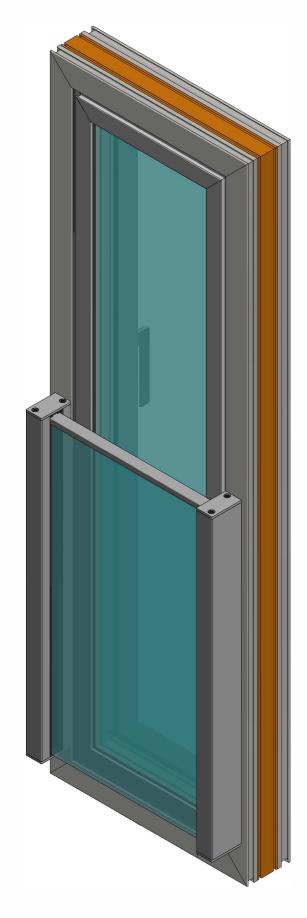
BalustradeNew elements

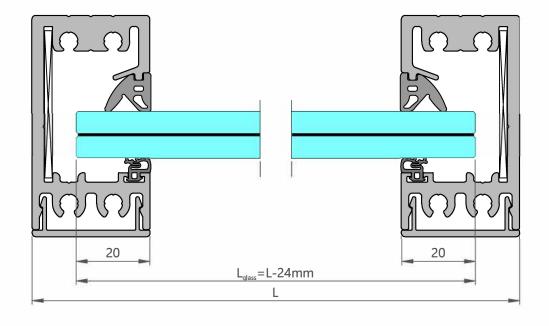


Laboratory test carried out at the Laboratory of Construction Technology in Poland

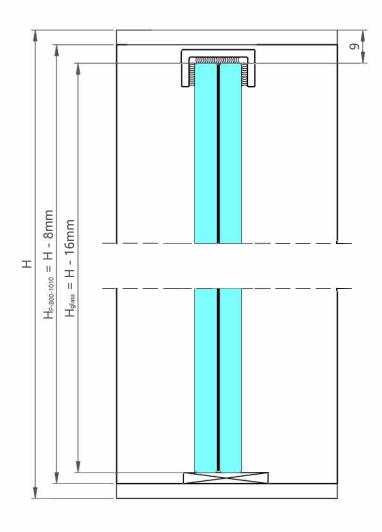


| | Ralustrade mount | ed on the PVC window | |
|----------|---|--|---------------------|
| - | | x 2074mm x 1265mm | |
| | | in 524mm x 515mm | |
| | | G 66.2 glass | |
| — | | | |
| No | Properties | Test method | Functional property |
| 1 | Resistance to static loads - horizontal force perpendicular to the balustrade plane 0,5kN/m | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 0,5kN/m |
| 2 | Resistance to static loads - vertical force in the balustrade plane 1kN | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 1kN |
| 3 | 0,5 kg hard body impact resistance | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 5J |
| 4 | Resistance to soft and heavy body impact weighing 50kg | PN-EN 13049:2004, PB LZE-140/2/04-2019 | 950 mm |
| 5 | Wind load resistance | PN-EN 12444:2002, PB LZE-140/2/04-2019 | 1190 Pa |
| 6 | Resistance to soft and heavy body impact weighing 50kg | PN-EN 13049:2004, PB LZE-140/2/04-2019 | 700mm |

| | Ralustrade mounted | on the aluminium window | 1 |
|----|---|--|---------------------|
| | | x 2074mm x 1265mm | <u>'</u> |
| | Dimensions m | in 524mm x 515mm | |
| | ESG VS | G 66.2 glass | |
| No | Properties | Test method | Functional property |
| 1 | Resistance to static loads - horizontal force perpendicular to the balustrade plane 1kN/m | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 1kN/m |
| 2 | Resistance to static loads - vertical force in the balustrade plane 1kN | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 1kN |
| 3 | 0,5 kg hard body impact resistance | PB LK-140/1/04-2013, PB LZE-140/2/04-2019 | Met for 5J |
| 4 | Resistance to soft and heavy body impact weighing 50kg | PN-EN 13049:2004, PB LZE-140/2/04-2019 | 950 mm |
| 5 | Wind load resistance | PN-EN 12444:2002, PB LZE-140/2/04-2019 | 1260 Pa |
| 6 | Resistance to soft and heavy body impact weighing 50kg | PN-EN 13049:2004, PB LZE-140/2/04-2019 | 700mm |



