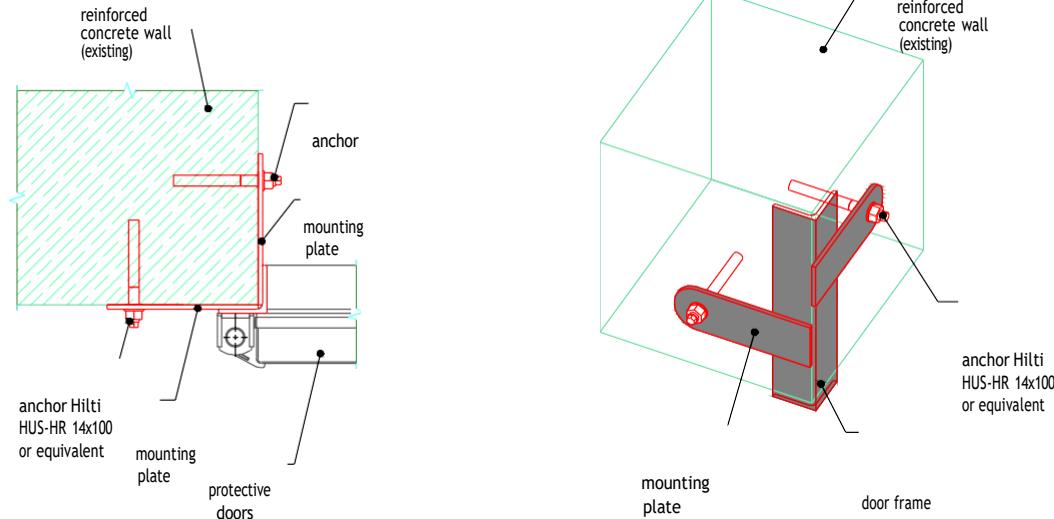


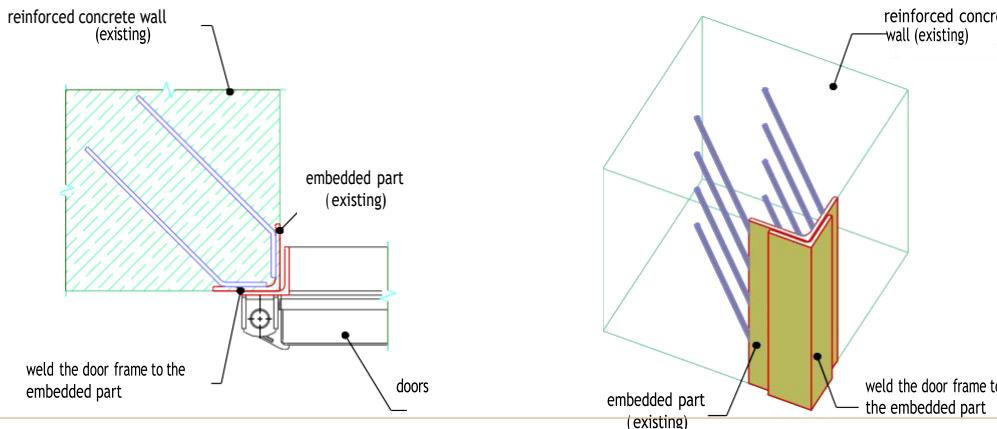
Option for mounting protective-hermetic doors using mounting plates

Recommendations are not a substitute for proper design.



1. When developing design solutions for the installation of security doors in existing walls, comply with the requirements of DBN B.2.2-5:2023.
2. Before starting the design, perform a survey of existing structures to determine their physical and mechanical characteristics.
3. The door fasteners are designed for a quasi-constant load applied perpendicular to the wall plane and directed in the direction opposite to the wave action. The value of the quasi-static load is taken depending on the door type:
 - DU-I, DU-III and SU-I - 25 kPa;
 - DU-IV - 15 kPa.
4. The dimensions, thickness of the plates, type and spacing of the anchors are determined by the project depending on the loads and physical and mechanical characteristics of the material of the existing structures.
5. For anchorages, take into account the manufacturer's installation recommendations, in particular, edge and centre distances.
6. The doorframe shall be mounted on an expanding concrete mortar.
7. Fix the door leaf strictly vertically with a permissible deviation of ± 2 mm.
8. For the work on the installation of doors, draw up acts of hidden works.
9. All mechanical and sealing devices of the door shall be protected from the concrete mixture.

Option for mounting protective-hermetic doors using existing frames/embedded



1. When developing design solutions for the installation of security doors in existing walls, comply with the requirements of DBN B.2.2-5:2023.
2. Before starting the design, perform a survey of existing structures to determine their physical and mechanical characteristics.
3. The door fasteners are designed for a quasi-constant load applied perpendicular to the wall plane and directed in the direction opposite to the wave action. The value of the quasi-static load is taken depending on the door type:
 - DU-I, DU-III and SU-I - 25 kPa;
 - DU-IV - 15 kPa.
4. The catenary, type and pitch of welding seams are determined by the project depending on the loads and physical and mechanical characteristics of the material of the existing structures.
5. If it is possible to perform dismantling and concrete works, it is possible to install a new embedded part in the existing wall. The profile of the embedded part, type and spacing of reinforcement, type and class of concrete mix shall be determined by the project depending on the loads and physical and mechanical characteristics of the material of the existing structures.
 - 6. Fix the door leaf strictly vertically with a permissible deviation of ± 2 mm.
 - 7. For the work on the installation of doors, draw up Acts of hidden works.

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No	Description	Date

Recommendations and examples of installation of metal protective hermetic doors in monolithic reinforced concrete structures of civil defense facilities.

Options for fastening doors in existing walls during reconstruction.

Project number	01.24	06
Date	01.24	06
Developed by		
Reviewed by		