
See the light

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Photography: Amit Geron

46 FRISHMAN

Architect:
MYS ARCHITECTS

Façade:
DABI-DAVID

SPECS

Shading system:
V8E29 (~4500 panels)

Control system:
MCU9206 controllers &
MCP9126 IR remote controls

Glass:
Guardian SN70\37

See the light.

We see the light. And we want you to see the light, too. After all, natural daylight is the heart of Orshade. Architects, designers and developers all know that natural light is not only healthier, but also creates a more productive living environment. We at Orshade harness and optimize this natural daylight to your benefit and ultimate well-being.

In this 2018-2019 edition of our catalogue you can find some new shading systems such as the new VBH designed for private residencies, along-side our well established existing systems both manual and motorized, such as the **VBM** and **VBE** series. Whether you seek to regulate light in your apartment, office or anywhere else we can help you find the way.

TABLE OF CONTENT

Photography: Shai Gil

ORSHADE RESIDENTIAL

Orshade is coming to your doorstep with our New Orshade Home Systems! Through these smart and simple solutions, the sun livens up your home better than before.

Encapsulated inside a double or triple glazed unit, the system stays clean and maintenance-free, allowing precise control over the amount and angle of daylight. They are both easy to install and operate, require no hardwiring, making it perfect for your home.

Perfect for retrofit projects

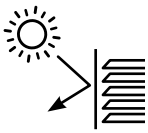
Advanced product-protection features

Clean and maintenance free

Simple to install requires no hard-wiring

Allows privacy by a push of a button

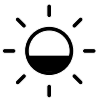
2 optional warm-edge spacer colors - black\grey



Enhanced thermal performance

Available with a large variety of slat colors

Maximum size limitation up to 3.5 M2



Precise light control

3 optional controller colors - black\grey\white

VBH

Invite natural daylight into your home with the brand new motorized **VBH** series by Orshade. The **VBH** is simple to install, requires no hardwiring, and can be retrofitted into a wide range of existing window frames - Old becomes new with **VBH**.

The **VBH** features a motorized blind system, encapsulated inside a double or triple glazed sealed unit and operated by a small, yet powerful 24 V DC encoder motor, powered by a high quality battery. The **VBH** is controlled by an elegant controller unit mounted on the glass by a magnetic bracket. The controller can be detached and moved around between the different glasses in the house and operate them regardless of their size.

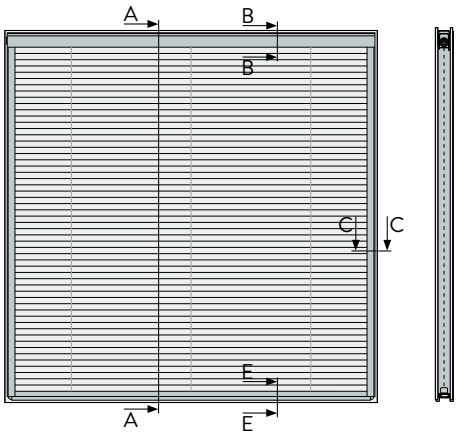
The **VBH** is the perfect choice for retrofit installations as it requires no hard-wiring, no wall switches and no pre-existing infrastructure.

Photography: Torben Hedemose

DETAILED DIMENSIONS in mm

VBH 20mm

SECTION A-A



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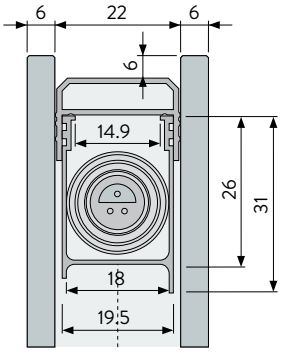

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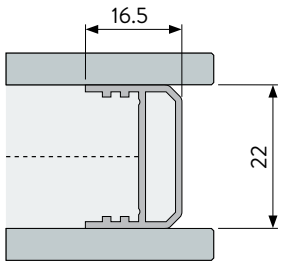

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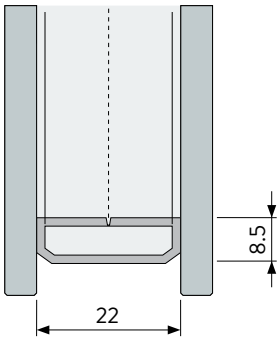
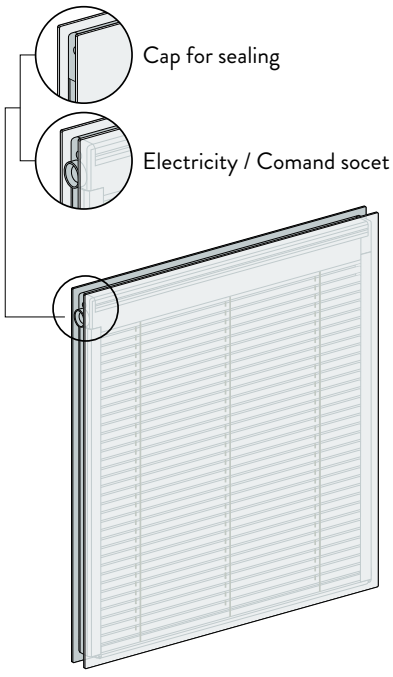




NAVE NOF TOWER

Architect:
YASHAR ARCHITECTS

Façade:
ALUMAYER

SPECS

Shading system:
VBE29 (~5500 Panels)

