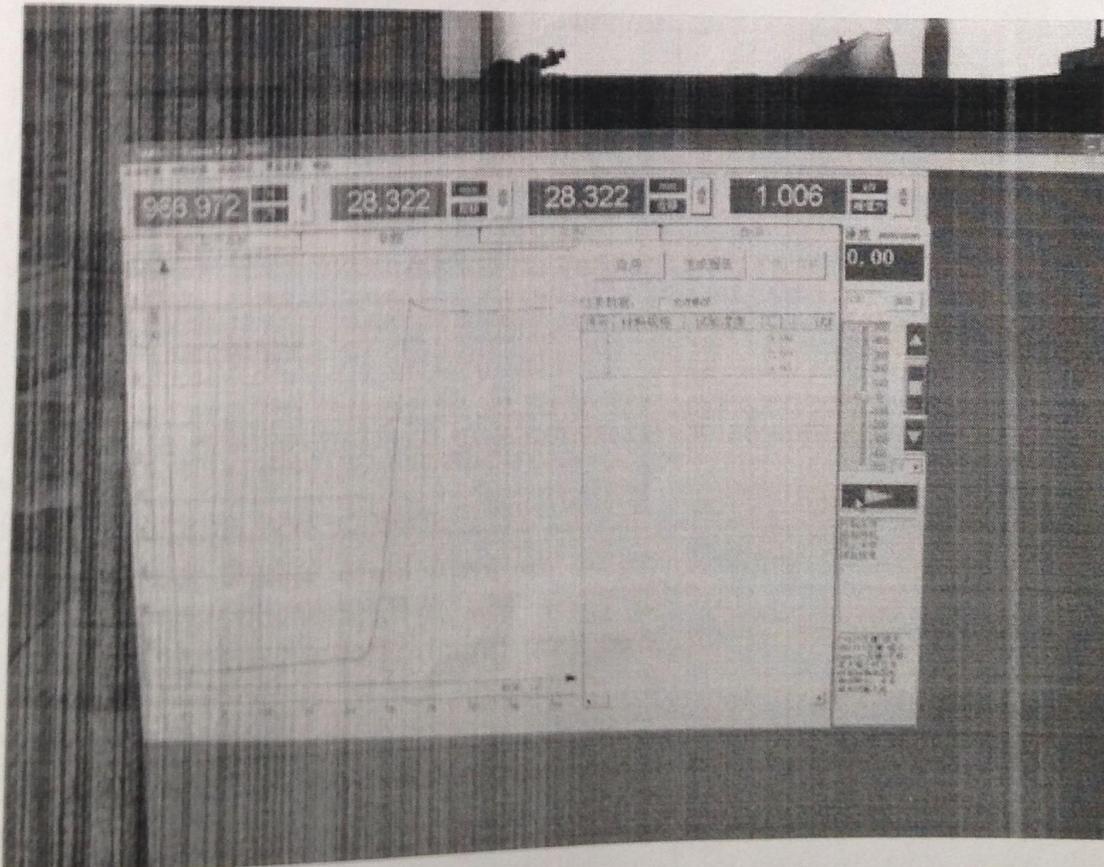
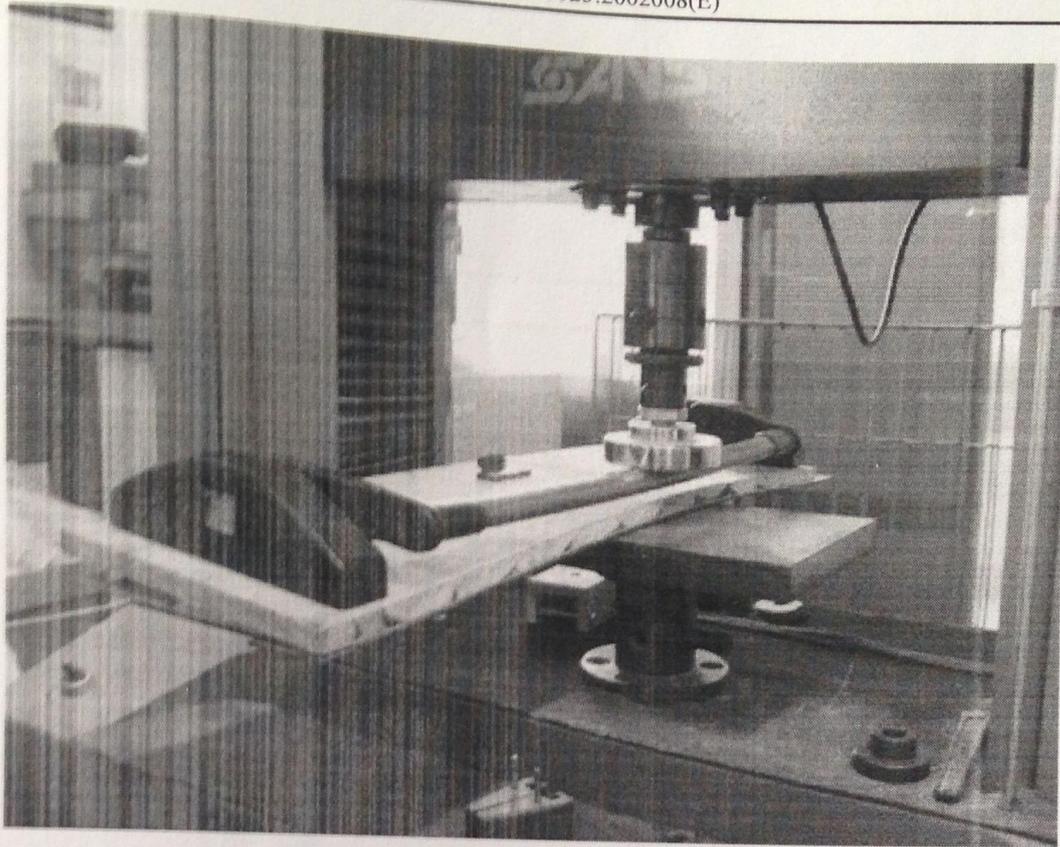
Type of horizontal bar operation (9th character): type A: panic exit device with "push-bar" operation.

