



## WHO WE ARE

We are Element, one of the world's leading independent providers of testing, inspection and certification services to a diverse range of industries, where failure "in service" is simply not an option.

Everything we do is aligned to deliver one thing for our customers – Certainty.

We exist to help all of our customers to make certain that the materials and products that they make are safe, quality compliant and ultimately fit for purpose, using our 200 years of testing experience and our global testing capabilities.

That is the Certainty of Element.

## ANNEX A SECURITY HARDWARE AND CYLINDER TEST ASSESSMENT

Manual attack on the locking hardware with small tools plus crowbar, and molegrips, plus a secondary attack using same kit but with the addition of self-cutting traction screws. Two attempts to defeat the locking mechanism for three minutes. Strong hardware that protects the cylinder is required, or a cylinder that is resistant to this type of attack. Cylinder must also meet the requirements of the cylinder vulnerability assessment (anti-bumping) and EN1303 for key related security and anti-drilling.

## ANNEX B

### B.4.3 MANIPULATION TEST

Small tools such as paint scrapers, craft knife and small screwdrivers are used with a maximum attack time of three minutes. A different tool or attack location must be assessed with each separate attack, with a maximum overall test time of 15 minutes.

### B.4.4 GLAZING REMOVAL AND INFILL TEST.

Manual attack test during which chisels and brick bolsters are used to remove the glazing or infill panel for three minutes. Attempts are made to remove the infill but smashing glass is not allowed. Mechanical test which comprises a 2kN push on the corners of the glass or infill panel, to be held for 10 seconds. Cutting test using tools including chisels and a craft knife to cut through the material of the door leaf for three minutes without entry being achieved.

#### B.4.5 & B.4.7 MECHANICAL LOADING TEST

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Mechanical loads are applied to all locking and hinge points as well as any other devices intended to provide security. 4.5kN applied via a pneumatic ram in the opening direction and 1.5kN in the parallel direction, all loads should be held for 10 seconds without entry being achieved.

#### B.4.6 MANUAL CHECK TEST

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Crowbars and screwdrivers are used in an attempt to lever open the door leaf for three minutes. There is no limit on the number of attacks that can be carried out, but a different tool or location must be assessed each time, with a maximum overall test time of 15 minutes.

#### B.4.8 SOFT BODY IMPACT TEST

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Impacts are applied on each leaf and glazing with a 30kg sandbag. Three impacts at each location 800mm, 1250mm and 1700mm from floor level, or in the center of a glazed infill and midrail.

#### B.4.9 HARD BODY IMPACT TEST

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Impacts are applied to the door leaf and any non-glass infill with a 50kg steel impactor, at corners, hinges and locking points as well as any other devices intended to provide security. Three impacts at each location.

#### CLASSIFICATION

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Doorsets will be classified as D

#### ADDITIONAL ENHANCED SECURITY & GENERAL REQUIREMENTS

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Glazed doorsets must also include at least one pane of laminated glass meeting the requirements of BS EN 356:2000 P1A, all letterplates must be tested in accordance with TS008

Doorsets must also be classified according to their intended use for all relevant characteristics in accordance with BS6375-1 (weather performance) BS6375-2 (operation and strength performance), BS6375-3 and the relevant material specific standard.

#### FOR FURTHER INQUIRIES

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