Control system:
MCU9206 controllers & MCP9126 IR remote controls

Glass:
Guardian Climaguard

VBM SERIES

VBM TL
VBM TOH
& VBM TOV

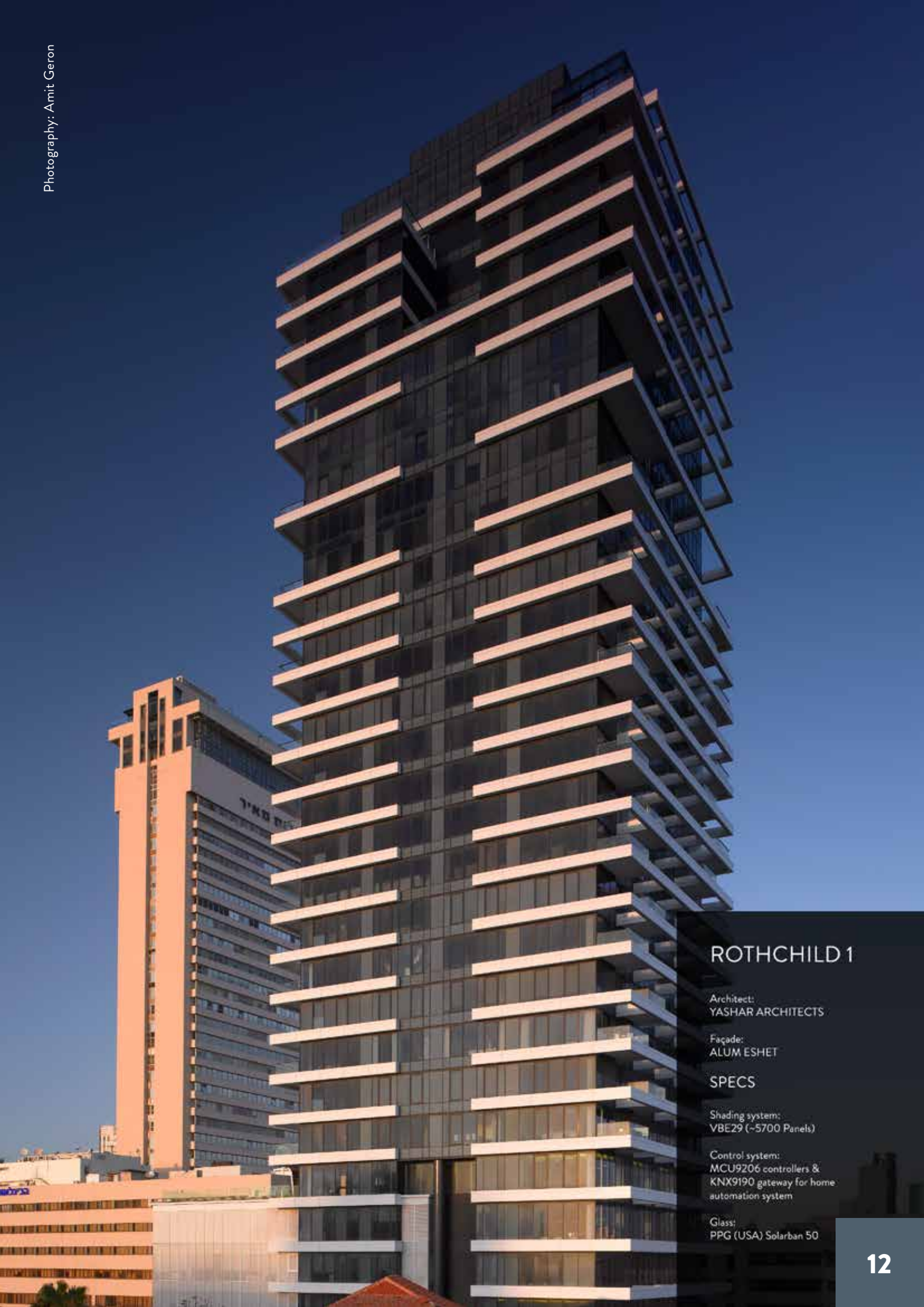
Simple Reliable Elegant.

Elegant, Maintenance-free and extra durable, The **VBM** series is a manually operated blind system designed to meet the special demands of hospitals, office buildings, and other types of public buildings.

A “smart-and-simple” magnetic mechanism allows smooth tilt-and-lift functions of the blind via a small, elegant and ergonomic handle.

The **VBM** series is available in 18mm, 20mm or 25mm air cavity versions.

Tilt and lift magnetic handles are positioned on the sides of the Double glazed unit and are operated vertically.



Photography: Amit Geron

ROTHCHILD 1

Architect:
YASHAR ARCHITECTS

Façade:
ALUM ESHET

SPECS

Shading system:
VBE29 (~5700 Panels)