Field of door application (10th character): category A: single door, double door: active or inactive leaf;

1.7 Photograph of Product





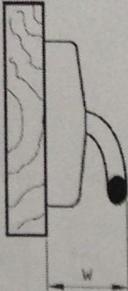


2 Test

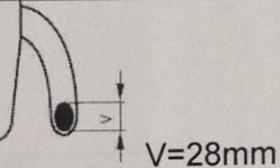
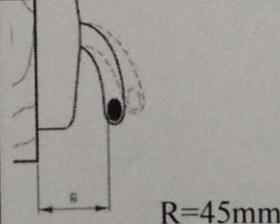
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Cl.	Requirement – Test	Result	Verdict
1	Scope	Specifically designed for use in a panic situation on escape routes.	—
2	Normative references	—	—
3	Terms and definitions	—	—
4	Requirement	—	—
4.1	Design requirements	—	—
4.1.1	General	—	—
	Compliance with design requirements shall be as table 1	Comply	Pass
4.1.2	Release function device	—	—
	The operation of the horizontal bar shall enable immediate exit from the inside at all times regardless of any auxiliary locking and/or unlocking means being incorporated, such as a deadbolt or outside access device.	Comply	Pass
	Compliance shall be verified by visual inspection, functional tests and/or measurements.		Pass
4.1.3	Panic exit device mounting	—	—
	A panic exit device, with the exception of the horizontal bar, shall be designed to be mounted either on the inside face of, or within, a door. Compliance shall be verified by visual inspection.		Pass
4.1.4	Corrosion resistance	—	—
	The corrosion resistance shall comply with 4.2.9 or be at least grade 3 in accordance with EN 1670:2007, 5.6.	The corrosion resistance shall comply with 4.2.9	Pass
4.1.5	Exposed edges and corners	—	—
	A panic exit device shall have all edges and exposed corners, that are likely to cause injury to persons using the exit, rounded to a radius of not less than 0,5 mm.	Comply	Pass
	Compliance shall be verified by visual inspection and measurements.		Pass
4.1.6	Temperature range	—	—
	Materials selected in the design of a panic exit device shall be suitable for the operation of the panic exit device between temperatures of -10 °C and +60 °C.	Select materials to meet the requirements	Pass