| 8 | Max glass dimensio | | | | |
|----|--------------------|--------|--|--|--|
| | Max wymiary szyb | | | | |
| , | H_{glass} | | | | |
| | ESG VSG 66.2 | | | | |
| | ESG VSG 66.4 | | | | |
| | ESG VSG 88.2 | | | | |
| ļ, | ESG VSG 88.4 | | | | |
| | min. | max. | | | |
| L | 500mm | 2050mm | | | |
| Н | 500mm | 1250mm | | | |



B00-SKL-0002

TECHNICAL DESCRIPTION

The Decalu balustrade system includes 'portfentre' railings for installation directly on window profiles. "Portfenetr" balustrades protect against falling out if the window sill is too short. They can be mounted to aluminum windows with a minimum 1.6 mm thick mounting wall (in the screw mounting axis) or to PVC windows on profiles with a minimum B class with steel reinforcement with a minimum 1.5 mm wall thickness. They can be used in facilities of utilization category A, B, C1 ÷ C4 according to PN-EN 1991-1-1, i.e. flats, office rooms, public utility rooms. The maximum wind load for the largest permissible glass dimensions is 1.26kN / m2.

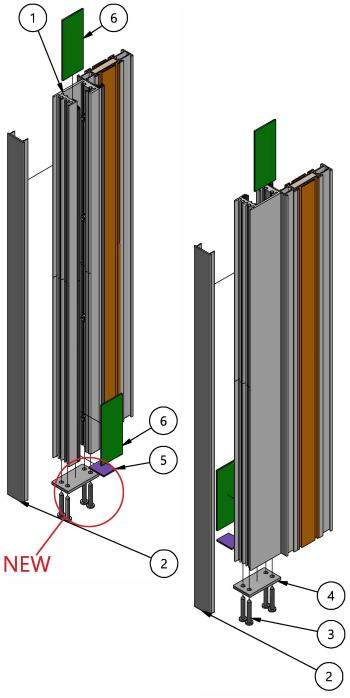
The system consists mainly of profiles P-B00-1010 bolted with an aluminum window profile using M5 stainless steel screws or bolted with a PVC window profile using galvanized steel screws with a diameter of 5.5mm and a minimum length of 60mm. To cover the mounting holes in the main profiles, an aluminum latch P-B00-1011 is used. The lower end caps of the main profiles A-B00-1132 also support the glass and are attached to the profiles with four A2 stainless steel screws A-WG-H5538. A-B00-1141 glazing washers made of hard PVC are glued on end caps A-B00-1132.

A-PS-402 PVC washers are inserted into the side chambers of the P-B00-1010 profile to protect the glass against breaking. The glass panes are mounted linearly along the vertical edges through the outer gaskets A-GS-2000R and internal A-GS-2020 (for ESG 88.2 or ESG 88.4 panes) or A-GS-2021 (for ESG 66.2 or ESG 66.4 panes). Gaskets are made of EPDM. From the top, the main profiles are closed with plugs A-B00-1133L and A-B00-1133P mounted on two A2 stainless steel screws A-WS-H5538. A-B00-1141 glazing washers made of hard PVC are glued on end caps A-B00-1133L and A-B00-1133P. The top cap also protects the glass from being removed from the top. The glass on the upper edge is protected against breaking with an aluminum handrail P-B00-1015 (for ESG 66.2 or ESG 66.4 glass) or P-B00-1016 (for ESG 88.2 or ESG 88.4 glass). The handrail is glued to the glass using glue A-B00-9920, the application should be carried out on clean degreased surfaces at a temperature from + 5 ° C to + 35 ° C.

