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TYPE TEST GUIDE

ECB-S R08

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1 INTRODUCTUION

This guide shall be used by the ECB approved cooperation partners for products according to the Annexes of this document.

2 TEST PLAN

Before testing the laboratory shall receive a first draft of the technical documentation (see 0). This technical documentation shall show the planed sizes of the series.

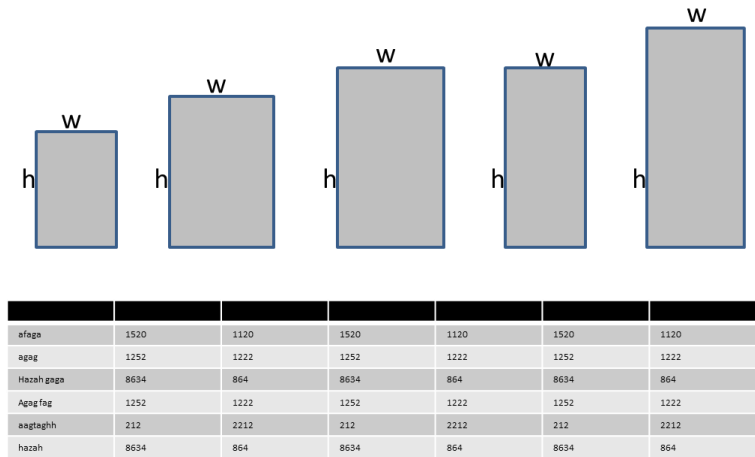


Figure 1: Document of Sizes

Due the information the testing laboratory shall choose which critical sizes will be tested. Critical sizes could be: the smallest, the highest, the size with the weakest bolt/height/width ratio, etc. Aim is not to have more test specimens as needed to assess the complete range of products.

The customer shall be informed, which prototypes will be used for testing. The test specimens shall arrive long enough before the type test, so that it can be compared to the technical documentation, which shall also be sent to the testing laboratory.

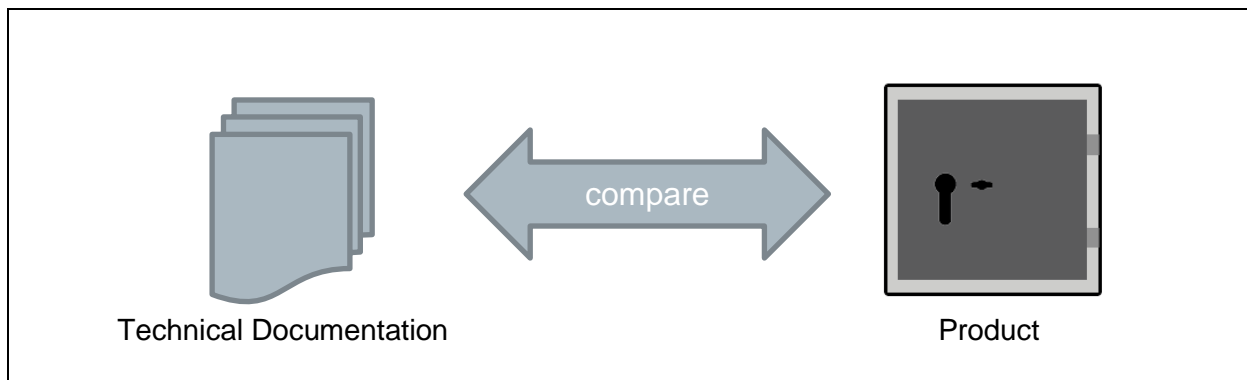


Figure 2: Technical documentation

3 PROCEDURE

Taking the product specifications and the test specimen as a basis, the laboratory proceeds as follows:

- Examination of specimen and documentation
- Elaboration of a program to attack the specimen (simulate the optimal use of tools)
- Performing the final test program (see clause 5)
- Issue test and assessment report which has to contain all phases as above

4 PERFORMING THE FINAL TEST PROGRAM

The tester shall use the test specimens as effective as possible (more than one test per specimen). Attacks can also be calculated (for example two holes are made with a drill and two holes are made with a torch. It can then be calculated how long it take to drill four holes with a drill or torch).



5 TEST REPORT

All information, considerations, test plans, observations and conclusions referred to shall be comprehensively collected in the test report. Both applicant and certification body will receive a copy.

Above all the test report shall include:

- date of the test
- customer
- testing team (test leader and testers)
- observers
- name of the series and name of the tested types
- detail of specimen
- attack strategy
- used tools
- attack type
- total test time
- Observations or photographs

6 ASSESSMENT REPORT

During the assessment it shall be checked, if the most critical type of the series was tested.

The assessment report shall be issued containing all sizes of the series and the complete list of the technical documentation with "file name", "file code (including revision)" and file date.

The list of the technical documentation shall not be a part list.

7 TECHNICAL DOCUMENTATION

The technical documentation shall be checked and stamped. Furthermore it shall be listed in a table. An example of a list and of the content is shown in the annexes. At least two copies shall be made, one for the manufacturer and one for the certification body.

ANNEX A: SAFES

In addition to the general clauses, the following shall be looked at, when testing secure storage units.

