TITANE 65
HIGH RESISTANCE
DOOR

Architects: VIB Architecture, Duffau & Associés
Photographer: S. Chalmeau
STAYING AHEAD MEANS REINVENTING

When innovation and design are united in perfect harmony, it marks the beginning of a new way to inspire and imagine. TITANE 65, a timeless, elegant and robust door offering enhanced resistance and durability. A door with a minimalist design capable of adapting to and serving any architectural project.

Made from a 65 mm module, the TITANE thermal break door is fitted with a high-resistance hinge system: stainless steel pivot fully integrated into the door module.

The TITANE door aesthetic is meticulously prepared: straight and refined lines, no visible lift-off hinges, hidden hinges, door spring flush mounted in the opener transom. Security is enhanced by integrating vital functions such as the security bolt, the door spring, the locks and the electro-magnetic closures. All these components are concealed in the door to enhance its aesthetic character, but also to avoid any risk of common vandalism.

Endurance tested over more than 1 million cycles for the large version (4 m high and 1.4 m wide per leaf), the TITANE door is ideal for heavy use buildings such as administrative buildings, apartment entrances, but also for department stores, schools, offices, etc.

TITANE 65, a versatile door able to respond to any project:
- Heavy use
- Large versions up to 4 m high by 1.4 m wide the leaf
- Ease of maintenance
- After-sales intervention without door removal
- Access control by electro-magnetic closure coupled to a lock
- Withstands common vandalism
- Frontage or façade integration
- Level 1 or 2 anti-finger trap version
- Assembly with or without a threshold for buildings frequented by persons with reduced mobility

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**TITANE 65** / HIGH RESISTANCE DOOR

**DURABILITY AND RELIABILITY**
- Endurance tested of more than 1 million cycles under extreme load: 250 kg
- More than 200,000 test cycles for the lock version

**LARGE DIMENSIONS**
- Up to 4 m high and 1.4 m wide for 1-leaf door

**THERMAL PERFORMANCE**
- $U_w = 1.4 \text{ W/m}^2\text{K}$ (double glazed $U_g = 1.0 \text{ W/m}^2\text{K}$), $W \times H = 1250 \times 2180 \text{ mm}$
- $U_w = 0.90 \text{ W/m}^2\text{K}$, $T_{lw} = 0.54$, $Sw = 0.41$ (triple glazed $U_g = 0.5 \text{ W/m}^2\text{K}$) opening frame with $W \times H = 1400 \times 3000 \text{ mm}$
- Acoustic attenuation: up to 39 dB (RA,Tr)

**EASE OF MAINTENANCE**
- Interchangeability of certain components without removing the door:
  - Door spring
  - Lock
  - Electro-magnetic lock
  - Threshold

**DESIGN**
- Integrated components for completely smooth and homogeneous feel
- Straight and even sections providing an elegant and robust appearance

**SECURITY**
- Integration of the following components:
  - Door spring in upper transom with access hatch that cannot be disassembled from outside
  - Hinge system inaccessible from outside
  - Access control system integrated in the opener and the fixed frame
  - Level 1 (pivot side) and level 2 (pivot and lock side) anti-finger trap solution

**IMPERMEABILITY**
- Graded performance levels depending on the location and on exposure
  - Non-threshold version
  - Flat threshold version
  - Rebated threshold version
- All rebates take into account accessibility

**SUSTAINABILITY**
- Hydro CIRCAL® is a range of prime quality aluminium made with a minimum of 75% recycled end-of-life aluminium (post-consumer scrap), like for example facades and windows that have been dismantled from building and fully recycled. Hydro CIRCAL® has one of the lowest CO₂ footprint worldwide: 2.3 kg of CO₂ / kg of aluminum. Environmental Product Declaration (EPD) on request
TITANE 65
/ MORE THAN A DOOR, A PROMISE FOR THE FUTURE

ENDURANCE IS ITS STRENGTH
TITANE 65 handles a very high open and close cycle, it is thus designed to withstand a continuous flow of movement of more than 1 million cycles, corresponding to 1370 cycles a day during 2 years. These tests include:
• Rotation system durability
• Opener stiffness
• Innovative connection system for the opening frame (patent)
• Tests under extreme load: 250 kg
• Locks tested for more than 200,000 cycles

EASE OF MAINTENANCE
With TITANE 65, the door does not need to be removed for maintenance since the wear parts can be replaced on site.
This door is formed by independent items that facilitate a targeted and localised intervention. This helps to keep your building secure, whilst performing maintenance within a limited time period.
Easily interchangeable components: door spring, lock, electro-magnetic lock, threshold, etc.
TITANE 65 / CONSUMMATE DESIGN

MINIMALISM FOR ALL OCCASIONS
TITANE 65 will remain a real asset for your projects by finishing the assertive design of buildings. The elegance of its lines and their discretion make it timeless.

