

Single Leaf High Sound Insulating STB POWER Line Steel Door

Sound Insulation **R_{w,P} 53 dB** **tested acc. to EN ISO 10140-2**

Optional Audited Additional Functions

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|------------------------------|-------------------------|--------------------------------------|
| - Burglar Protection | RC2/RC3 | tested acc. to EN 1627 |
| - Bullet Resistance | FB4, FB6, FB7-NS | 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 12211 |
| - Blast Resistance | up to 20kPa | tested acc. to EN 13124-1 |
| - Explosion Protection | up to zone 1/21 | acc. to EN 1127-1 or ATEX 2014/34/EU |
| - Stainless Steel | | |

Range of Dimension

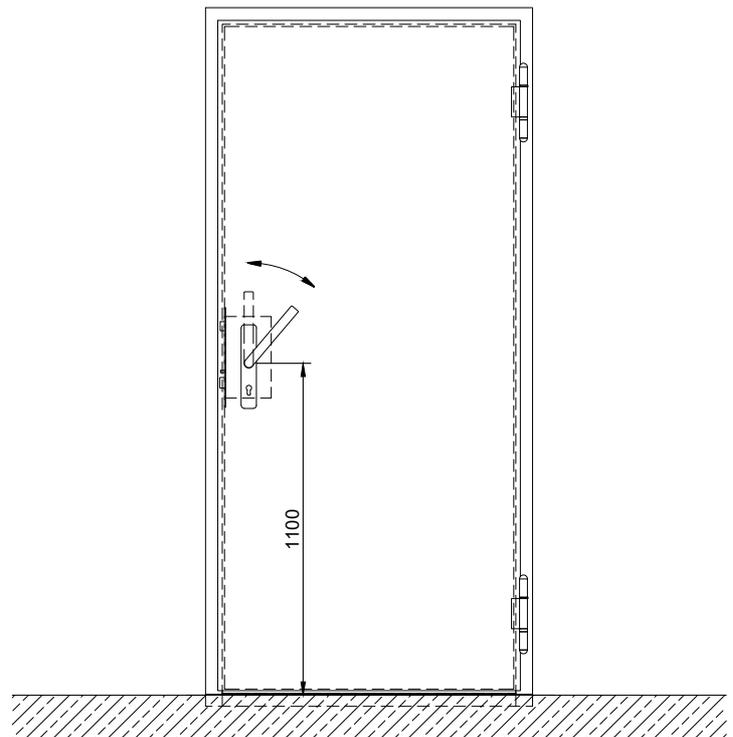
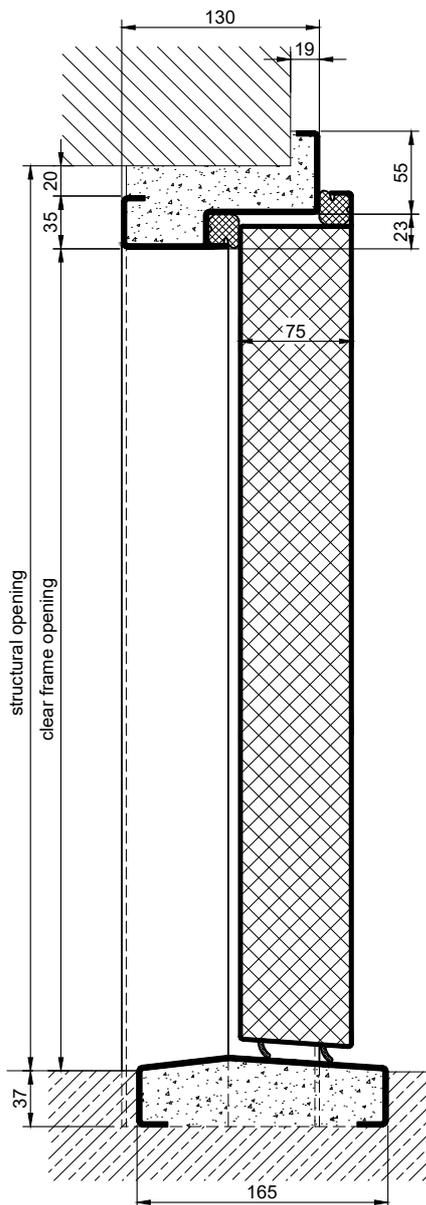
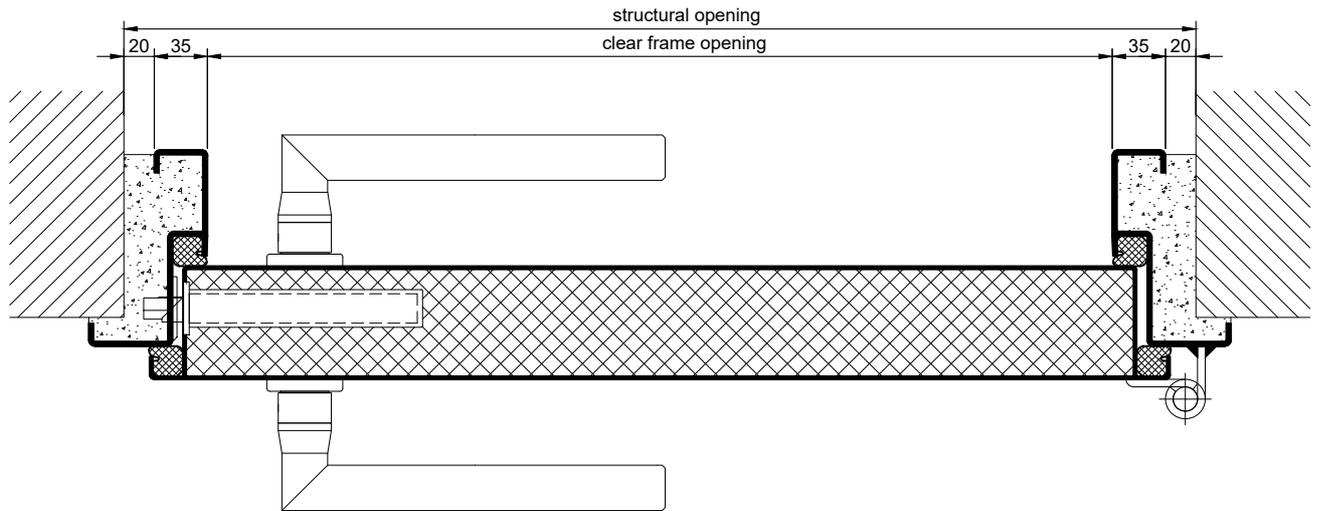
Width from 500 mm to 1500 mm *oversize is possible
Height from 500 mm to 3250 mm

