Technical Specifications for the Lit Frameless Flush Interior Door System

A) Lit In Flush Door System with Inward Opening.

Lit In flush (concealed) door system, opening inward relative to the flush side, featuring an aluminum frame fitted on both sides of the vertical metal stud of the supporting structure and secured with a metal securing bracket. The system is equipped with three concealed hinges, a magnetic lock, and a magnetic lock strike plate (Fig. 1).

A1) Aluminum Frame

The Lit In aluminum profile weighs 1480g/m and features a special design that facilitates precise joint alignment on the flush side, ensuring a seamless finish with a 3.0–4.0 mm door-to-wall gap between the partition wall and the door. The profile also incorporates dedicated recesses to accommodate the plasterboard panels extending to the opposite side. It is supplied with pre-machined cutouts for the concealed hinges and strike plate.

The Lit In aluminum profile is an extruded product manufactured from aluminum alloy A-GS (50S) in accordance with AFNOR standards (AlMgSi0.5 according to DIN), with an average Brinell hardness of 76 HB10, a tensile strength of 23 kp/mm², and an elongation at break of δ50 = 6%. The profiles are electrostatically powder-coated, with coating thickness of 70–80 µm.

A2) Door Leaf

The door leaf is constructed from pressed MDF unpainted, painted or lacquered ,with an overall thickness 58 mm. It features MDF (Medium Density Fiberboard) panels on both sides, a reinforced poplar wood perimeter frame, and either a honeycomb or particleboard core. The edges on three sides are designed with a stepped (rebated) profile, and the door leaf is supplied with pre-machined cutouts for concealed hinges.