GREATNESS IS MEASURED IN THE DETAILS
Finesse is consistent with strength. These lines do not detract from the feeling of security conveyed by TITANE 65. This perception is underlined by the careful attention that is given to the details.

• Pivot integrated in the door module: no visible or protruding parts.
• Door spring integrated in the upper transom with a discrete and exclusively designed inspection hatch.

REAL ELEGANCE IS THE WATCHWORD OF ANY CREATION
For TECHNAL, the elegance and design of a product is conveyed in the details, the harmony of the elements thus naturally comes to the fore.

RETHINK YOUR EXPECTATIONS
TITANE 65 is a multi-purpose door with dimensions that can be adjusted to suit the design of the building. It easily integrates into your project without ever having to distort or compromise its aesthetic.

It can approximately measure 4 meters high by 1.4 meters wide for a maximum weight of 250 kg per leaf. Its new binding system guarantees a great rigidity of the opening frame. Thanks to this equipment, TITANE large dimensions has the appropriate features to deal with great traffic.

TITANE 65, TIMELESS
TITANE 65 is a reinterpretation of the original version, a door that impressed both people and spaces, with more than 100,000 being installed since it was launched, thus establishing a solid and permanent concept.

TITANE 65 withstands all climatic conditions, being designed to withstand the external elements, it forms a barrier that cannot be affected by the weather.

Its excellent performance characteristics make it a genuine thermal shield, guaranteeing the well-being and the comfort of occupants. The TITANE 65 door is a pioneer in combining durability and high thermal performance. For example, the triple glazed version can achieve $U_e = 0.90 \text{ W/m}^2\text{K} \text{ (W x H = 1400 x 4000 mm)}$, which contributes to the energy performance of your projects.

DESIGNED FOR YOUR PEACE OF MIND
All TITANE 65 components are fully integrated. It does not have any protruding elements, making it impervious to common vandalism.

It was designed so that the mechanisms cannot be accessed from outside, making it a veritable fortress. Its design offers occupants peace of mind.

MADE-TO-MEASURE SECURITY
1st level: all doors meet the security requirements for common vandalism (all components are hidden).
2nd level: anti-finger trap protection, essential for all educational buildings or other buildings accommodating young people.
3rd level: break-in delay for all bank, jewellery, luxury goods buildings.

TITANE 65 / PERFORMANCE AND SECURITY

Photography: Anne Vachon Productions

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Access hatch for maintenance.

Double handle with TECHNAL logo (exclusive).

Flat threshold contributing to the straight and continuous lines.
TITANE 65

FULL RANGE OF HANDLES

- Pull handle with TECHNAL logo (exclusive)
- Pull handle large dimensions
- Rectangular pull handle
- Half-moon handle
- Round push bar deported
- Recessed trilobe push bar
- Round inox push bar
- Integrated handle in the vertical vent profile
- Handle with exclusive design TECHNAL with lock
- Inox handle with lock

TITANE 65

ENHANCED SECURITY

- Locking points with stainless steel faceplate
- Adjustable lateral strike plate
- Central lock with spare stainless steel strike plate
- Adjustable central strike plate
- Electromagnetic lock on a door

BASIC LOCKS, MULTI-POINT LOCKS WITH CONTINUOUS FACEPLATE

- 1-point lock with ½ turn bolt for the fixed frame
- 3-point lock with continuous stainless steel faceplate, lift-handle and key-lock
- 2 and 3-point internal locks
- Additional points for 3-point lock with continuous stainless steel faceplate
- Extension for additional points

STRIKE PLATES

- Adjustable strike plates available in polyamide and stainless steel versions
- Spare adjustable stainless steel strike plate as a replacement for the cylinder lock
- Cover behind the strike plates
- Electric strike plates

ACCESS CONTROL

- Surface mounted magnetic lock: maximum resistance 300 kg per element
- This magnetic lock can be coupled to a 2-point lock to provide control for daytime access and for night time locking
- Technical mullion for access control integration: door code, fingerprint reader, electronic badge...
- Illuminated push button with buzzer
PERFORMANCES

PERFORMANCES (A.E.V.)