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Cl.	Requirement – Test	Result	Verdict
	This requirement shall be verified by the test specified in 6.2.2. The maximum operating force at -10 °C and at +60 °C shall not exceed 50 % in excess of the operating forces measured at 20 °C.	The maximum operating force is 110N.	Pass
4.1.7	Double door set	Inadaptation	N/A
	The design of a panic exit device intended for use on double doorset leaves shall allow both leaves to be opened simultaneously and to swing freely in the direction of exit once the door has been released.	—	—
4.1.8	Suitability of panic exit devices for use on smoke/fire resisting doorsets	—	—
	Panic exit devices that are suitable for use on smoke/fire resisting doorsets shall conform to the requirements of 4.2.3, 4.2.4, Annex B and be classified according to 7.4.	Conform to the requirements of 4.2.3, 4.2.4	Pass
4.1.9	Bar installation	—	—
	Panic exit devices shall be designed such that the effective bar can be installed at 150 mm (dimension Z) or less from the door stop at the leading edge of the door when the door is in the closed position.	Z = 60mm	Pass
4.1.10	Bar length	—	—
	The design of a panic exit device shall be such that the effective length (dimension X) of the horizontal bar shall be as near as possible to the effective width (dimension Y) of the door opening for which it is recommended, but never less than 60 %.	Y / X never less than 60 %	Pass
4.1.11	Bar projection	—	—
	No part of a panic exit device, when the door is in any position, shall project (dimension W) from the face of the door more than: a) category 1: projection up to 150 mm (large projection); b) category 2: projection up to 100 mm (standard projection). Compliance shall be verified by visual inspection and measurements	 W=100mm	Pass
4.1.12	Bar end	—	—

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Cl.	Requirement – Test	Result	Verdict
	The operating bar of a panic exit device shall not protrude beyond either of the end support brackets. In the case of a double doorset panic exit device, the requirement shall apply to each end of each bar. Compliance shall be verified by visual inspection.	Comply	Pass
4.1.13	Operating bar face	—	—
	For type A panic exit devices, when secured in position the vertical axis or height (dimension V) of the operating face of the push-bar shall be not less than 18 mm.		Pass
	For type B panic exit devices, when secured in position the vertical axis or height (dimension V) of the operating face of the touch-bar shall be not less than 18 mm.	type A	N/A
	Where the operational member is situated within the non-operational member, the height (dimension V) of the operating face of the touch-bar shall be at least 60 % of the overall height (dimension U) of the panic exit device measured anywhere within the effective length of the bar. When the touch-bar is fully depressed, the touch-bar face shall not protrude less than 3 mm (dimension T) beyond any non-operable member, and not be less than 25 mm (dimension S) from the face of the door.	type A	N/A
4.1.14	Test rod	—	—
	To reduce the risk of trapping fingers and/or the blocking of the panic exit device, any gap shall not trap a test rod (of 10 mm diameter by 100 mm in length) by its 10 mm diameter in any position during the operation of the panic exit device.	Comply	Pass
4.1.15	Door face gap	—	—
	The gap between a horizontal bar and the door face or exit device support shall be not less than 25 mm (dimension R) at any position of bar travel to reduce the risk of trapped fingers.		Pass

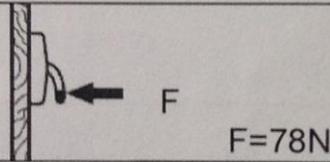
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Cl.	Requirement – Test	Result	Verdict
	Where a type B panic exit device allows spacing between the operating bar and the door face, this spacing shall not be less than 25 mm when the touch-bar is fully depressed (same as dimension R for type A devices).	type A	N/A
4.1.16	Accessible gap	—	—
	Chassis or other mounting assembly does not contain any accessible gap that could inadvertently be blocked by a foreign object, resulting in failure of the panic exit device to operate.	Comply	Pass
	A steel test piece of 10 mm x 15 mm x 20 mm placed in any accessible gap and in any orientation shall not prevent correct operation of the panic exit device.	Comply	Pass
4.1.17	Door free movement	—	—
	The design of a panic exit device shall be such that the bolt head(s), once the door has been released to open, does not restrict or impede the free movement of the door.	Comply	Pass
	The design of a panic exit device can include a dogging mechanism or an automatic relatching device.		—
	If the exit device is equipped with a dogging mechanism or a device retaining the bolt(s) retracted, this shall not impede the free movement of the door once released.		—
	An exit device shall be designed to avoid accidental release of the bottom bolt, preventing the free opening of the door.		—
	Exit devices intended for use on smoke/fire resisting doors, shall comply with Annex B for additional requirements.		Pass
4.1.18	Top vertical bolt	—	N/A
	A panic exit device with top and bottom vertical rods shall include a mechanism to ensure that the releasing and/or the manipulation of the bottom vertical rod bolt head does not release the top vertical rod bolt head. This is verified by pushing the bottom bolt head up to its flush position with the bolt case.		—
4.1.19	Covers for vertical rods	—	N/A