Lit in Opening inward

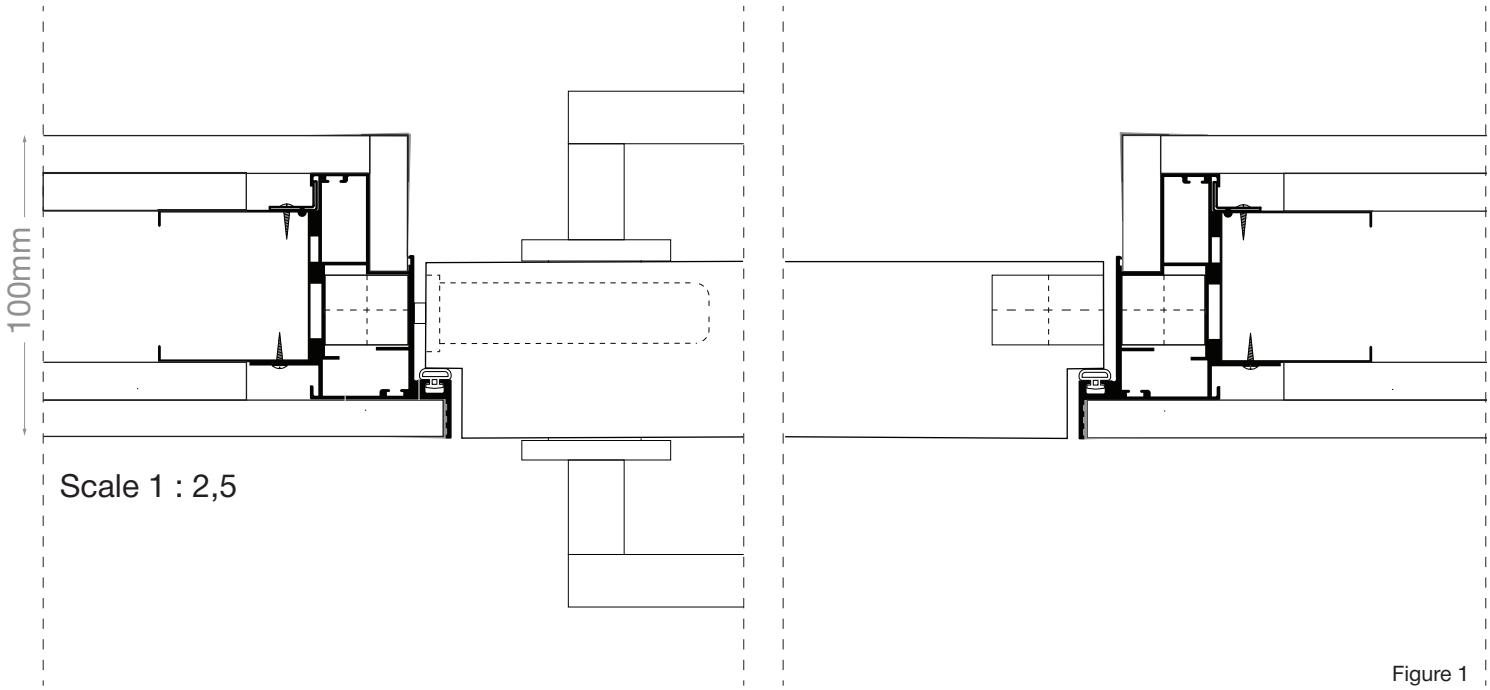


Figure 1

A3) Concealed Hinges

The concealed hinges are made of Zamak alloy and allow a 90° opening angle (Figs. 2 and 3). They have a load-bearing capacity of 60 kg per set of three hinges and are fully adjustable in three axes (3D adjustment). The hinges have been tested for 200,000 opening and closing cycles.

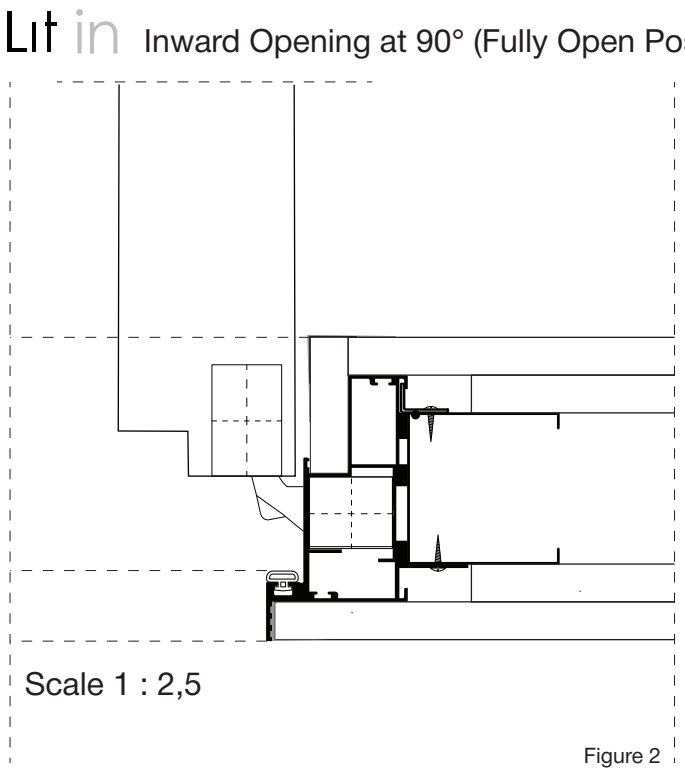


Figure 2

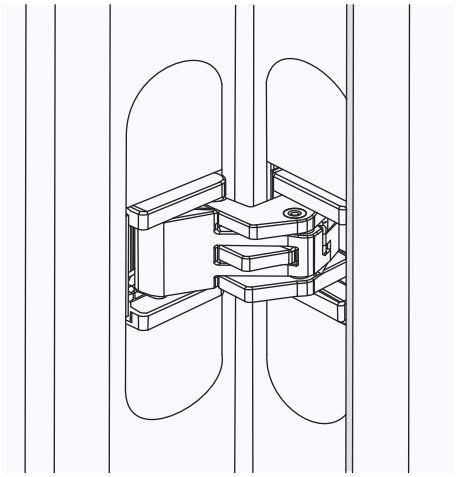


Figure 3

A4) Magnetic lock

The magnetic lock is an AGB-type lock, available with or without a cylinder, and is manufactured from steel. The visible faceplate measures 195 mm in height and 17 mm in width. The lock is compatible with a door handle or flat access hardware (Fig. 4) and operates in conjunction with a magnetic strike plate (Fig. 5), integrated into the aluminum frame profile against which the door leaf rests when closed.