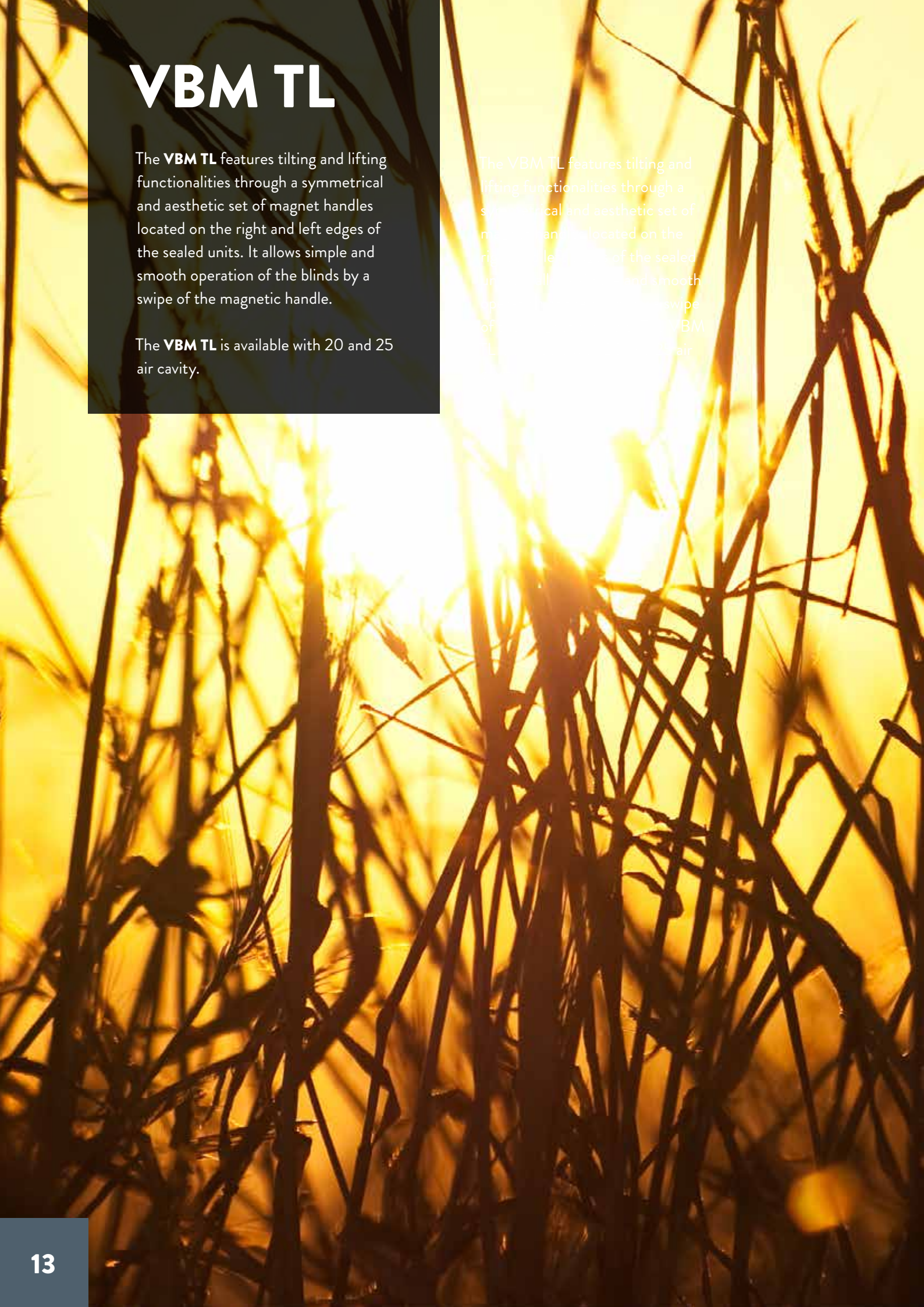
Control system:
MCU9206 controllers &
KNX9190 gateway for home
automation system

Glass:
PPG (USA) Solarban 50

VBM TL

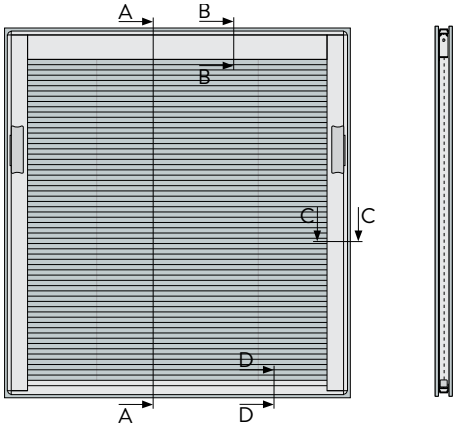
The **VBM TL** features tilting and lifting functionalities through a symmetrical and aesthetic set of magnet handles located on the right and left edges of the sealed units. It allows simple and smooth operation of the blinds by a swipe of the magnetic handle.

The **VBM TL** is available with 20 and 25 air cavity.



DETAILED DIMENSIONS in mm

SECTION A-A



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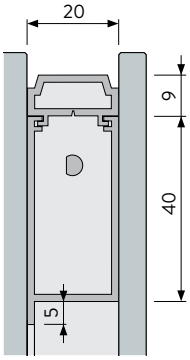

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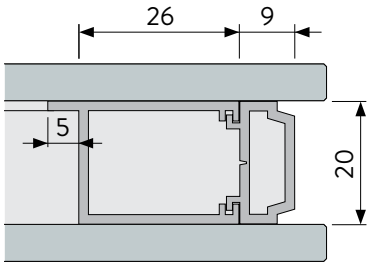