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Dimensions (W x H)</th>
<th>Air permeability</th>
<th>Water tightness</th>
<th>Resistance to wind pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 leaf door, outwards opening, rebate threshold</td>
<td>1200 x 2500 mm</td>
<td>Class 6</td>
<td>Class 7B</td>
<td>Class C5</td>
</tr>
<tr>
<td>2 leaf door, outwards opening, rebate threshold</td>
<td>1200 x 2500 mm</td>
<td>Class 3</td>
<td>Class 7B</td>
<td>Class A3</td>
</tr>
<tr>
<td>1 leaf door, outwards opening, flat threshold</td>
<td>1200 x 2500 mm</td>
<td>Class 3</td>
<td>Class 1B</td>
<td>Class C5</td>
</tr>
<tr>
<td>1 leaf door, outwards opening, rebate threshold</td>
<td>1290 x 3700 mm</td>
<td>Class 3</td>
<td>Class 3B</td>
<td>Class C5</td>
</tr>
</tbody>
</table>

PV N°404/17/161-1

ACOUSTIC PERFORMANCES

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Glazing type</th>
<th>Glazing thickness</th>
<th>Acoustic attenuation glazing (dB)</th>
<th>Acoustic attenuation TITANE 65 door (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 leaf door</td>
<td>88.2 Acoustic / 20 (Ar) / 66.2 Phonilam 49 mm</td>
<td>52</td>
<td>47</td>
<td>41</td>
</tr>
<tr>
<td>2 leaf door</td>
<td>88.2 Acoustic / 20 (Ar) / 66.2 Phonilam 49 mm</td>
<td>52</td>
<td>47</td>
<td>41</td>
</tr>
</tbody>
</table>

THERMAL PERFORMANCES - Uw

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Dimensions (W x H mm)</th>
<th>Uw (W/m².K)</th>
<th>with Uw = 1.1 +</th>
<th>with Uw = 1.0 +</th>
<th>with Uw = 0.8 +</th>
<th>with Uw = 0.6 +</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 leaf door, glazed</td>
<td>1250 x 2190</td>
<td>1.50</td>
<td>1.40</td>
<td>1.30</td>
<td>1.20</td>
<td>1.10</td>
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<tr>
<td>2 leaf door, glazed</td>
<td>1530 x 2190</td>
<td>1.60</td>
<td>1.50</td>
<td>1.40</td>
<td>1.30</td>
<td>1.20</td>
</tr>
<tr>
<td>1 leaf door, glazed</td>
<td>1470 x 3050</td>
<td>1.50</td>
<td>1.40</td>
<td>1.30</td>
<td>1.20</td>
<td>1.10</td>
</tr>
<tr>
<td>1 leaf door, glazed</td>
<td>1470 x 4050</td>
<td>1.40</td>
<td>1.30</td>
<td>1.20</td>
<td>1.10</td>
<td>1.00</td>
</tr>
</tbody>
</table>

* Stainless steel spacer or equal

MATERIALS AND PARTS

As with all TECHNAL systems, only the best materials and parts are used to minimise maintenance and ensure long-term performance.

• Fittings are cast from EN 12844 compliant Zamak 5.
• All gaskets are EPDM or TPE (Thermoplastic elastomer).
• The thermal breaks are made with PA6-6 (0.25 FV) and ABS.
• Screws are made from stainless steel.

FINISHES AND COLOURS

A wide range of finishes and colours is available to meet individual project requirements, enhancing existing buildings and offering architects and designers greater design freedom:

• Natural anodised in accordance with EN 12373: 2001.
• Polyester coating finishes in a wide range of colours in accordance with “QUALICOAT” instructions.
• TITANE 65 is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.

PROFILES

• TITANE 65 is made from Hydro CIRCAL®, recycled low carbon aluminium. That means it’s prime quality aluminium made with a minimum of 75% recycled end-of-life aluminium (post-consumer scrap). Hydro CIRCAL® has one of the smallest CO2 footprint worldwide: 2.3 kg of CO2 per kilo of aluminium.
• The aluminium profiles are extruded from alloys 6060 Building compliant with EN 12020, EN 573-3, EN 515 and EN 775-1 to 9.
IMAGINE WHAT’S NEXT