

**Single wing PLANE Line electro-magnetic-shielding door  
for EMS, EMI and EMV purposes**

**Plane Optic  
Shielding attenuation: 40 to 80 dB in accordance with IEEE 299**

*patent-protected*

* Fire Protection	<b>EI<sub>2</sub>30/60/90-SaC5</b>	in accordance with DIN EN 1634-1
* Smoke Control	<b>RS (S<sub>200</sub>)</b>	in accordance with DIN EN 1634-3
* Noise Control	<b>up to R<sub>W,P</sub> 54dB</b>	in accordance with DIN EN ISO 10140-2
* Burglar Proof	<b>RC2/RC3/RC4/RC5</b>	in accordance with DIN EN 1627
* Shot Proof	<b>FB4</b>	in accordance with DIN EN 1522
* Air Tight	<b>up to classification 4</b>	in accordance with DIN EN 12207
* Rain and Fire Water Tight	<b>Classification 6A</b>	in accordance with DIN EN 1027
* Wind Tight	<b>Classification C5</b>	in accordance with DIN EN 12211
* Pressure Resistant	<b>up to 18 kPa</b>	
* Explosion Protection	<b>up to zone 1/21</b>	in acc. with DIN EN 1127-1 or ATEX 94/9/EG
* Stainless Steel		

**Range of Dimensions:** Width from 500 mm to 1500 mm  
Height from 500 mm to 3000 mm

\* (special options see back of this page)

**Technical specification and text for invitation to tender**

<b>Product:</b>	<b>PL 1 single wing electro-magnetic-shielding-door brand Buchele</b>
<b>Door Type:</b>	<b>PLANE Line PL 1 HF</b>
<b>Shielding attenuation:</b>	<b>40 to 80 dB between 100 kHz and 10 GHz</b>
<b>Dimensions:</b>	<b>.... x .... mm</b>
<b>Door Leaf:</b>	Double walled, level 70 mm thick steel door leaf without hinge embossing, three sides folded with thick rebate and stainless steel contact strips without bottom stop with tow sealing. Special insulating inserts completely laid in and glued. Safety bolt screwed in door leaf fold.
<b>Sill:</b>	Threshold profile barrier-free hump sill. Surface galvanized welded to the frame.
<b>Frame:</b>	Three sided circumferential folded PLANE Line special corner frame for flush mounted optics on hinge side. High-quality multi-chamber sealing profile adjustable fixed in the three sided groove and protective installed spring connector gaskets.
<b>Hinges:</b>	Threepart height-adjustable construction hinges with hinge pin retention and ball-bearing spacer ring for smooth door movement.
<b>Fitting:</b>	Mortice lock with latch lever function in accordance with DIN EN 12209 (prepared for installation of a profile cylinder lock provided by customer). Door handle set in accordance with DIN EN 1906 firmly installed turnable synthetic material black in U-shape with rounded short-plate.

**Surface:** Door leaf and frame galvanized and primed with one component primer similar RAL 7001.

**Mounting:** Delivery and professional assembly including filling of the cavities in the frame with mortar of group III.

### **Special Models**

**Fire protection:** EI<sub>2</sub>30/60/90-C5 in accordance with DIN EN 1634-1

**Smoke Control:** RS (S<sub>200</sub>) in accordance with DIN EN 1634-3

**Burglary Protection:** RC 2, RC 3, RC 4 or RC 5 safety package with safety fitting.

**Emergency Door:** With panic fitting in accordance with DIN EN 179 and 1125

**Sound Insulation:** Up to R<sub>w,p</sub> 54 dB

**Bullet Proof:** FB 4 and FB 6 special inlay in door leaf and frame.

**Airtight:** High-quality multi-chamber sealing profile adjustable fixed in the three sided groove of the frame in connection with a drop seal or a stop seal.

**Driving Rain Water tight:** High-quality multi-chamber sealing profile adjustable fixed in the three sided groove of the frame in connection with a stop seal.

**Windproof** High-quality multi-chamber sealing profile adjustable fixed in the three sided groove of the frame in connection with a stop seal.

**Stainless Steel:** Material 1.4301 (V2A) or 1.4571 (V4A), Surface bright mill or brushed.

