



# **Ventilated Facade Systems for Cladding Materials**

Technical brochure

# Forte

Forte / Forte L

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# Forte L

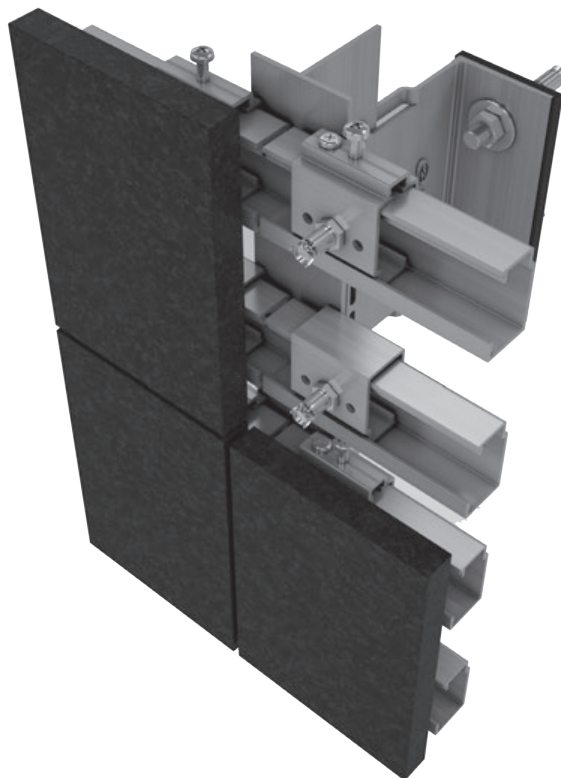
Forte L is designed for invisible mounting of thin and smooth façade materials through undercut anchors. The undercut anchors, system accessories, and designed profiles allow secure mounting of HPL, fibre cement, ceramics, and stone with less than 25 mm thickness. Forte Light Ventilated System uses fixing anchors to guarantee the connections between the façade material and the main profiles of the system..

## Main advantages:

- | perfect vision of the façade with no visible holding elements; large variety of sizes and designs of the façade materials
- | highest level of security when fixing the tiles, due to the undercut anchors
- | possibility to use façade materials with thickness ranging from 10mm to 25mm
- | fast and easy installation - 1.5 sq.m. per person per hour
- | secure and fully engineered work, which covers the entire project, and guarantees a complete system solution

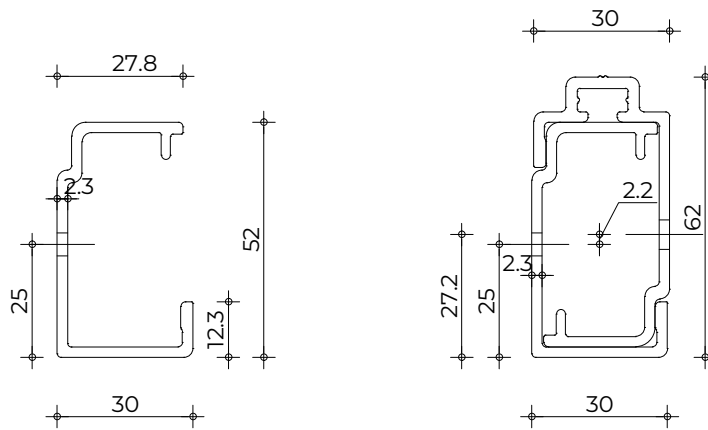
## Cladding Materials

- | Ceramic Tiles, Glass, High Pressure Laminates (HPL), Fibre Cement, Stone, Technical Stone, Composite Mineral Material, Glass Fiber Reinforced Concrete GFRC, GREP, Light Transmitting Concrete