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Cl.	Requirement – Test	Result	Verdict
	If covers are provided to surface fixed vertical rods to achieve abuse resistance, they shall have secure fixings and only be removable by means of a specific tool. Compliance shall be verified by visual inspection and functional tests, or (if not removable by a specific tool) the panic exit device shall meet the performance requirements of 4.2.6 with the covers removed.		—
4.1.20	Keepers	No the Keepers	N/A
	The design of a panic exit device shall include a keeper(s) for engaging the bolt head(s) when the panic exit device is in the secured position.		—
	Keepers shall provide protection for any part of the door or frame that could be damaged by the panic exit device during the opening and closing cycle of the door.		—
4.1.21	Keepers dimensions	No the Keepers	N/A
	The design of a floor keeper shall be such that dust and dirt can easily be removed with a conventional vacuum cleaner. If the keeper is not fitted flush, it shall not exceed 15 mm in height (dimension H) from the finished floor level and shall be chamfered in the direction of escape at an angle (M) not exceeding 45° from the horizontal, and any up stand (dimension P) shall not exceed 3 mm.		—
4.1.22	Lubrication	—	—
	Where periodic lubrication is required, it shall be possible to lubricate without dismantling the panic exit device.	See instruction manual	Pass
	No additional lubrication shall be required before 20 000 cycles have been attained and at no less interval than 20 000 cycles thereafter.	Comply	Pass
4.1.23	Door mass and dimensions	—	—
	The door mass and door dimensions shall be limited to the following for the purposes of a panic exit device tested on a test door in accordance with 5.2.2:		—
4.1.24	Outside access device	Not found	N/A

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Cl.	Requirement – Test	Result	Verdict
	The provision for a connection of an outside access device (key, cylinder, lever handle, knob, etc.) shall not, in any way, render the panic exit device inoperable from the inside, whether the outside access device is tested in the fully locked or unlocked position with the key removed.		—
	The installation instructions shall clearly indicate the approved configurations for outside access		—
4.1.25	Dangerous substances	—	—
	Materials in products shall not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations.	Compliance shall be verified by visual inspection of documents supplied by the producer.	Pass
4.2	Performance requirements	—	—
4.2.2	Release forces	—	—
4.2.2.1	Release forces with door not under pressure	—	—
	When a panic exit device is tested in accordance with 6.3.2.1, the force required to release the panic exit device shall not exceed 80 N.		Pass
4.2.2.2	Release forces with door under pressure	—	—
	When a panic exit device is tested in accordance with 6.3.2.2, the door shall not open prior to the release force being applied, and the force required to release the panic exit device shall not exceed 220 N. See Figure 10.	Comply	Pass
4.2.3	Re-engagement force	Inadaptation	N/A
	When a panic exit device is tested in accordance with 6.3.3, the force required to release an automatic relatching device in order to re-engage the panic exit device to the secured position shall not exceed 50 N.		—
	The test in 6.3.3 may be omitted if the panic exit device does not include an automatic relatching device.	I	—
4.2.4	Durability	—	—

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Cl.	Requirement – Test	Result	Verdict
	When a panic exit device is tested in accordance with 6.3.4, the cycling test shall consist of: 100 000 cycles to achieve grade 6; 200 000 cycles to achieve grade 7.	cycling test 100 000 cycles	Pass
	When a panic exit device equipped with a deadbolt only thrown by a key for additional security is tested in accordance with 6.3.4.2, the cycling test of the deadbolt shall consist of: 25 000 cycles to achieve grade 6; 50 000 cycles to achieve grade 7.	No deadbolt	N/A
	A panic exit device may be designed to incorporate an additional deadbolt thrown by a key, used only at certain period of time for additional security. The release function shall be tested with any deadbolt thrown.		N/A
	The durability of the deadbolt does not need to be tested to same number of cycles as either the regular latch bolt or an automatic relatching device, or an automatic deadbolt.		N/A
	Panic exit devices intended for use only on the inactive leaf of a double doorset shall be tested in accordance with 6.3.4.1 (Test 2); the cycling test shall consist of: 10 000 cycles to achieve grade 6; 20 000 cycles to achieve grade 7.		N/A
	when a panic exit device is designed for use on either leaf of a double doorset, or for use on a single door, it shall be tested to the complete number of cycles.		Pass
	After the test, the panic exit device shall continue to be operable and meet the requirements of 4.1.17, 4.2.2 and 4.2.3.		Pass
4.2.5	Abuse resistance – Horizontal bar	—	—
	When a panic exit device is tested in accordance with 6.3.5, the horizontal bar shall withstand a force of 1000 N.	the horizontal bar can withstand a force of 1000 N.	Pass
	After the test, the panic exit device shall meet the requirements of 4.1.14 and 4.1.15 and continue to be operable. The requirements of 4.1.15 shall be checked during the final examination by the tests given in 6.3.8.		Pass