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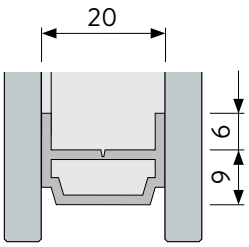
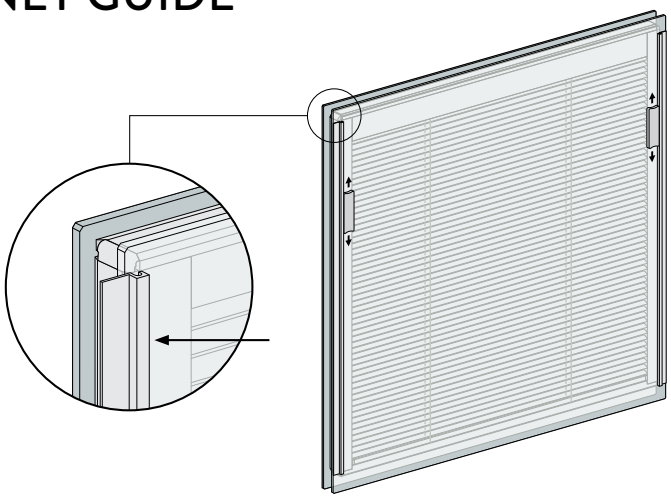
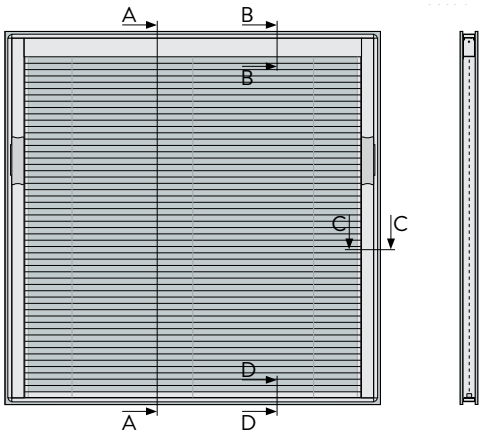


MAGNET GUIDE



DETAILED DIMENSIONS in mm

SECTION A-A



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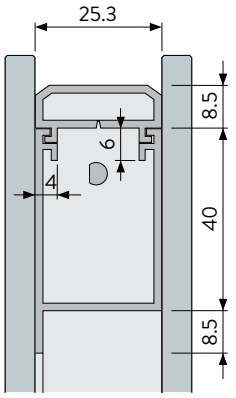

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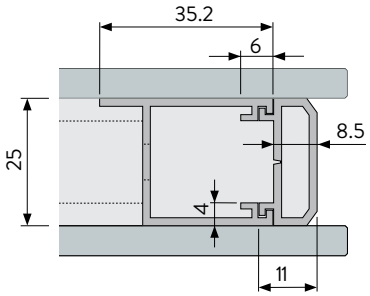

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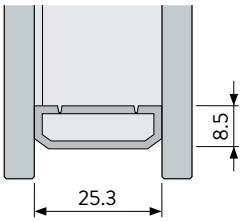
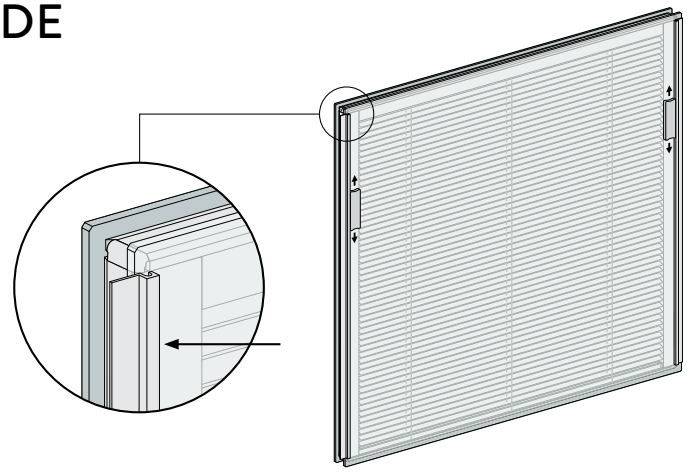


MAGNET GUIDE

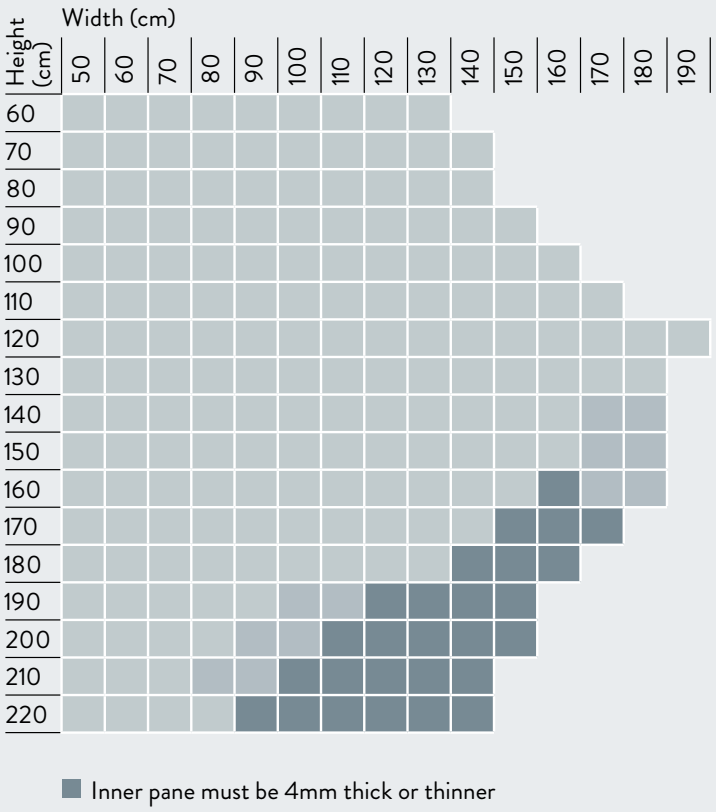


FEASIBILITY

To select the unit configuration compatible with the opening dimensions, consult the table below.

NOTE

Height must be > 50% of the width.