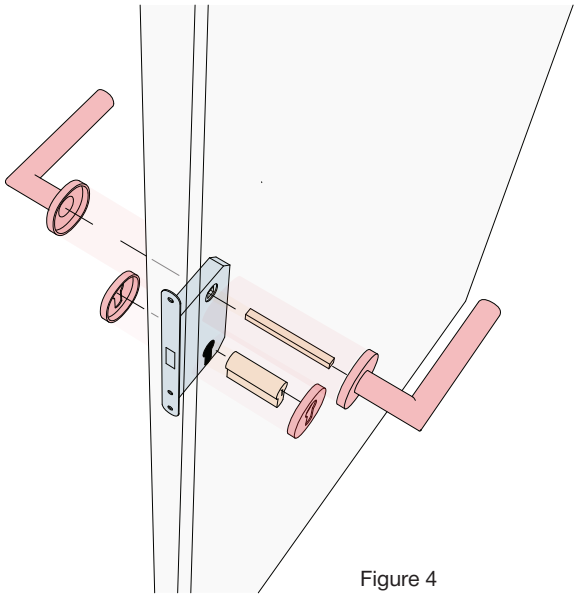


Figure 4

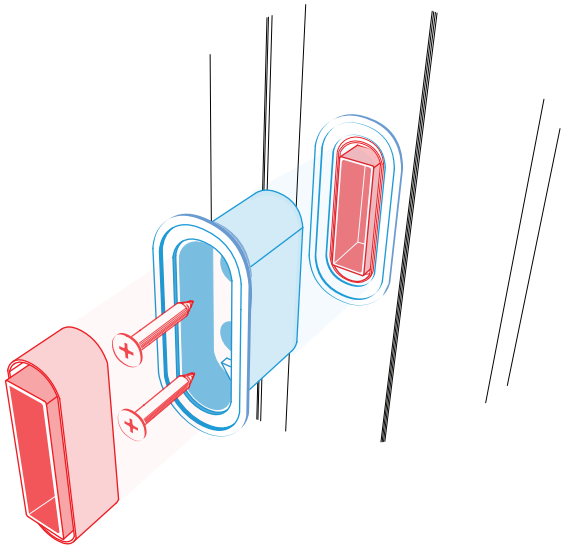


Figure 5

B) Lit Out Flush Door System with Outward Opening

The Lit Out flush (concealed) door system opens outward relative to the flush side and features an aluminum frame fitted on both sides of the vertical metal stud of the supporting structure and secured with a metal securing bracket. The system is equipped with three concealed hinges, a magnetic lock, and a metal strike plate (Fig. 6).

B1) Aluminum Frame

The Lit Out aluminum profile weighs 1660g/m and features a special design that facilitates precise joint alignment on the flush side, ensuring a seamless finish with a 3.0–4.0 mm gap between the partition wall and the door. The profile also incorporates dedicated recesses to accommodate the plasterboard panels extending to the opposite side. It is supplied with pre-machined cutouts for the concealed hinges and strike plate.

The Lit In aluminum profile is an extruded product manufactured from aluminum alloy A-GS (50S) in accordance with AFNOR standards (AlMgSi0.5 according to DIN), with an average Brinell hardness of 76 HB10, a tensile strength of 23 kp/mm², and an elongation at break of δ50 = 6%. The profiles are electrostatically powder-coated, with a coating thickness of 70–80 µm.

B2) Door Leaf

The door leaf is constructed from pressed MDF, available unpainted, painted, or lacquered, with an overall thickness of 42 mm. It features MDF (Medium Density Fiberboard) panels on both sides, a reinforced poplar wood perimeter frame, and either a honeycomb or particleboard core.

The door leaf features straight, non-rebated edges around its entire perimeter and is supplied with pre-machined cutouts for concealed hinges.