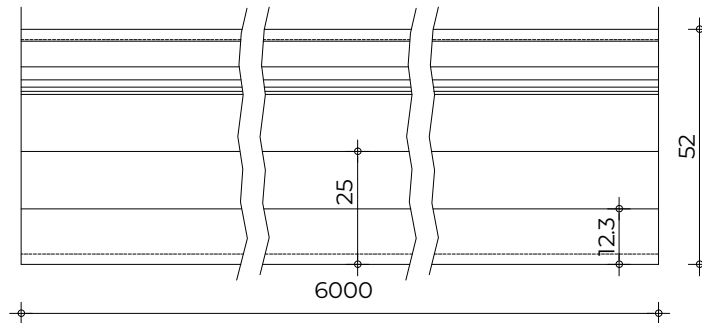


# Forte L - Aluminium, Horizontal Support Profile

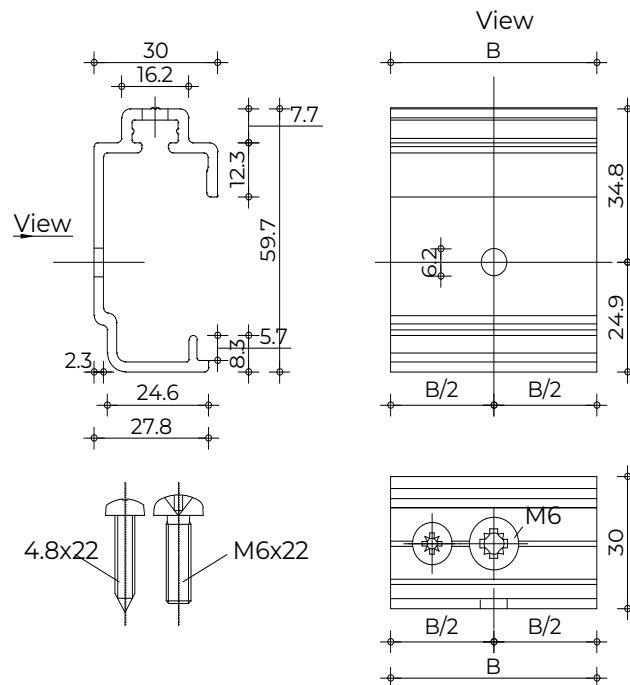
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Horizontal profile

