

## Single Leaf Impact 1 Explosion Resistant Door

<b>Blast Resistance</b>	<b>EPR 2 1,0 bar</b>	<b>tested based on EN 13124-1 with increased impulse up to 650 bar • ms</b>
and/or		
<b>Explosion Protection</b>	<b>up to Zone1/21</b>	<b>acc. to EN 1127-1 / ATEX 2014/34/EU</b>

### Optional Audited Additional Functions

- Explosion Protection	up to 3,0 bar/300 kPa EPR3/EPR4	tested based on EN 13124-1 tested based on EN 13124-1
- Burglar Protection	RC2/RC3/RC4/RC5	tested acc. to EN 1627
- Bullet Resistance	FB4/FB6/FB7	tested acc. to EN 1522
- Air Tight	up to class 4	tested acc. to EN 1026
- Rain- and Fire-Water Tight	class 6A	tested acc. to EN 1027
- Wind load Resistance	up to class C5	tested acc. to EN 1221
- Stainless Steel		

### Range of Dimension

Width from 500 mm to 1375 mm  
Height from 500 mm to 2500 mm

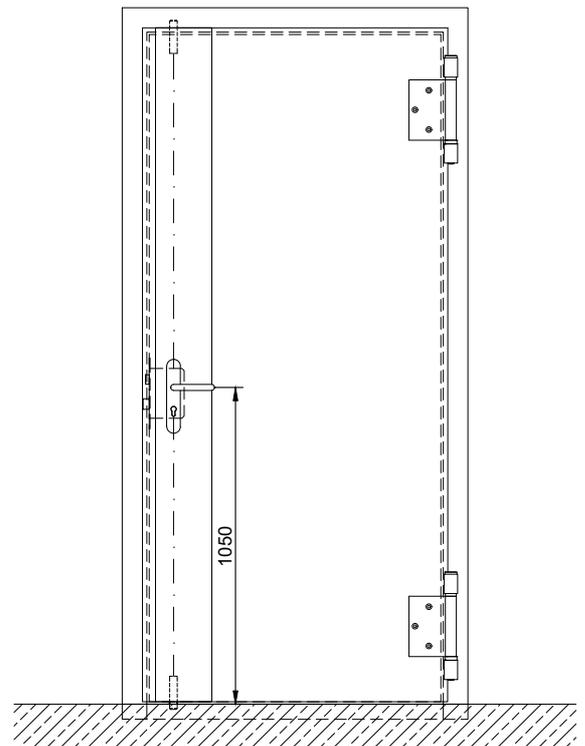
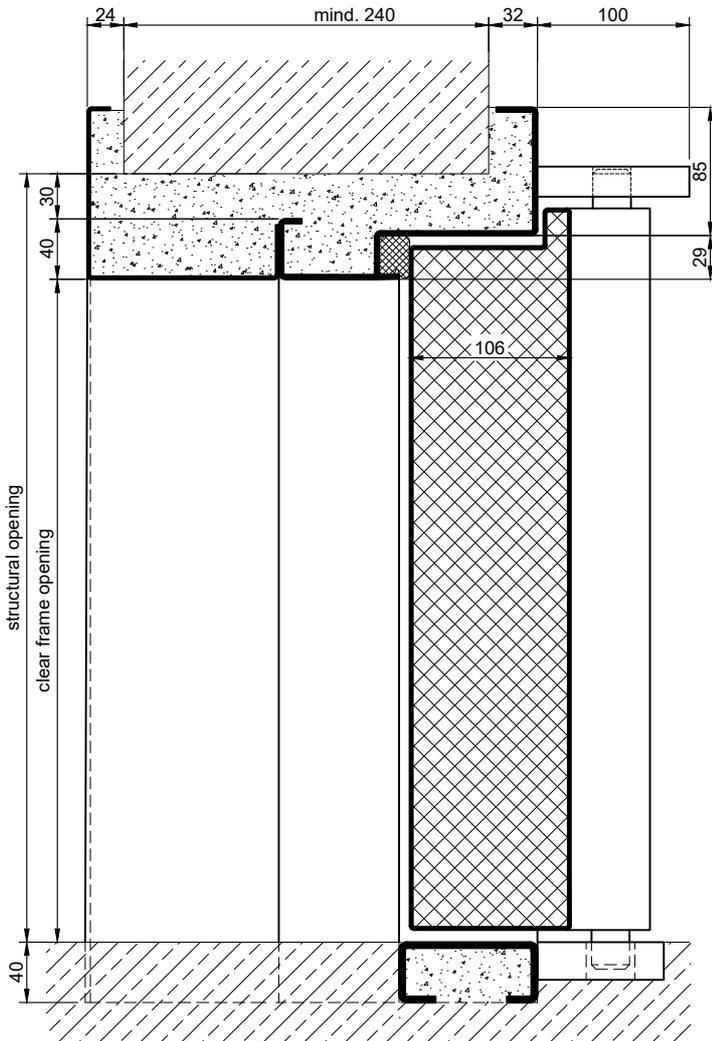
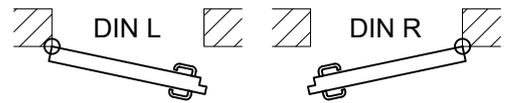
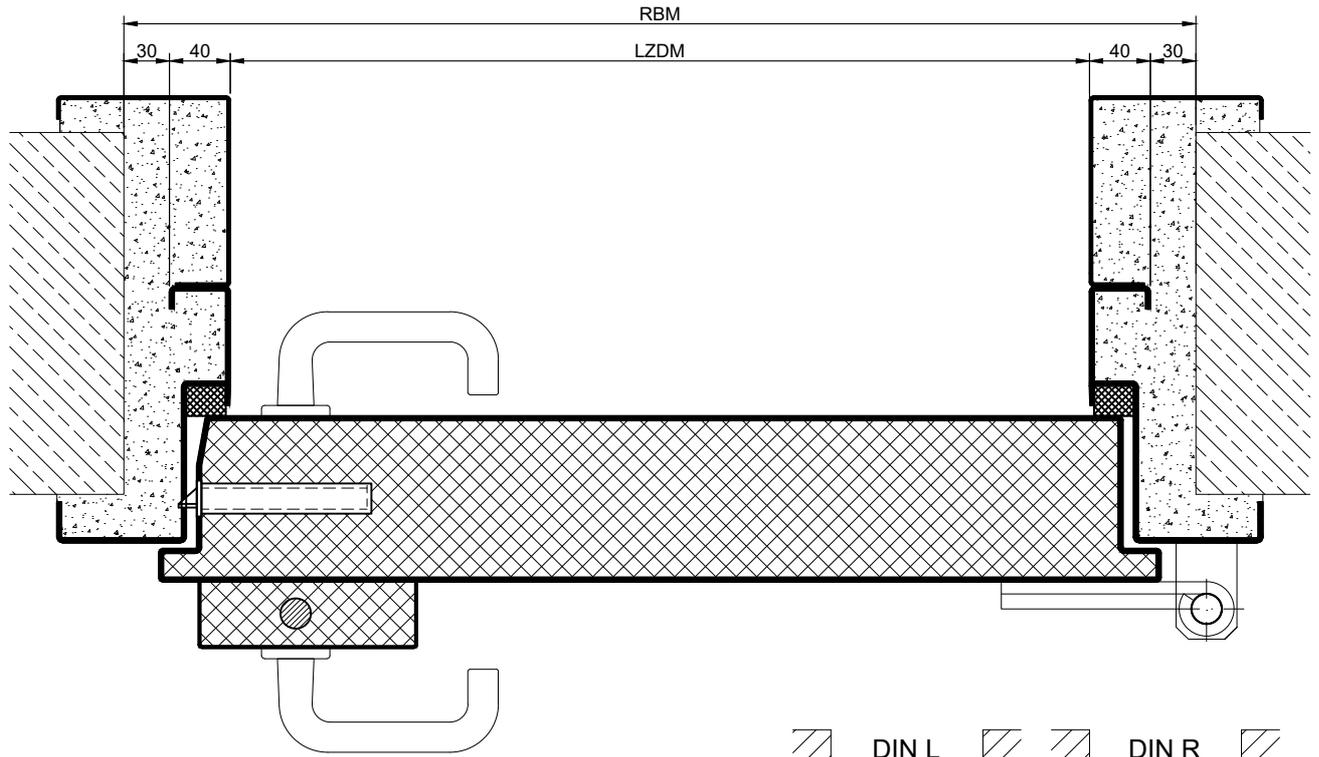
### Technical Specification and Tender Text