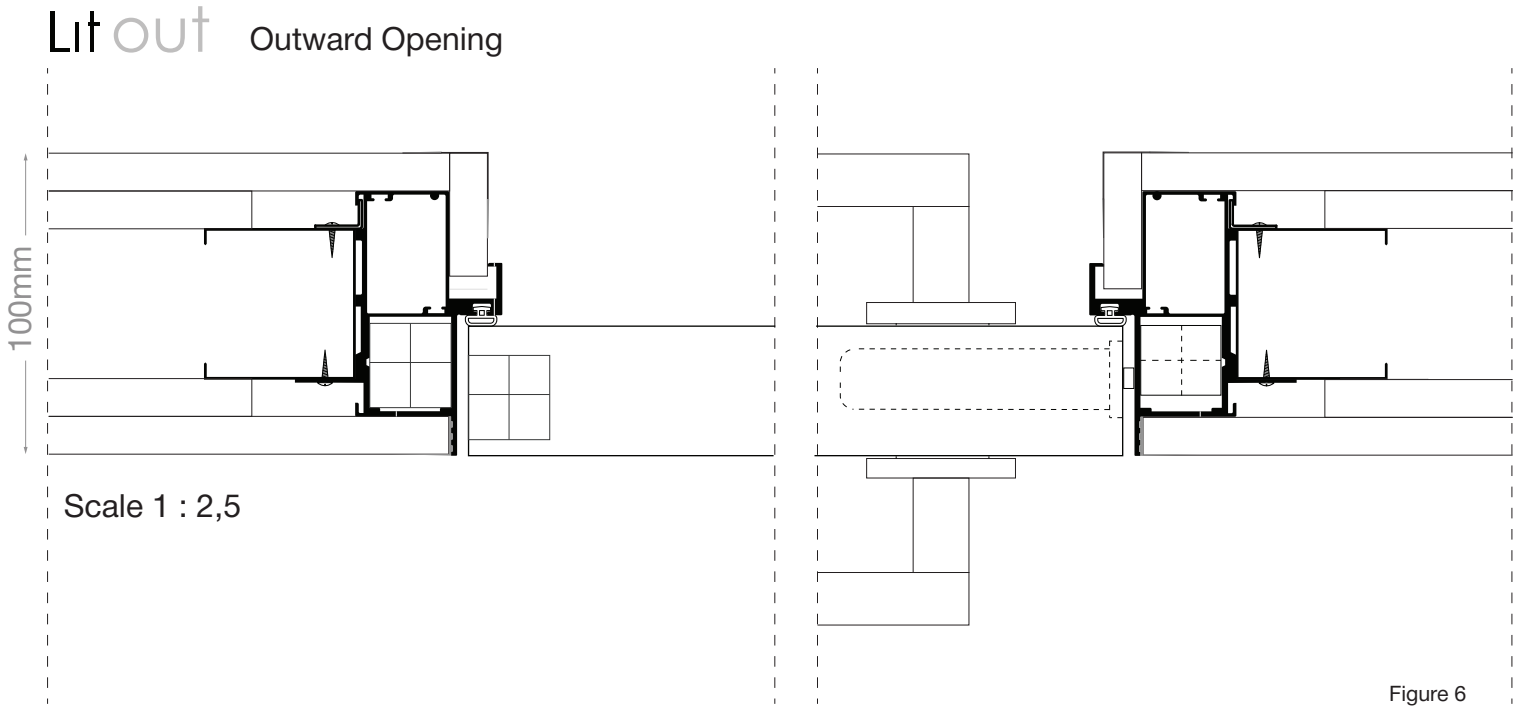


Figure 6

B3) Concealed Hinges

The concealed hinges are made of Zamak alloy and allow a 180° opening angle (Figs. 7 and 8). They have a load-bearing capacity of 60 kg per set of three hinges and are fully adjustable in three axes (3D adjustment). The hinges have been tested for 200,000 opening and closing cycles.

Lit out Outward Opening at 180° (Fully Open Position)