YOO TEL-AVIV

Architect:
MYS ARCHITECTS

Façade:
ALUM ESHET

SPECS

Shading system:
VBE29 (~12,000 Panels)

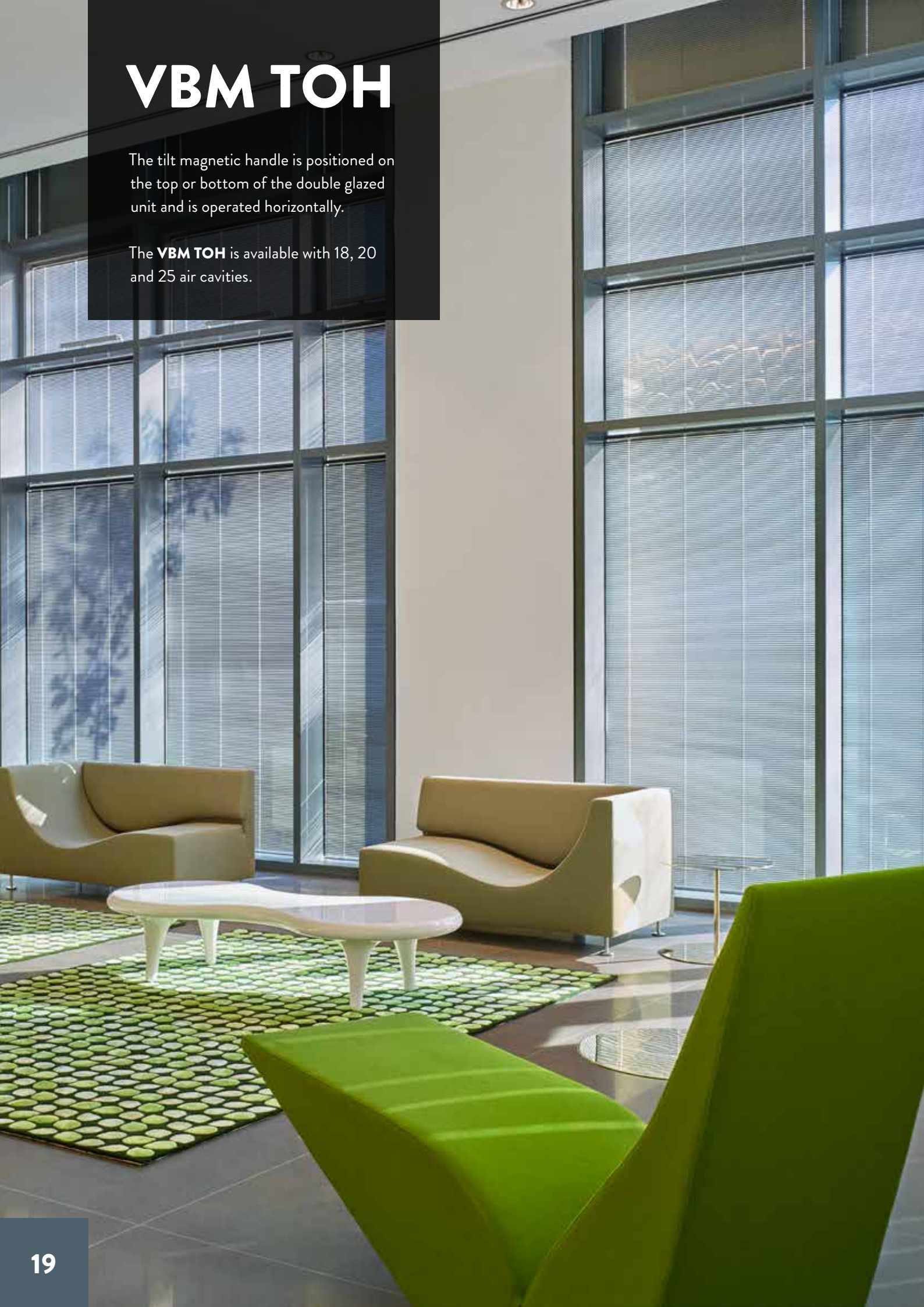
Control system:
MCU9206 controllers & KNX9190 gateway for home automation system

Glass:
Viracon (USA) VE1-52

VBM TOH

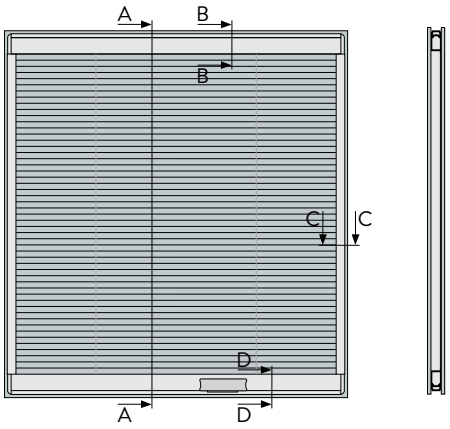
The tilt magnetic handle is positioned on the top or bottom of the double glazed unit and is operated horizontally.

The **VBM TOH** is available with 18, 20 and 25 air cavities.