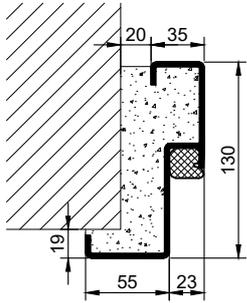
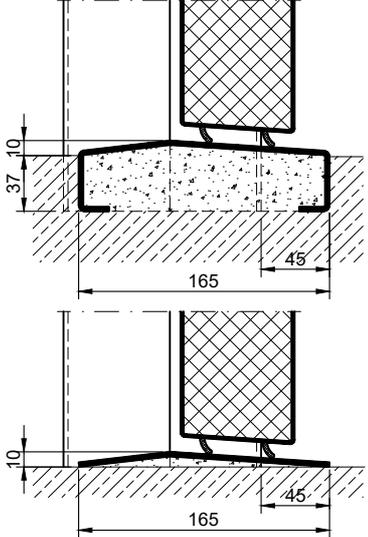
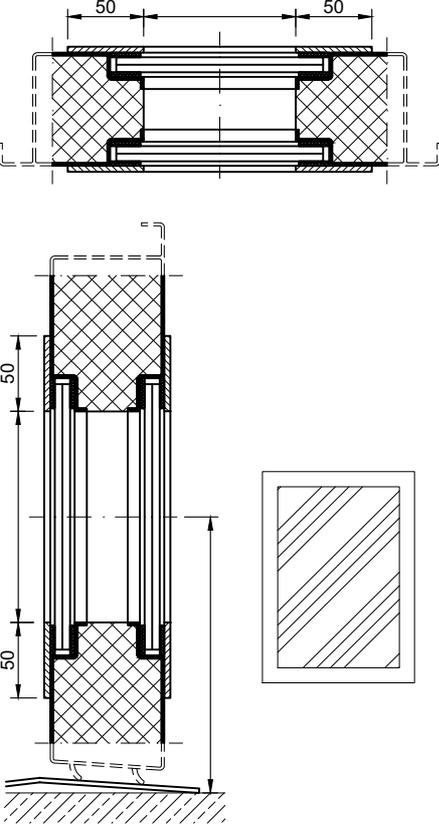
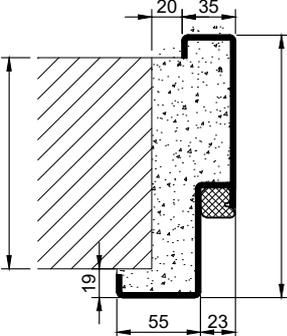
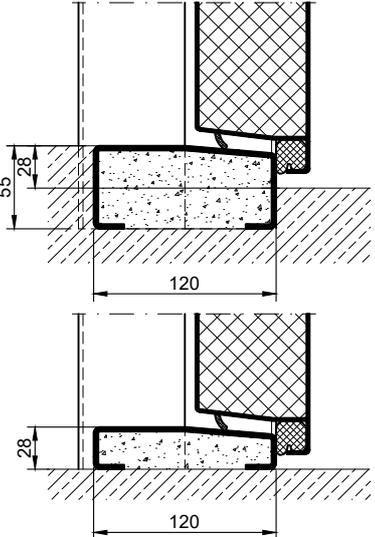
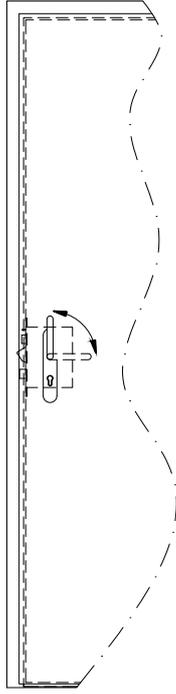
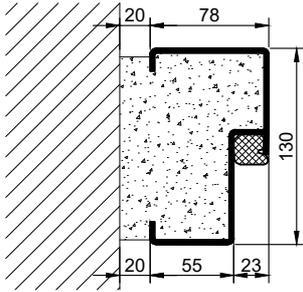
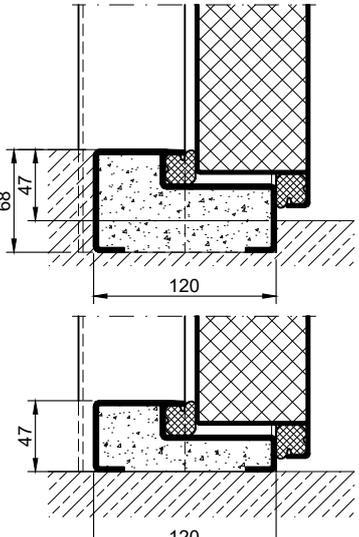
Technical Specification and Tender Text