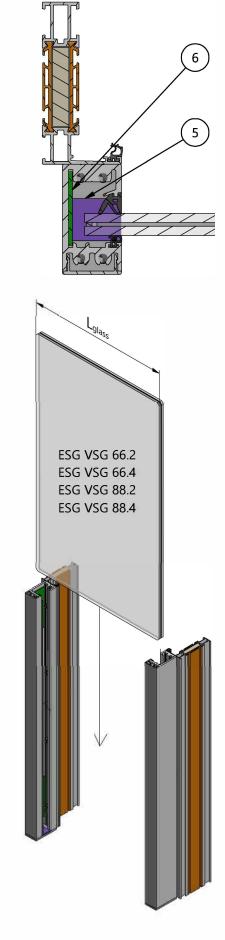
Aluminum profiles are pressed from aluminum alloy EN AW-6060 according to PN-EN 573-3, condition T66 according to PN-EN 515 and meet the requirements specified in PN-EN 755-1, their mechanical properties are consistent with PN-EN 755- 2. Dimensional deviations of profiles according to PN-EN 12020-2.

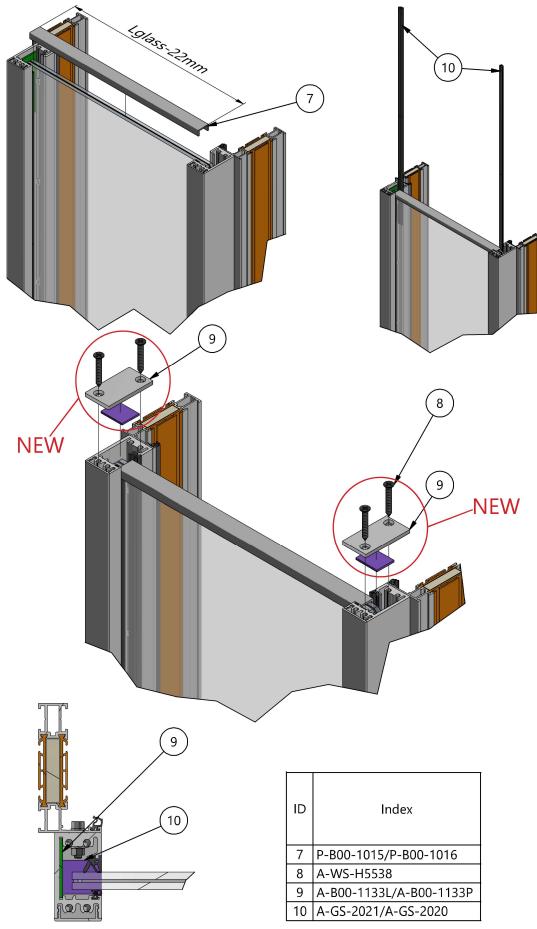
The surfaces of aluminum profiles and plugs are protected against corrosion by powder coating or anodic oxide coatings.