DETAILED DIMENSIONS in mm

SECTION A-A



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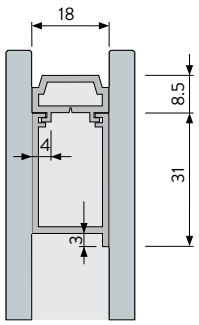

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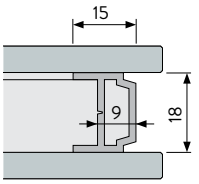

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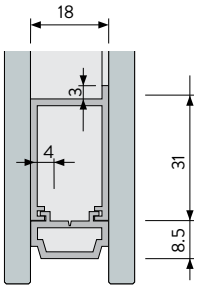
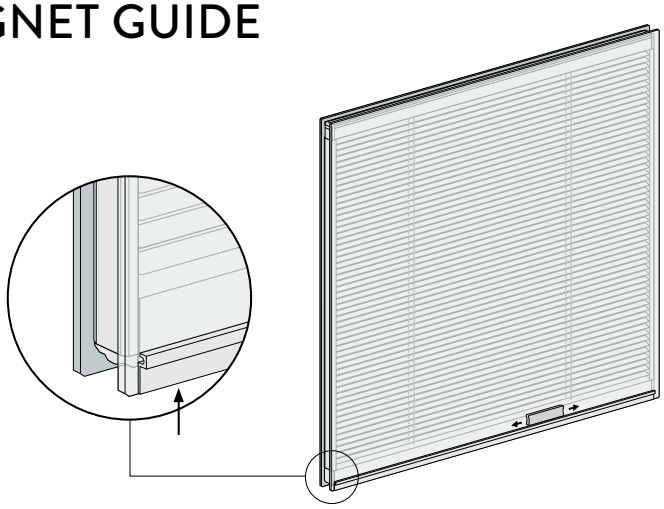
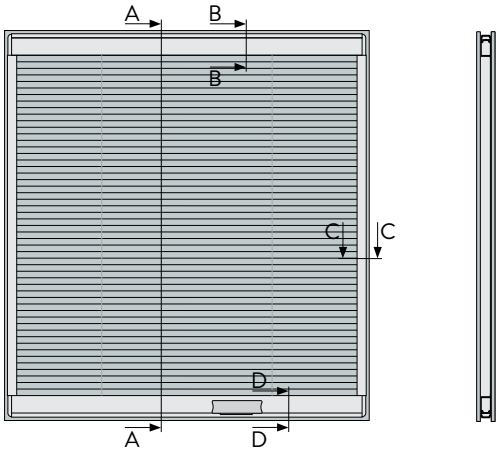


MAGNET GUIDE



DETAILED DIMENSIONS in mm

SECTION A-A



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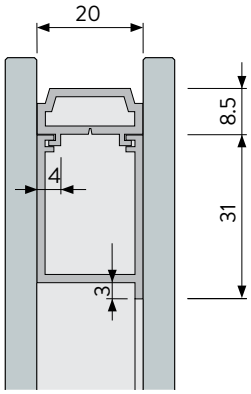

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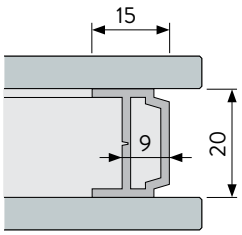

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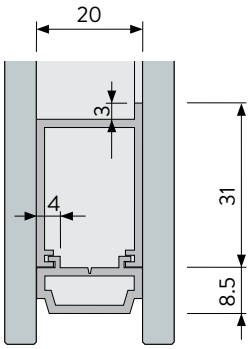
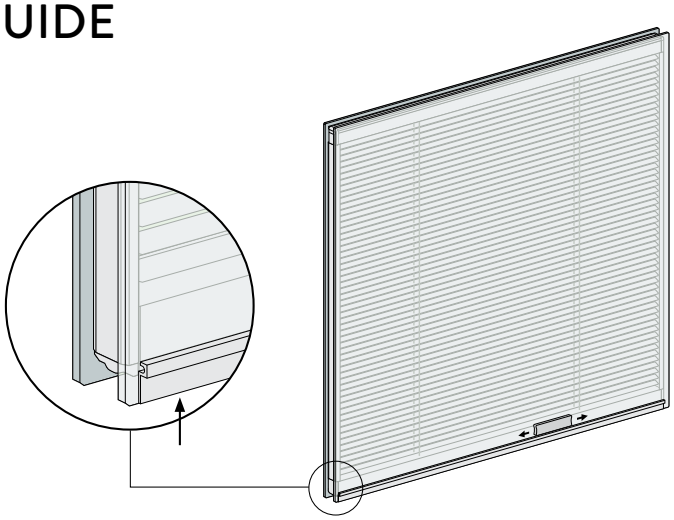


MAGNET GUIDE



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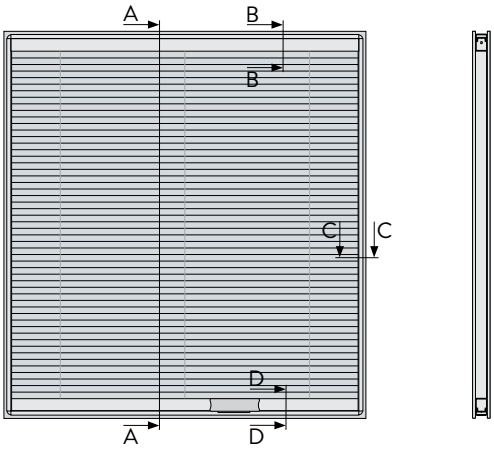

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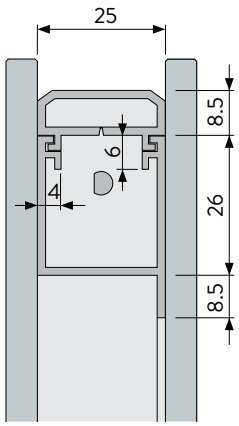