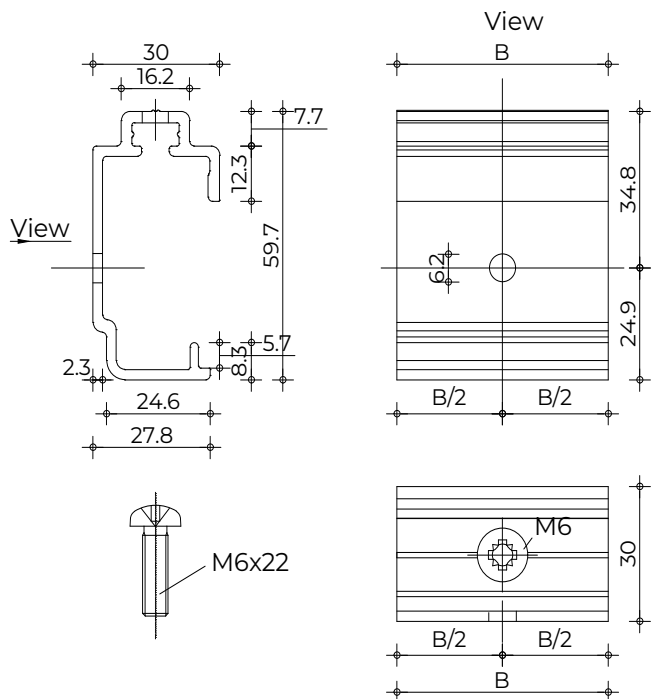


# Forte L - Aluminium, Hanger Adjustable for Fixed Support



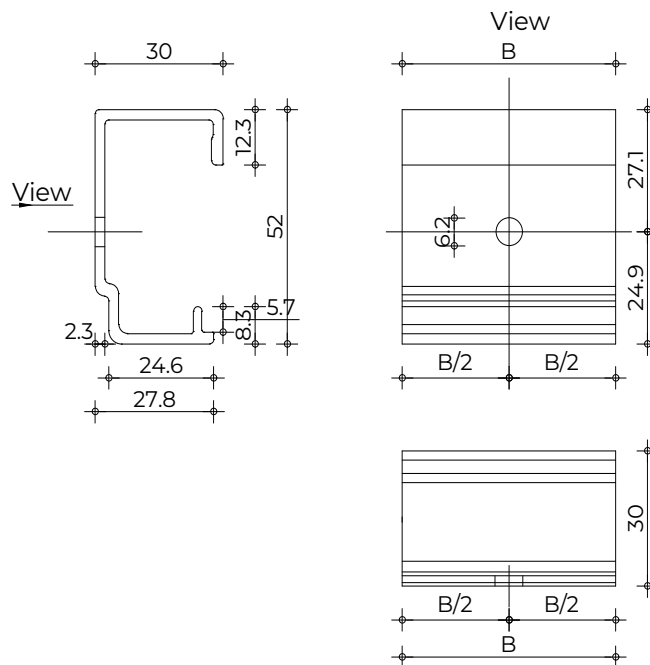
Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		

# Forte L - Aluminium, Hanger Adjustable for Flexible Support

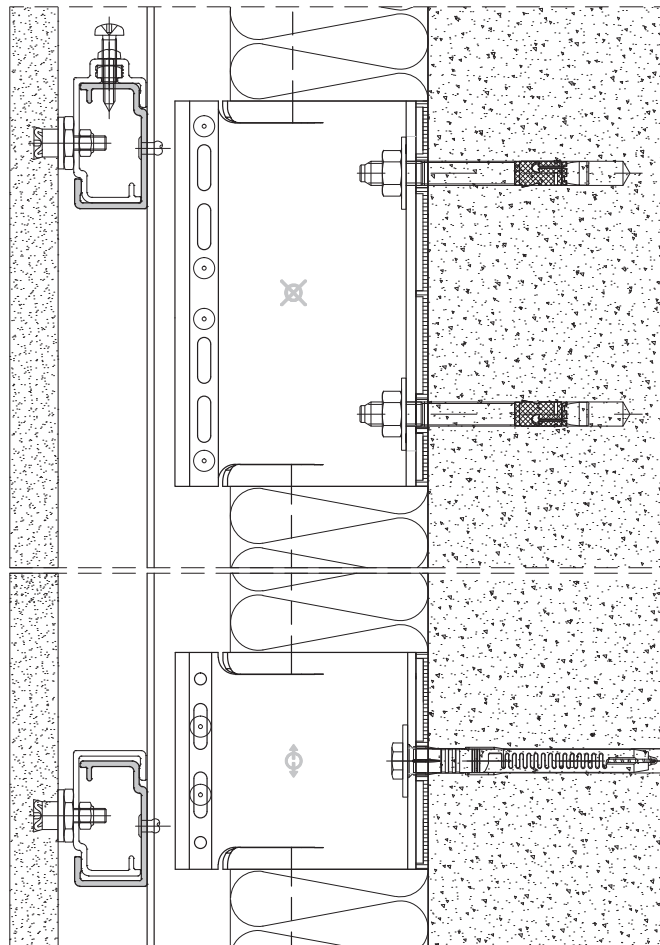
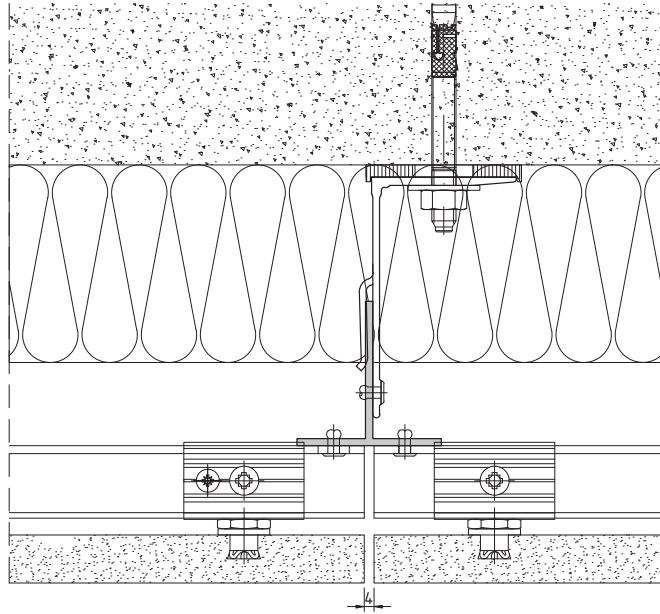


Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		

# Forte L - Aluminium, Hanger Flexible Support



Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		





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# Forte

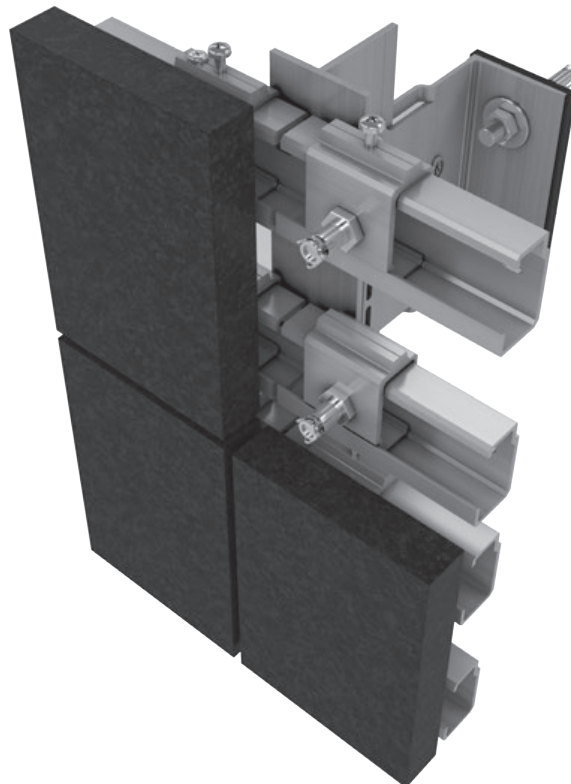
The system is designed for mounting heavy façade materials with thickness more than 25 mm. The profiles and accessories are constructed to bear extreme pressures, caused by façade materials with weights up to 90 kg per sq.M. Forte ventilated system uses undercut fixing anchors to guarantee the connections between the façade material and the main bearing structure of the system. It is an unique undercut technology for drilling and mounting of the anchor on the back (invisible) section of the façade material.

## Main advantages:

- | perfect vision of the façade with no visible holding elements
- | large variety of sizes and designs of the façade materials
- | highest level of security when fixing the plates due to the undercut anchors possibility to
- | use façade materials with thickness ranging from 25mm to more than 35mm
- | fast and easy installation