A.1 INTRODUCTION

This annex is for products of the following standards:

- EN 1143-1
- EN 1143-2
- EN 14450

A.2 TEST PLAN

In addition to clause 2, at least the following shall be assessed when choosing the test specimens:

The most critical number and positions of the bolts shall be assessed. Furthermore the most critical lock shall be tested and if all locks in the lock list can be used for the product. For some locks the construction has to be altered, as they may not be allowed behind a hole or have different mounting sizes.

A.3 PROCEDURE

- - -

A.4 PERFORMING THE FINAL TEST PROGRAM

Test can be done at (not exhaustive):

- complete access or partial access through the wall
- complete access or partial access by using pre-existing openings
- door (opening or partial access)
- attacking parts of the bolt-work
- local reinforcement
- attacking welding points
- attacking only wall samples

A.5 TEST REPORT

The test report shall contain tables showing the used tools, basic value, tool coefficient and time. Furthermore it shall be noted, why the test program was chosen.

A.6 ASSESSMENT REPORT

The assessment report shall show which locks may be mounted on the safe. A reference to the technical documentation can also be done.

A.7 CONTENT OF TECHNICAL DOCUMENTATION

The technical documentation shall contain the following information:

- 1 The date of issue, revision date, revision number, name of the document, number of the document, the name of the manufacturer or the name of the applicant requesting the testing shall be on each page.
- 2 Statement of the type of product: free-standing safe, built-in safe (floor and wall), ATM safe, strongroom door or strongroom (with or without a door), together with a list of sizes covered by the same design.
- 3 Drawings of the test specimen showing the following:
 - weight, outside and inside dimensions, and the manufacturing tolerances;
 - horizontal and vertical cross sections;
 - quantity, layout and features of locks, boltwork and relocking devices;
 - quantity, pitch and position of door bolts, their dimensions (e.g. cross section), throw and engagements and their type (e.g. moving or fixed);
 - location and design of any local areas of special protection materials (door barrier and wall barrier, local reinforcement);
 - details of the fastening and/or fitting or anchoring of all elements relevant to physical security; e.g. construction and position of joints and connections, the means by which door and/or frames are joined to walls, the means by which prefabricated panels are joined;
 - marking, position and dimensions of any holes which pass through the protection material with a detailed representation of specially protected areas;
 - details of optional features, e.g. features for time locking and time delay locking;
 - for ATM safes, the ATM base, if any, will be identified by the manufacturer.
- 4 List of all the locks that may be fitted, including the manufacturer and model number. For some locks alternative bolt work drawings shall be made.
- 5 Specification of the materials of construction (if not contained in the drawings).
- 6 Filling instruction, for the series production
- 7 Statements of details of any materials or device(s) intended to generate gas, smoke, soot, etc. in the event of physical attack, or which could generate harmful substances during testing.
- 8 Statements of the nature and position of any cables and/or facilities for penetration of detection systems, for the mounting of electro-mechanical securing devices, alarm devices, etc.
- 9 Instructions for installation, giving at least the following details:
 - method of anchoring free-standing safes with a mass less than 1 000 kg;
 - method of encasing built-in safes, i.e. proportion of body which is to be encased; the minimum size and section thickness of the encasement; the minimum quality of encasement material; (types and proportions of aggregates, cement and any other constituents, flowability of the freshly prepared mass and the 28-day cube compression strength together with the relevant methods of test to define these features); any reinforcement or anchoring to be included within the encasing mass;
 - method for the construction of monolithic cast in-situ strongrooms, including the following: minimum quality of concrete (types and proportions of aggregates, cement and any other constituents, flowability of the freshly prepared mass, and the 28-day cube compression strength together with the relevant methods of test to define these features); reinforcement to be included in the strongroom, the means by which door and frame are joined to walls and the means by which armouring and anchoring are jointed to elements;
 - method for assembling pre-fabricated strongroom elements;
 - method by which:
 - the ATM safe is anchored to the floor or other surface;
 - the ATM safe is anchored to the ATM base and the ATM base is anchored to the floor or other surface.

A.8 EXAMPLE OF A LIST OF TECHNICAL DOCUMENTATION

| TECHNICAL DOCUMENTATION (DENOMINAZIONE) | FILE NAME OF DOCUMENT (DISEGNO N°, REVISIONE) | DATE (DATA) | NUMBER OF PAGES |
|---|--|----------------|-----------------------|
| General Drawings | | | |
| Series overview | FAMILY XYZ, Rev 4 | 23.02.2012 | 1 |
| Composition of filling material (if it is a concrete construction, here the mixture of the concrete shall be listed. If it is a wood construction, this line is not necessary) | Betamax 3 | 01.03.2014 | 2 |
| Lock list | A34592, Rev 1 | 11.11.2013 | 1 |
| Fixing system / Anchoring instruction | A34591 | March 2014 | 8 |
| Body Case | A34-452-12 | 11.12.2013 | 1 |
| Door | A34-452-13 | 11.12.2013 | 1 |
| Boltwork | A34-452-14 | 10.12.2013 | 1 |
| Anchoring holes | A34-452-15 | 11.12.2013 | 1 |