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|---|--|
| Product: | STB 53-1 single leaf high sound insulating steel door brand Buchele tested acc. to EN 1634-1, 1634-3 und EN ISO 10140-2 |
| Door Type: | STB 53-1 POWER Line |
| Sound Insulation R_{w,P} | 53 dB |
| Structural Opening: | x mm |
| Door Leaf: | Double-walled, planar 75 mm thick steel door without hinge embossing, three sides rebated with thick rebate and adjustable fixed sealing profile in the rebate. Without bottom stop. Special insulating inserts fully laid-in and glued. Double tow sealing system. |
| Threshold: | Threshold profile as barrier-free hump sill. Surface galvanized and welded to the frame. |
| Frame: | 3-sided circumferential rebated corner frame. High-quality multi chamber sealing profile adjustable fixed in the three-sided groove. |
| Hinges: | Three-part, height adjustable construction hinges with hinge pin retention and ball bearing spacer ring for smooth door movement. |
| Fitting: | Heavy-duty worm clamping locking device with solid locking worm, spring-suspended lock latch and automatic maloperation interlock system. Lock prepared for installation of a profile cylinder, provided by customer. Reinforced clamping lever pair, ergonomically shaped, fixed pivoted on squared long platers, visible screwed to the door leaf. Surface stainless steel with black lever handle area. |
| Surface: | Door leaf and frame galvanized und primed with 2K-PUR primer (Very High Solid) similar RAL 7035. |

Supplementary Equipment

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|-------------------------|---|
| Glazing: | Double glazing two-sided fixed with profiled and visible screwed steel glazing bars. Minimum border 125 mm on side and top, base 340 mm. Sound Insulation $R_{w,P}$ max. 50dB |
| Stainless Steel: | Material 1.4301 (V2A) or 1.4404 (V4A), Surface mill finish or brushed. |
| Air Lock: | Air Lock Soil Liner System (pneumatic sealing system to the floor). Automatic lifting and lowering of the bottom seal when actuating the clamping levers. |
| BUCHELE DELUXE: | The exclusive surface coating. |
| Panic: | Worm clamping locking device with integrated emergency release function. (The locked and fastened door leaf locking can be unlocked and opened with only two movements without using the locking cylinder.) |



| Frames | Thresholds | Options |
|---|---|--|
| <p><u>corner frame</u></p>  | <p><u>hump sill</u></p>  | <p><u>glazing</u></p>  |
| <p><u>encasing frame</u></p>  | <p><u>half sill</u></p>  | <p><u>Buchele wedge latch lock</u></p>  |
| <p><u>block frame</u></p>  | <p><u>full sill</u></p>  | |