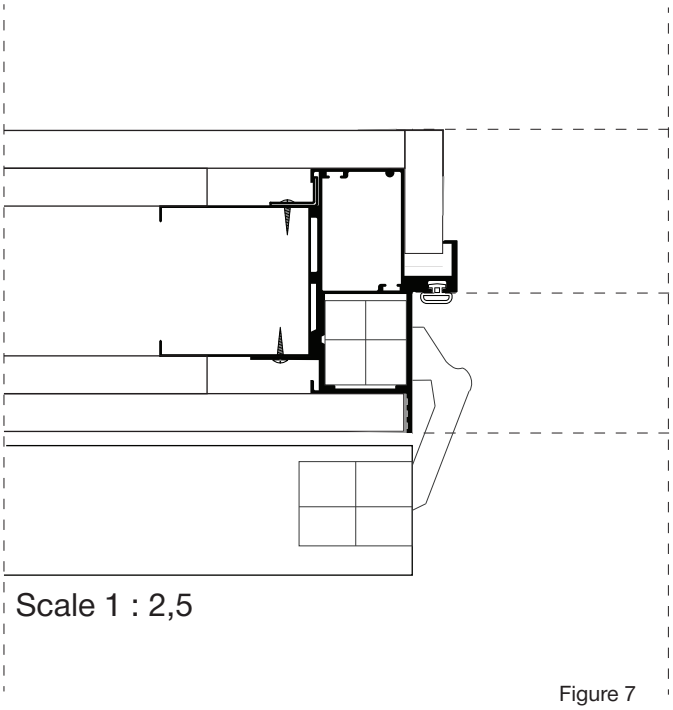


Figure 7

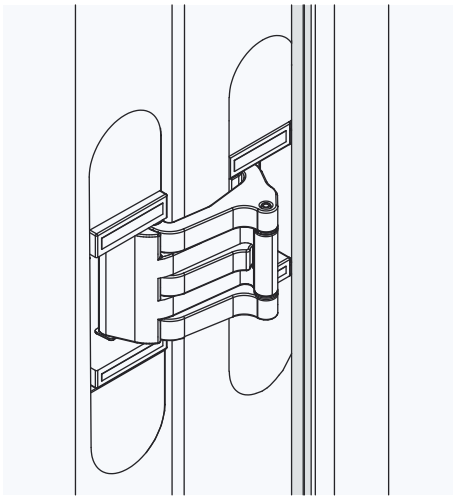


Figure 8

B4) Magnetic Lock

The magnetic lock is an AGB-type lock, available with or without a cylinder, and is manufactured from steel. The visible faceplate measures 195 mm in height and 17 mm in width. The lock is compatible with a door handle or flat access hardware (Fig. 9) and operates in conjunction with a magnetic strike plate (Fig. 10), integrated into the aluminum frame profile against which the door leaf rests when closed.

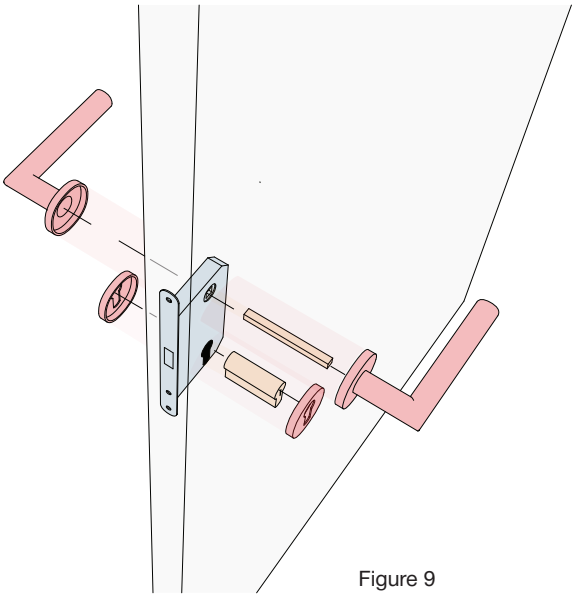


Figure 9

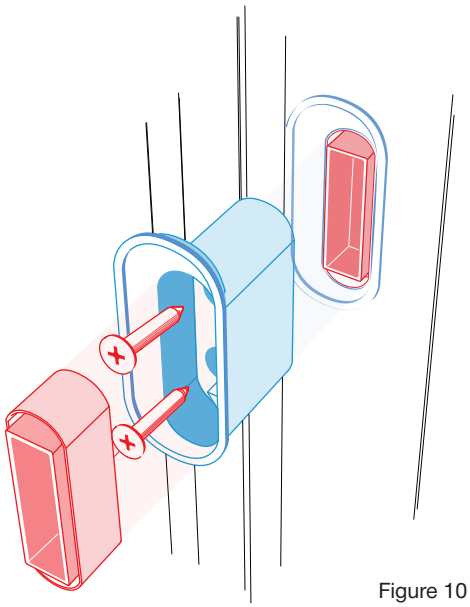


Figure 10

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