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Cl.	Requirement – Test	Result	Verdict
	A panic exit device with a dogging mechanism shall have the test of 4.2.5 repeated with the panic exit device in the dogged position.	No the dogging	N/A
4.2.6	Abuse resistance – Vertical rods	Inadaptation	N/A
4.2.7	Security requirement	—	—
	When a panic exit device is tested in accordance with 6.3.7 the device shall remain in the locked position and shall keep the door closed when subjected to a force of 1 000 N.	Comply	Pass
	Panic exit devices conforming to this European Standard have a safety rather than a security function.	Comply	Pass
	It is therefore considered essential that the panic exit device should continue to be operable after the application of any abuse test forces.	Comply	Pass
4.2.8	Final examination	—	—
	At the end of the test program the panic exit device shall continue to be operable and meet the requirements of 4.2.2 and 4.1.17.	Comply	Pass
4.2.9	Corrosion resistance	—	—
	When a panic exit device is tested in accordance with 6.2.3, the force required to release the panic exit device shall not exceed: a) 80 N prior to the test; b) 120 N after the test.	the force required not exceed: 80 N	Pass
4.3	Requirements for product information	—	—
	A panic exit device manufactured to this European Standard shall be supplied with clear and detailed instructions for its installation and maintenance.	Have with clear and detailed instructions for its installation and maintenance.	Pass
5	Tests – General and test apparatus	—	—
5.2	Test apparatus	—	—
6	Test methods – Procedures	—	—
6.2	Temperature test	—	—
6.2.3	Corrosion test	—	—
6.3	Test procedure – Test sample B – Design and performance tests	—	—
6.3.2	Release tests	—	—
6.3.3	Re-engaging test	—	—

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Cl.	Requirement – Test	Result	Verdict
6.3.4	Durability test	—	—
6.3.5	Abuse resistance test – Horizontal bar	—	—
6.3.6	Abuse resistance test – vertical rods	—	—
6.3.7	Security test	—	—
6.3.8	Final examination	—	—
7	Classification	—	—
7.1	Category of use (1st character)	3	—
7.2	Durability (2nd character)	6	—
7.3	Door mass (3rd character)	5	—
7.4	Suitability for use on fire/Smoke doors(4th character)	A	—
7.5	Safety (5th character)	1	—
7.6	Corrosion resistance(6th character)	3	—
7.7	Security	2	—
7.8	Projection of horizontal bar(8th character)	2	—
7.9	Type of horizontal bar operation (9th character)	A	—
7.10	Field of door application (10th character)	A	—
8	Marking	—	—
8.1	On the product	—	—
	following information shall be marked on the product: a) CE marking symbol; b) identification number of the certification body; c) producer's name or trademark or other means of positive identification; d) number and year of this European Standard, i.e. EN 1125: 2008; e) full classification of the product; f) month and year of manufacture.	See labels	Pass
8.2	On the packaging	—	—
	The following information shall be marked on the packaging: a) producer's name or trademark or other means of positive identification; b) number and year of this European Standard, i.e. EN 1125:2008; c) producer's product reference number.	The information be marked on the packaging	Pass
8.3	On the installation instructions	—	—
	The information given in Table 4 shall be marked on the installation instructions.	Comply	Pass
9	Evaluation of conformity	—	—