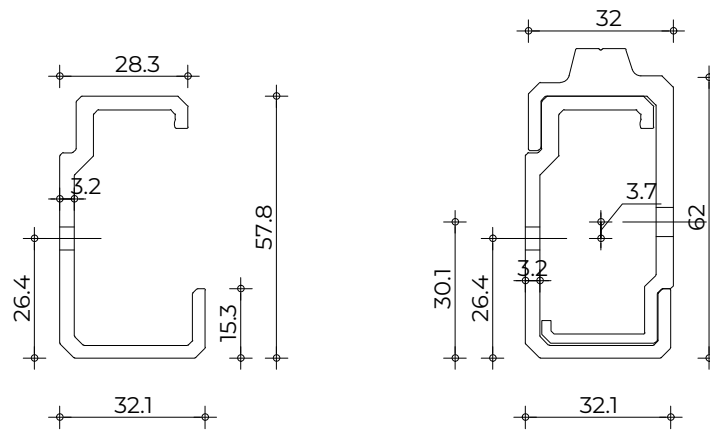
## Cladding Materials

- | Ceramic Tiles, Stone, Technical Stone, Light Transmitting Concrete

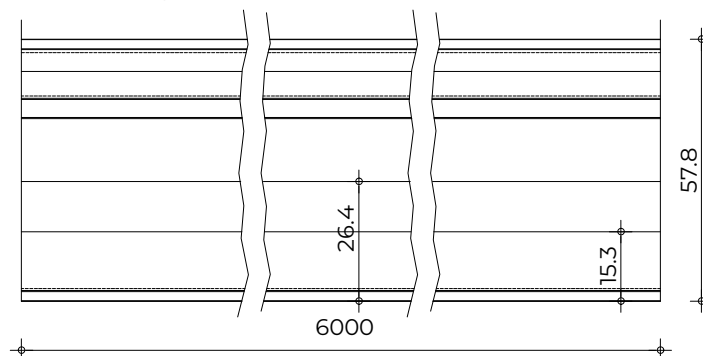


# Forte - Aluminium, Horizontal Profile

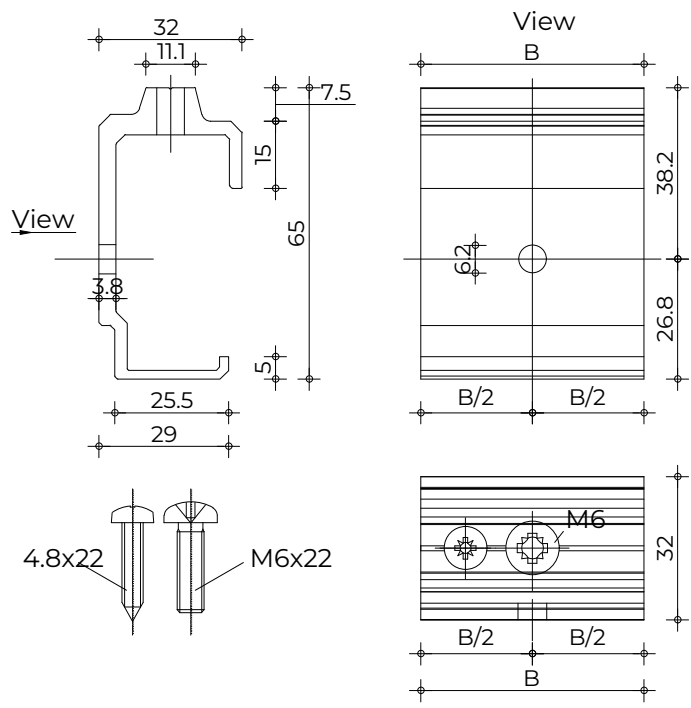
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