<b>Product:</b>	<b>Single leaf explosion resistant door brand Buchele tested based on EN 13124-1</b>
<b>Door Type:</b>	<b>Impact 1</b>
<b>Explosion Resistance:</b>	<b>1,0 bar / 100 kPa from opposite hinge side 3,0 bar / 300 kPa from hinge side</b>
<b>Blast Resistance:</b>	<b>EPR 2 based on EN 13124-1 from opposite hinge side EPR 4 based on EN 13124-1 from hinge side EPRU (300/2550) based on prEN 13124-1 from hinge side</b>
<b>Explosion Protection:</b>	<b>Zone 1 (IIA, IIB) / Zone 2 (IIA, IIB) / Zone 21 / Zone 22 acc. to EN 1127-1 or ATEX 94/9/EG</b>
<b>Structural Opening:</b>	<b>.... x .... mm</b>
<b>Door Leaf:</b>	Double-walled, planar 106 mm thick steel door leaf without hinge embossing, three sides rebated with thick rebate. Without bottom stop. Special insulating inserts fully laid-in and glued. Securing pin screwed in door leaf rebate.
<b>Threshold:</b>	Floor bracket as separation sill. Surface galvanized and welded to the frame.
<b>Frame:</b>	3-sided circumferential rebated corner frame. High-quality multi chamber sealing profile adjustable fixed in the three-sided groove.

<b>Hinges:</b>	Three-part, height adjustable construction hinges with hinge pin retention and ball bearing spacer ring for smooth door movement.
<b>Fitting:</b>	Mortise lock with latch lever function acc. to EN 12209 (prepared for installation of a profile cylinder lock, provided by customer) and attached, automatic 2-point locking system. Door handle set in acc. to EN 1906 fixed pivoted synthetic material black in U-shape with rounded long-plate.
<b>Surface:</b>	Door leaf and frame galvanized und primed with 2K-PUR primer (Very High Solid) similar RAL 7035.

## Supplementary Equipment

<b>Glazing:</b>	Non-splintering single or insulating glazing fixed with profiled and visible screwed steel glazing bars. Minimum border 125 mm on side and top, base 300 mm.
<b>Pressure Relief Hatch:</b>	Self-closing hatch for explosion pressure relief in the door leaf. Inside optionally secured with protective grille.
<b>Stainless Steel:</b>	Material 1.4301 (V2A) or 1.4404 (V4A), Surface mill finish or brushed.



4.1.2. IMPACT 1-1BAR\_EN

technical modifications reserved - edition 11/2025