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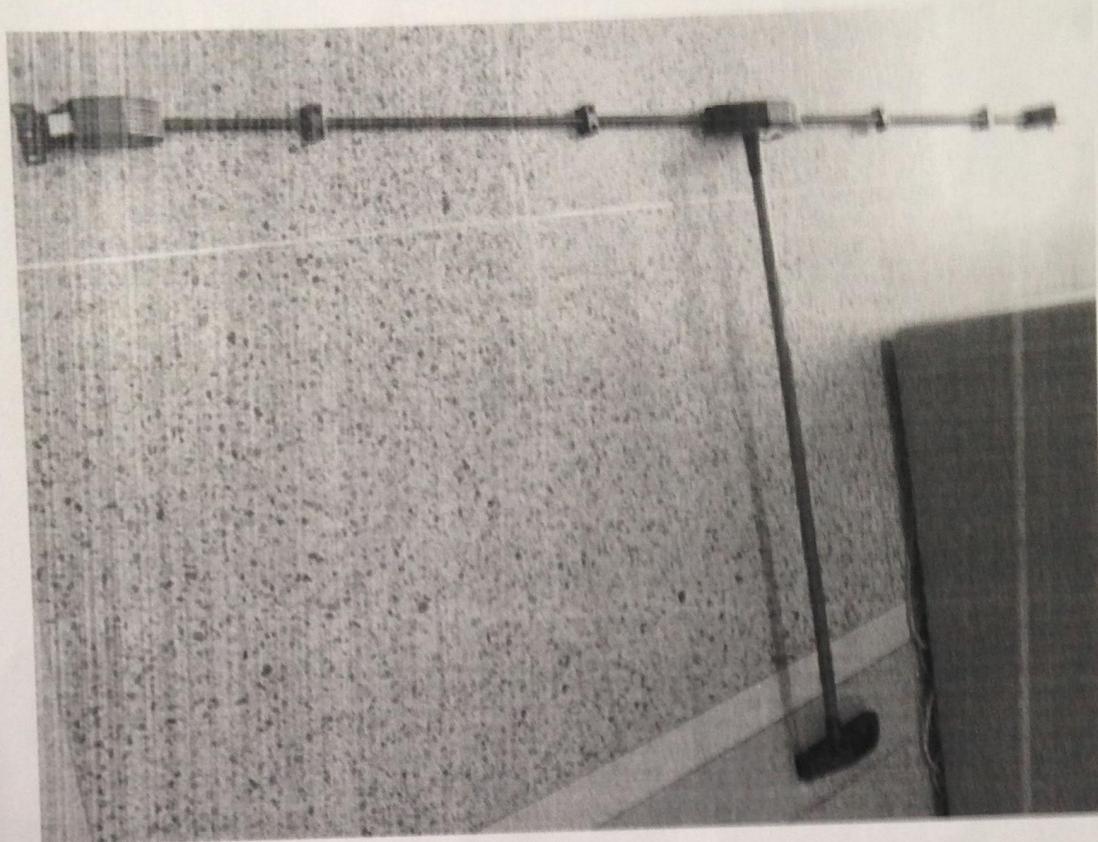
Cl.	Requirement – Test	Result	Verdict
9.1	Initial type test	—	—
9.1.1	General	—	—
	The conformity of the panic exit device to the requirements of this European Standard and with the stated values (including classes) shall be demonstrated by: initial type testing; factory production control by the producer, including product assessment.	Comply	Pass
9.2	Sampling, testing and conformity criteria	—	—
	Samples, selected in accordance with 6.1, representing the series, shall be subjected to the full test sequence in accordance with 6.2 and 6.3 and, where relevant, Annex B.	Comply	Pass
9.3	Factory production control	Through ISO9001 :2008 certification	Pass
9.3.1	General	—	—
	The producer shall establish, document and maintain a factory production control (FPC) system to ensure that the products placed on the market conform to the declared performance characteristics.		Pass
9.3.2	Documents	Draw up and keep up-to-date documents defining the FPC that is applied.	Pass
9.3.3	Traceability and marking	Compliance with EN ISO 9001:2000, 7.5.3	Pass
9.3.4	Non conforming products	Compliance with EN ISO 9001:2000, 8.3	Pass
9.3.5	Corrective action	Compliance with EN ISO 9001:2000, 8.5.2	Pass
9.3.6	Handling, storage and packaging	Have procedures providing methods of product handling and shall provide suitable storage areas preventing damage or deterioration	Pass