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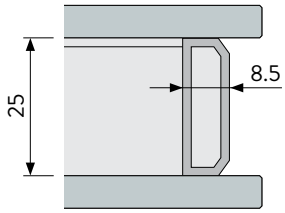

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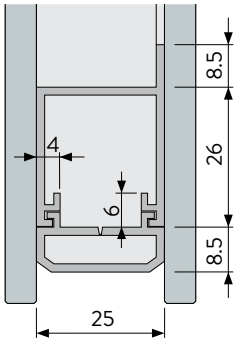
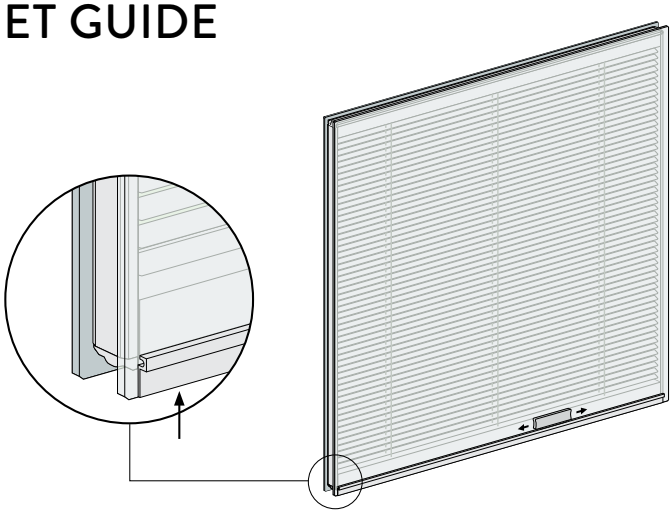


MAGNET GUIDE



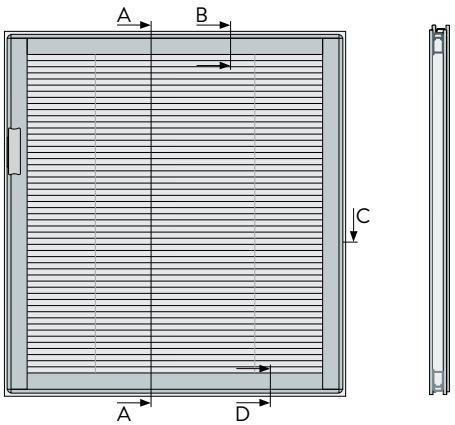
VBM TOV

The tilt magnetic handle is positioned on the left or right of the Double glazed unit and is operated horizontally.

The **VBM TOV** is available with 18, 20 and 25 air cavities

DETAILED DIMENSIONS in mm

SECTION A-A



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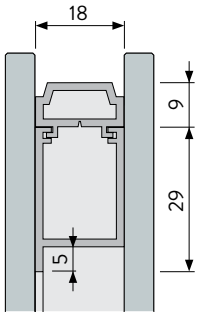

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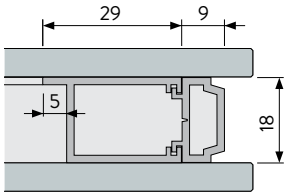

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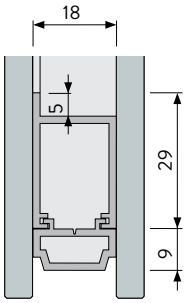
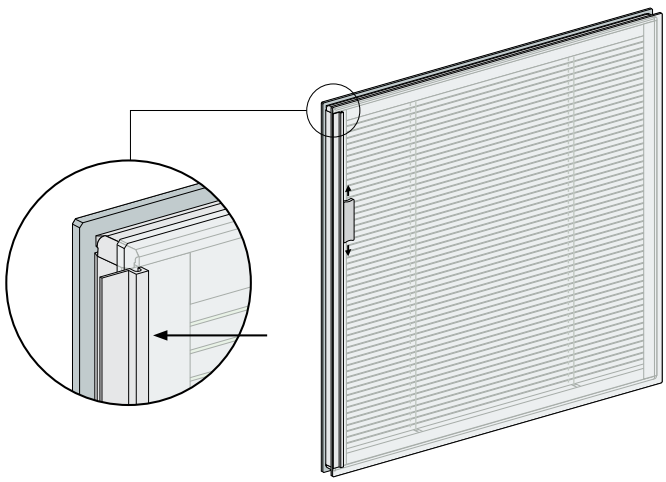
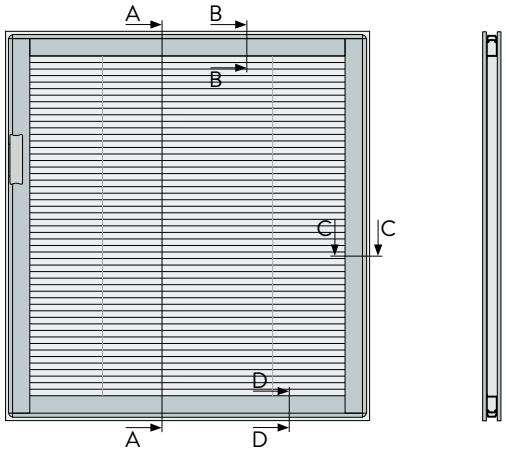


MAGNET GUIDE



DETAILED DIMENSIONS in mm

SECTION A-A



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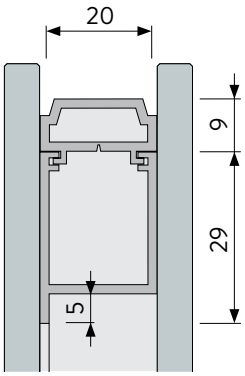

