



Leaflet

Surveillance of safes (with and without pre-preparation/pre-equipment with IAS-techniques) in VdS-approved intruder alarm systems

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1 Introduction

In the frame of a pre-preparation/pre-equipment of safes the mounting and installations works, as e. g. the affixing of mounting plates for seismic detectors and especially mounting works are to be performed in the area of the bolt work. These may, if performed without exact knowledge of the safes, however, lead to a degradation of the resistance against mechanical attacks and thus negatively influence the existing classification of the safe which again would lead to expiration of the approval and the insurance cover. Due to this fact, it is necessary that the manufacturer of the safe offers a pre-

preparation resp. pre-equipment of his products which enables the installer of an intruder alarm system (IAS) to realise the surveillance of the safe (e. g. with seismic detectors) without negative influences.

The respective requirements to IAS-surveillance measures for safes are stipulated in VdS 2264. Following these guidelines, the pre-preparation and pre-equipment is subject to a testing and certification procedure, resulting – in case of positive results – in a separate VdS-approval, in addition to the existing approval of the safe itself.

The following basics are applicable:

- Mechanical modifications on safes lead to a loss of the VdS-approval as safe (compare also VdS 5004).
- The installation of intruder alarm techniques shall always be made by a VdS-approved installer of the IAS.
Exception: the installing party is not the VdS-approved installer of the IAS, the installation is subject to a defined process, which is VdS-approved. This is given by the VdS-approval for the pre-preparation resp. pre-equipment according to VdS 2264.
- The system conformity is to be considered. If a VdS-approved installer of the IAS builds in the components as prescribed in the pre-preparation, but these are not part of the intruder alarm system concept, a laboratory testing of the system conformity will be required.

Five different designs of safes shall be considered in the case of a surveillance of safes in VdS-approved intruder alarm systems:

2 Design A: Safe with VdS-approved pre-equipment according to VdS 2264

1. The safe disposes of a VdS-approved pre-equipment (e. g. G 113199).
2. The pre-equipment may be used in VdS-approved IAS by considering the compatibility with the system (if applicable, a test of this compatibility is necessary).
3. The approval number for the pre-equipment (G 113199) shall be documented in the Installation attestation (Clause 6.5 "supervised premises monitoring") and the respective symbol shall be drawn in the site plan (figure 2).

3 Design B: Safe with approved pre-preparation according to VdS 2264 (without pre-equipment)

1. The safe disposes of a VdS-approved pre-preparation (e. g. G. 113198).
2. On base of the technical documentation of the pre-preparation (e. g. parts list, cable routing plan), the safe may be pre-equipped by the VdS-approved installer on site with the system com-

ponents prescribed for the approval and connected to the VdS-approved IAS by considering the compatibility with the system (if applicable, a test of this compatibility is necessary).

3. The approval number for the pre-preparation as well as the approval number of the used system components shall be documented in the installation attestation (clause 6.5 "supervised premises monitoring"). The respective symbols (a. o. figure 1) shall be drawn in the site plan

4 Design C: Safe with VdS-approved pre-preparation according to VdS 2264 and retrofitting with not VdS-approved IAS components

The pre-prepared safe was retrofitted by a third party, e. g. a manufacturer of ATM-Safes, with IAS system components. In addition, probably components were used which are not prescribed by the VdS-approval of the pre-preparation.

- As the retrofit equipment has neither been tested in the laboratory, nor has been performed by a VdS-approved installer, no definite statement may be made on the conformity with the guidelines.
- A connection of the monitoring measures to a VdS-approved IAS is possible only in the frame of an admitted variation. Here, the following facts are to be considered:

1. The VdS-approved installer of the IAS is ready after thorough check to take over the total responsibility for the proper performance of the surveillance measures.

Note: The test contains at least the following part checks/measures:

- Use of system components as prescribed in the pre-preparation
- Assembly, wiring and adjustment of system components according to technical documentation
- Cable routing according to wiring plan of the pre-equipment
- Function test
- Completeness of documentation (wiring plan, terminal diagram, mounting and operation instruction, data sheets of all system components, adjustment instructions, warning notes, test records).

2. The operator of the IAS and his insurer agree with the connection of the surveillance measures.
3. The safe may then be connected to the VdS-approved IAS by considering the compatibility with the system (if applicable, a test of this compatibility is necessary).
4. The approval number for the pre-preparation as well as the approval numbers of the used system components shall be documented in the installation attestation (clause 6.5 "Supervised premises monitoring"). The respective symbols (a. o. figure 1) shall be drawn in the site plan and in Annex D this procedure shall be documented and justified as variation.

5 Design D: VdS-approved safes with not VdS-approved pre-preparation

The VdS-approved safe was retrospectively pre-prepared e. g. by a third party. However, no laboratory testing was performed by VdS.

- The origin classification of the safe was probably negatively influenced, such that no definite statement on the classification may be made. The VdS-approval of the safe thus has expired.
- The further treatment may be made as described in design E.

6 Design E: Safe without pre-preparation/pre-equipment

- If a safe does not dispose of a VdS-approved pre-preparation/pre-equipment, a VdS-conform retrospective pre-preparation/pre-equipment is not possible with maintaining the VdS-approval (classification).
- Safes that do not dispose of a certified classification may also be equipped with IAS techniques by the installer on his own responsibility. Interference into the bolt work or the making of system openings (e. g. cable entries) is dis-advised. If applicable, seismic detectors and opening contacts shall – after agreement with the insurers – be mounted outside the safe. In this case, the safe shall be monitored additionally by motion detectors on approach. If a monitoring on locking/blocking technically not possible, it is to be agreed with the insurer on how far from this monitoring may be abstained (see VdS 2311, table E.3.01 and E.4.01).

7 Symbols for the site plan



Safe with pre-preparation for IAS surveillance



Safe equipped with IAS components

8 Bibliography

VdS 2170 – Installationsattest für VdS-anerkannte Einbruchmeldeanlagen (installation attestation for VdS-approved intruder alarm systems)

VdS 2264 – EMA-Überwachungsmaßnahmen für Wertbehältnisse (IAS surveillance measures for safes)

VdS 2311 – Richtlinien für Einbruchmeldeanlagen, Planung und Einbau (Guidelines for intruder alarm systems, planning and installation)

VdS 5004 – Informationen zu Reparaturen und nachträgliche Änderungen an Wertbehältnissen (Information on repairs and retrofit modifications on safes)



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