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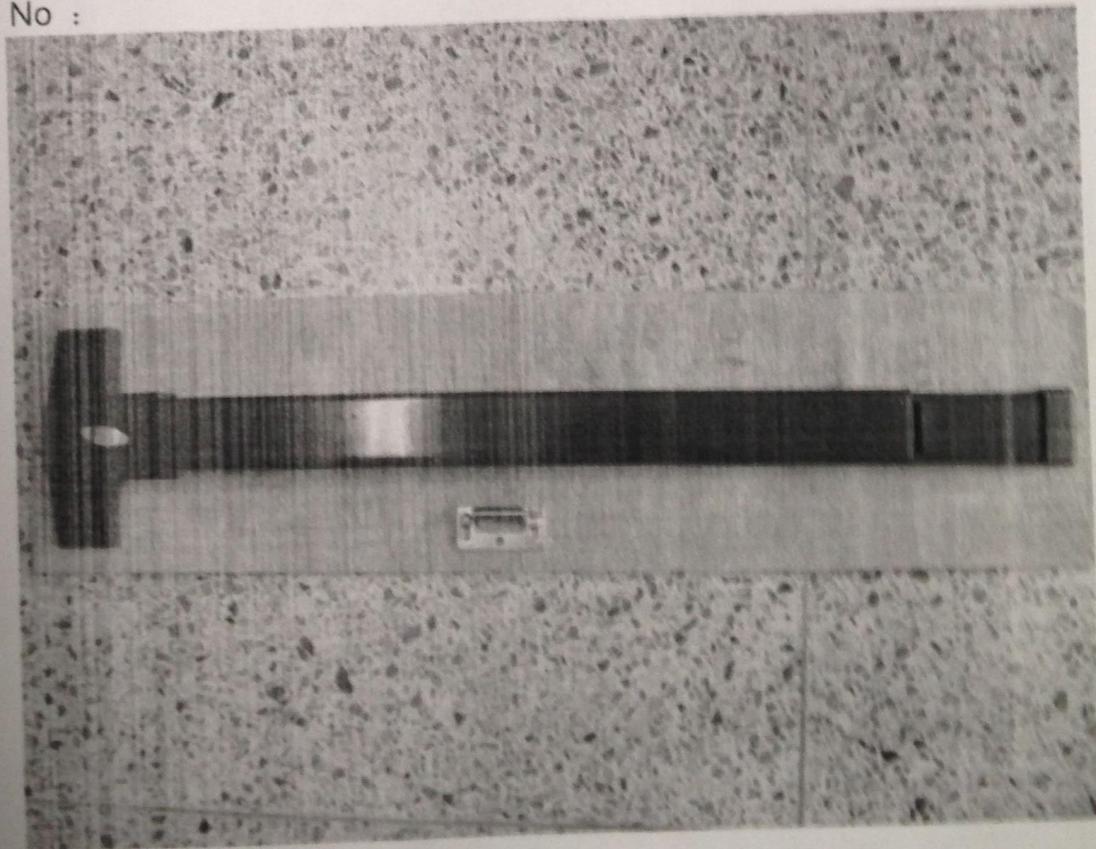
Cl.	Requirement – Test	Result	Verdict
9.3.7	The responsibility, authority and the relationship between personnel that manages, performs or verifies work affecting product conformity, shall comply with the appropriate clause of EN ISO 9001:2000.	Comply	Pass
9.3.8	Equipment	Comply with the appropriate clause of EN ISO 9001:2000.	Pass
9.3.9	Design process	Compliance with EN ISO 9001:2000, 7.3	Pass
9.3.10	Raw material and components	Be in accordance with EN ISO 9001:2000, 7.4.3.	Pass
9.3.11	In-process control	Compliance with EN ISO 9001:2000, 7.5.1 and 7.5.2	Pass
9.3.12	Unit checks during manufacture	the checks given in Table 5	Pass
9.4	Periodic testing (for all products)	According to standards	Pass
9.5	Annual testing (for all products)	According to standards	Pass