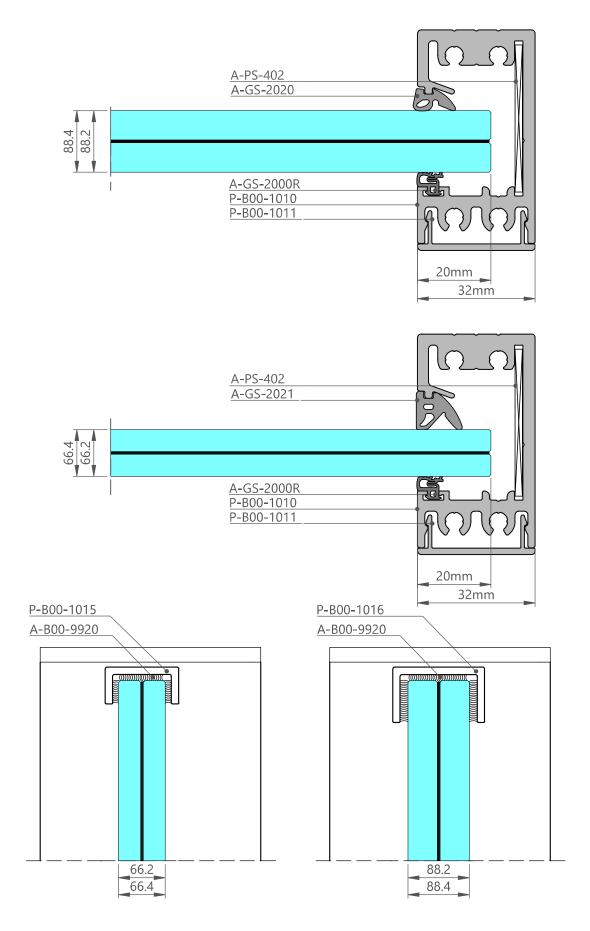
| Name of the element | Catalog number | Material |
|--|----------------|---|
| Pro | ofiles | J ₂ |
| Railing post | P-B00-1010 | aluminum |
| Balustrade post cover | P-B00-1011 | aluminum |
| The upper profile covering the glass 6.6.2 | P-B00-1015 | aluminum |
| Upper profile covering the glass 8.8.2 | P-B00-1016 | aluminum |
| Acce | ssories | |
| Bottom cover of the railing profile | A-B00-1132 | aluminum |
| Upper end cap, left, balustrade profile | A-B00-1133L | aluminum |
| Upper end cap, right, railing profile | A-B00-1133P | aluminum |
| Outer glazing gasket | A-GS-2000R | EPDM |
| 3.5-6mm internal glazing gasket | A-GS-2020 | EPDM |
| 7.5-10mm internal glazing gasket | A-GS-2021 | EPDM |
| Glazing washer 3x23x27mm | A-B00-1141 | PVC + adhesive tape |
| DIN 985 M5 self-locking nut | A-NH-005 | Steel A2 |
| Enlarged round washer DIN 9021 M5 | A-DO-005 | Steel A2 |
| Screw DIN 912 M5x20 | A-BW-I0520 | Steel A2 |
| Screw for bottom plugs DIN 7981 5.5x38 | A-WG-H5538 | Steel A2 |
| Screw for top plugs DIN 7982 5.5x38 | A-WS-H5538 | Steel A2 |
| Screw DIN 7981 5.5x60 | A-WG-H5560G | Galvanized steel |
| Montage glue | A-B00-9920 | Soudal T-REX hybrid assembly adhesive KLE / REX / GD / 2018 |

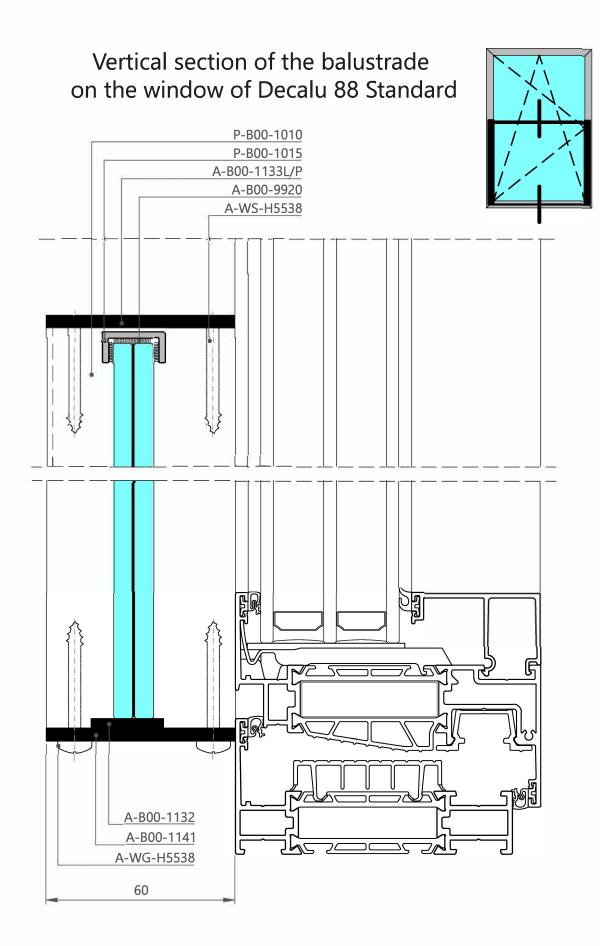


| ID | Index |
|----|------------|
| 1 | P-B00-1010 |
| 2 | P-B00-1011 |
| 3 | A-WG-H5538 |
| 4 | A-B00-1132 |
| 5 | A-B00-1141 |
| 6 | A-PS-402 |









Vertical section of the balustrade on the window of Decalu 88 Standard