Horizontal profile

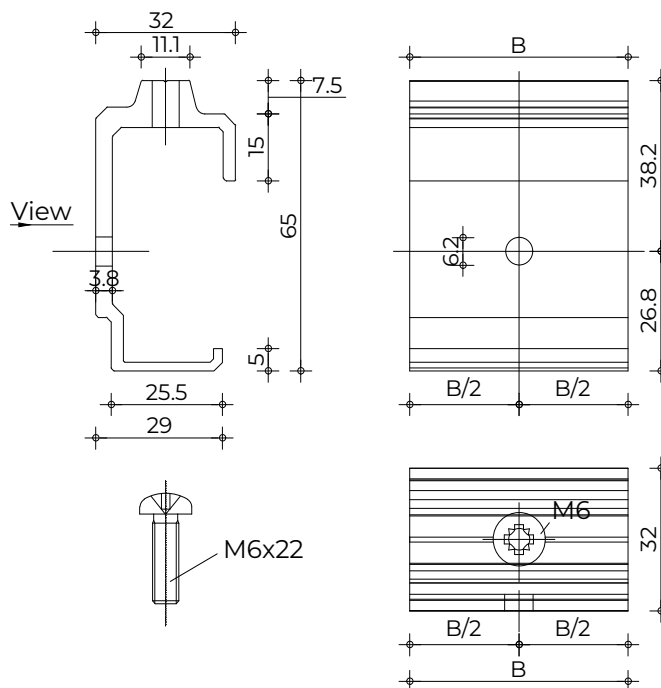




# Forte - Aluminium, Hanger Adjustable for Fixed Support



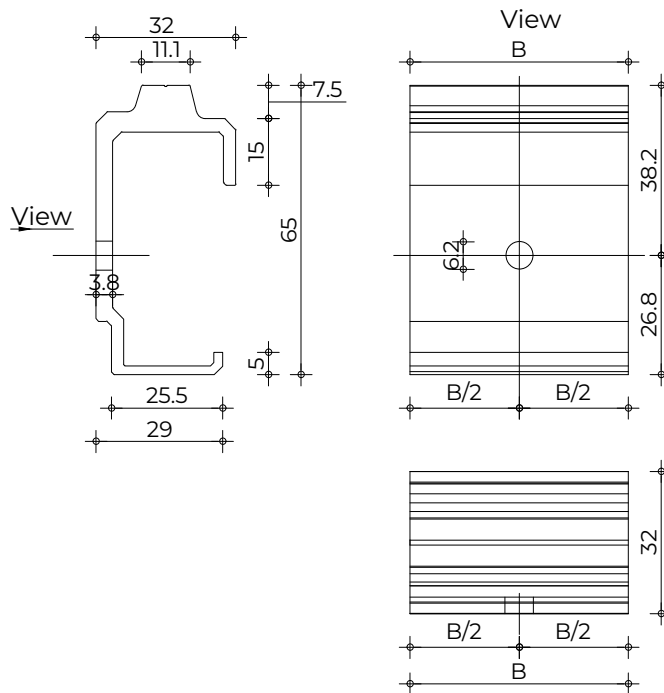
Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		



# Forte - Aluminium, Hanger Adjustable for Flexible Support

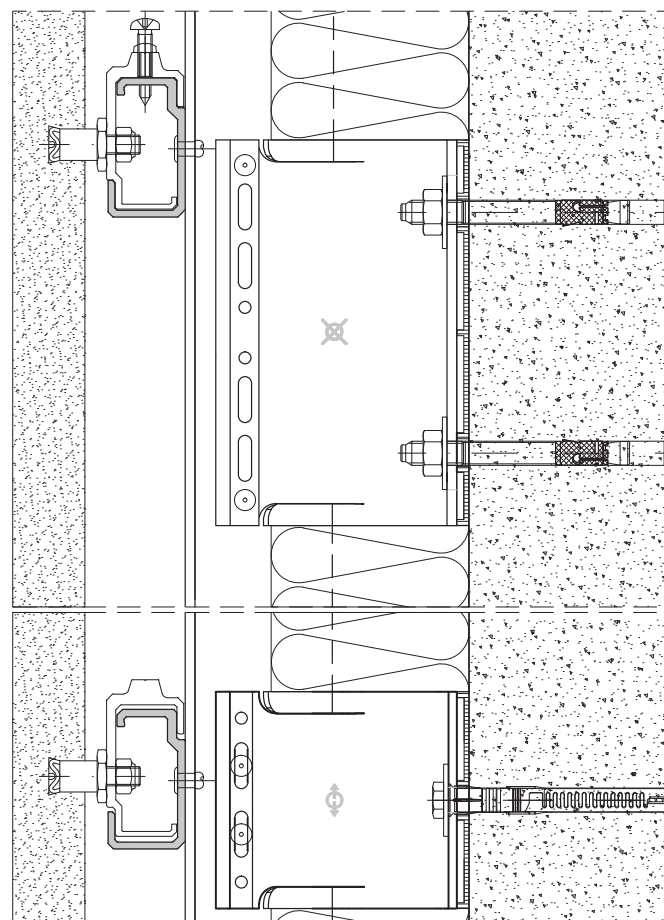
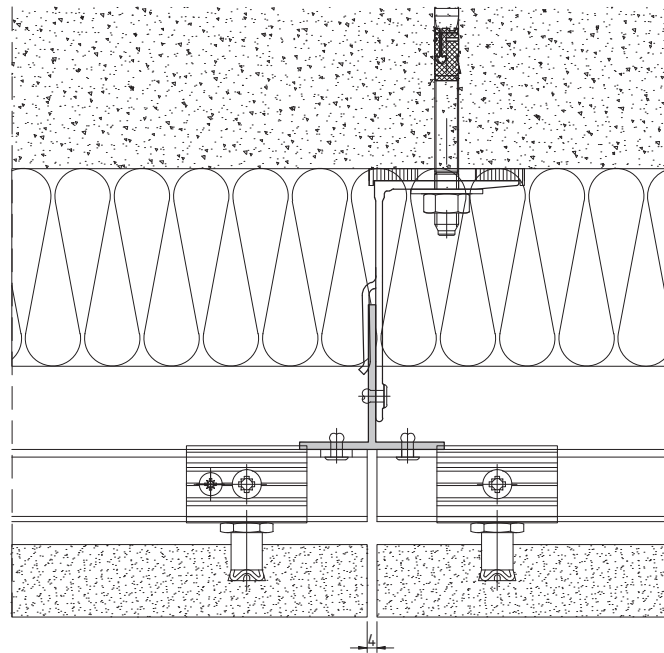


Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		

# Forte - Aluminium, Hanger Flexible Support



Application	hole type	B =
Fischer FZP/M6		60 mm
Fischer FZP/M8		



# Standards & liability

# Standards

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## General

EN 12020 (1÷2) - Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063

EN 755 (1÷9)- Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles

EN 573 (1÷3) - Aluminium and aluminium alloys - Chemical composition and form of wrought products

EN 15088 - Aluminium and aluminium alloys - Structural products for construction works - Technical conditions for inspection and delivery

EN 1990 Eurocode - Basis of structural design

EN 1991 Eurocode 1 - Actions on structures

EN 1998 Eurocode 8 - Design of structures for earthquake resistance

EN 1999 Eurocode 9 - Design of aluminium structures

## Ventilated façade systems

ETAG 034, part 1 - Kits for external wall claddings, Part I: Ventilated cladding kits comprising cladding components and associated fixings

ETAG 034, part 2 - Kits for external wall claddings, Part II: Cladding kits comprising cladding components, associated fixings, subframe and possible insulation layer

CWCT Standard for Systemized Building Envelopes

EN 13830 - Curtain walling - Product standard

EN ISO 6946 - Building components and building elements - Thermal resistance and thermal transmittance - Calculation method

EN ISO 10211 - Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations EN

ISO 14683 - Thermal bridges in building construction - Linear thermal transmittance - Simplified methods and default values

EN 13116 - Curtain walling - Resistance to wind load - Performance requirements

EN 12179 - Curtain walling - Resistance to wind load - Test method

EN 14019 - Curtain Walling - Impact resistance - Performance requirements

EN ISO 10140 - Acoustics - Laboratory measurement of sound insulation of building elements

EN 20140 - Acoustics - Measurement of sound insulation in buildings and of building elements

EN ISO 717-1 - Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation



# Liability

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The stated data and calculating methods are provided by RJ Facades as a guideline only.

The information given in this catalogue does not substitute all applicable regulations – Eurocodes, harmonized European standard, national or regional building codes.

The specific conditions and technical details of every particular project have to be taken into consideration.

The right choice of all elements as well as any special requirements regarding stability of the structure must always be considered by the structural/façade engineer, responsible for the project.

The solution presented in these pages are indicative and cannot cover all possible project cases. Because of that every single project has to be evaluated by the structural/façade engineer in charge taking into consideration the specific features, such as climate conditions, location, orientation, etc.

RJ Facades is not liable for any calculation and conclusions made on the basis of the stated information. All calculations and specifications must be estimated, endorsed and guaranteed by architect, engineer, professional or legal entity authorized by law for such activities.

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