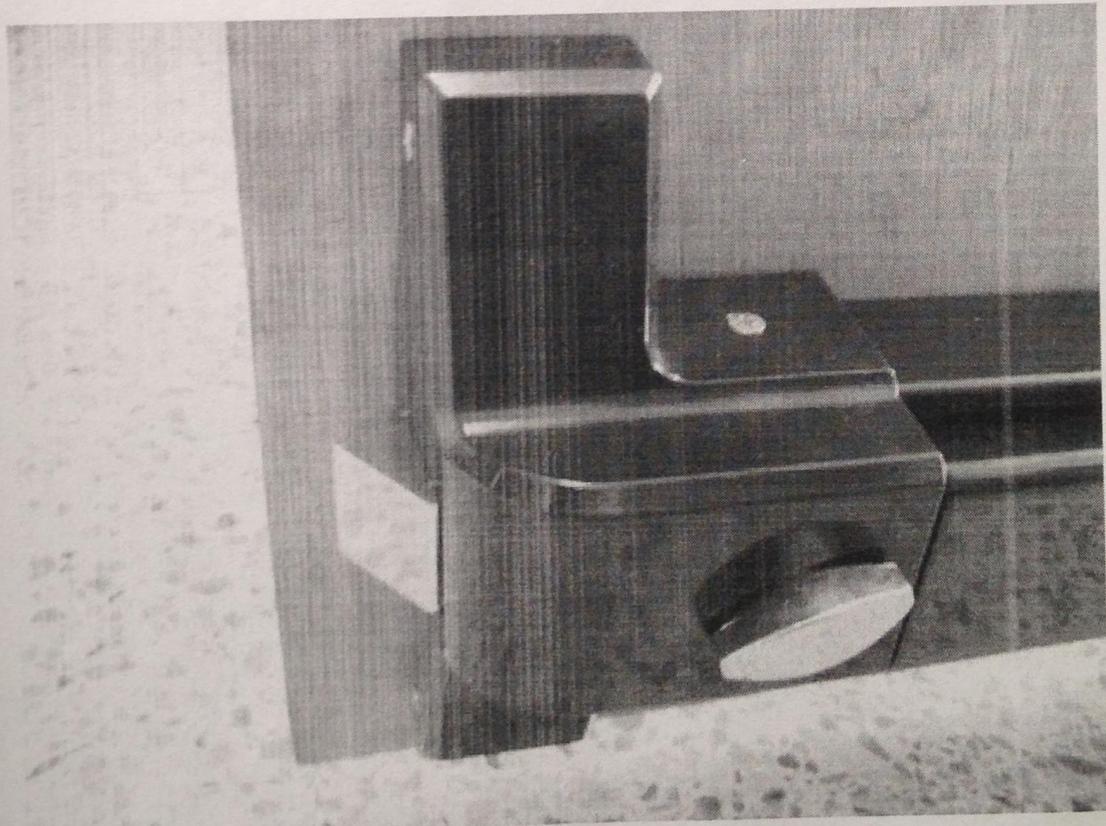
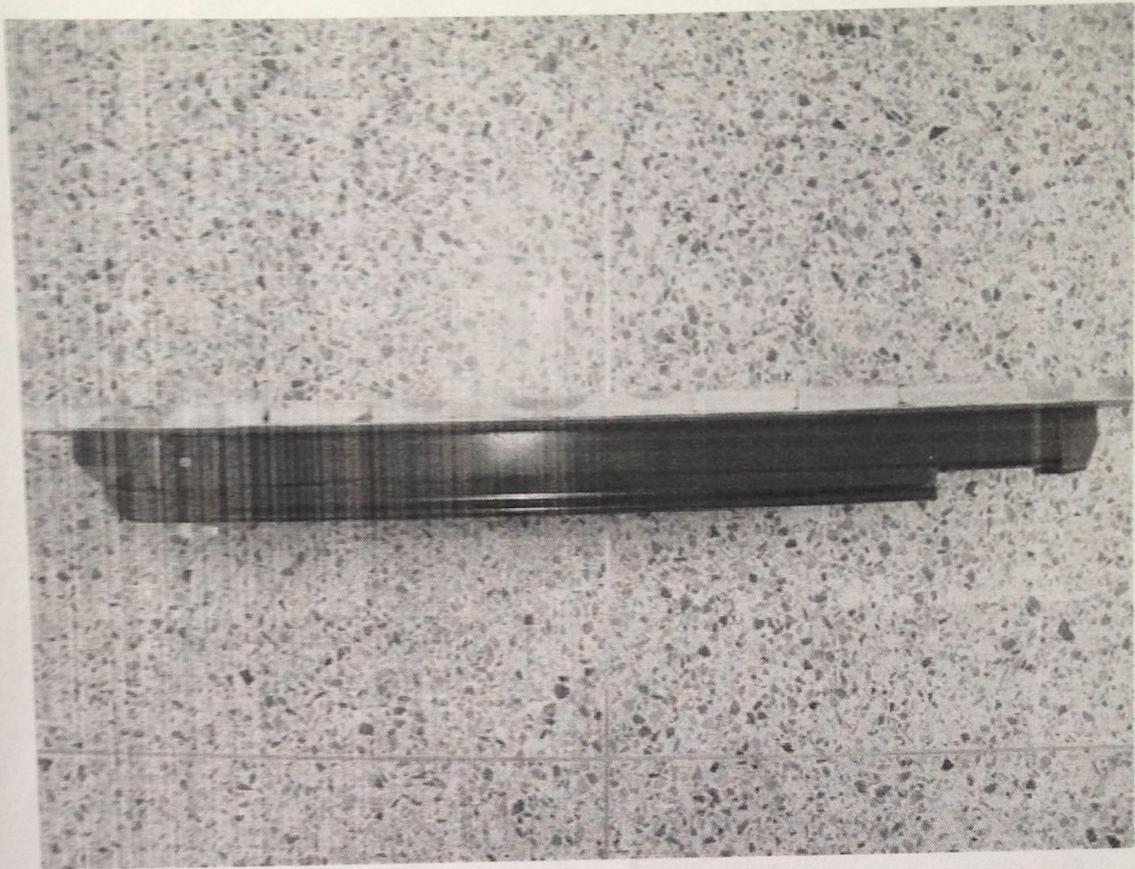
Appendix : Picture of Difference models

Other Item No : 320



Other Item No :





END