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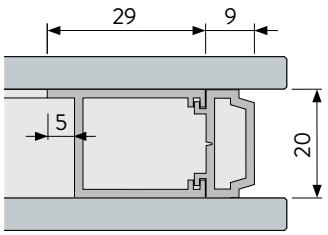

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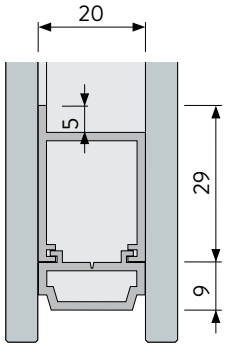
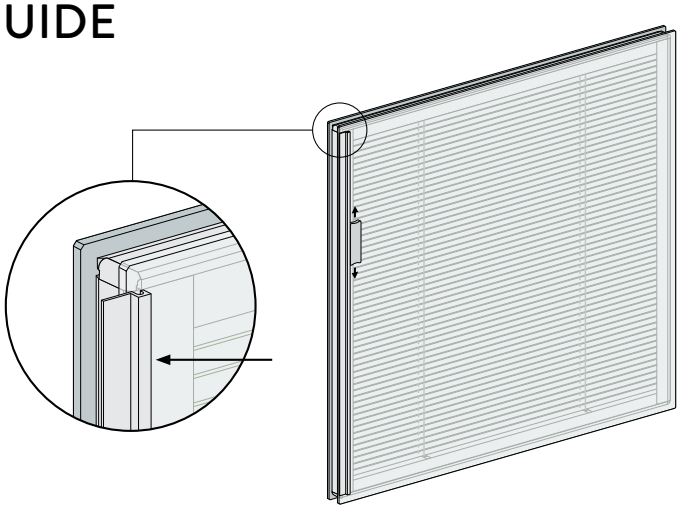


MAGNET GUIDE



LAGOON 2

Architect:
MYS ARCHITECTS

Façade:
M.S ALUMINUM

SPECS

Shading system:
VBE29 (~750 panels)

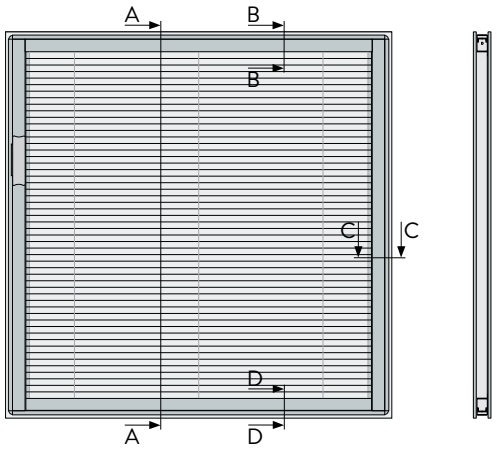
Control system:
SBC9601 solar panel set

Glass:
PPG (USA) Solarban Z50

Photography: Shai Gil

DETAILED DIMENSIONS in mm

SECTION A-A



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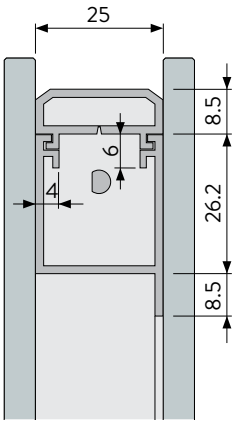
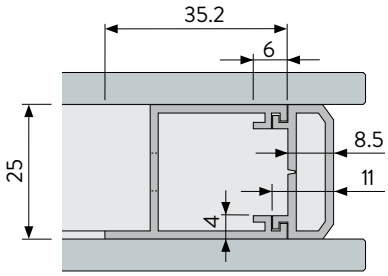
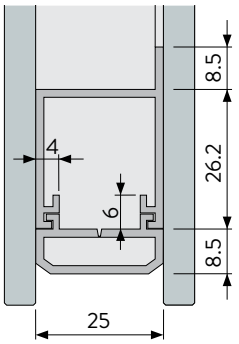


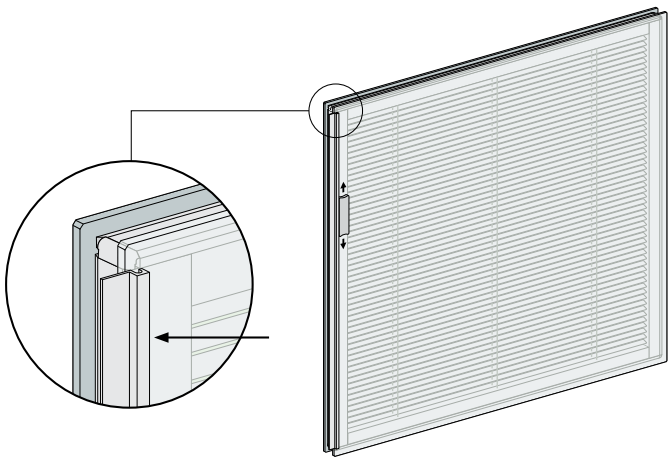
SECTION C-C



SECTION D-D



MAGNET GUIDE



Photography: Shai Gil

MIDTOWN TLV

Architect:
MOSHE ZUR ARCHITECT &
TOWN PLANNERS

Façade:
M.S ALUMINUM

SPECS

Shading system:
VBE29 (~4000 panels)

Control system:
DM9040 W\ integral controller

Glass:
Guardian SN70\37

VBK

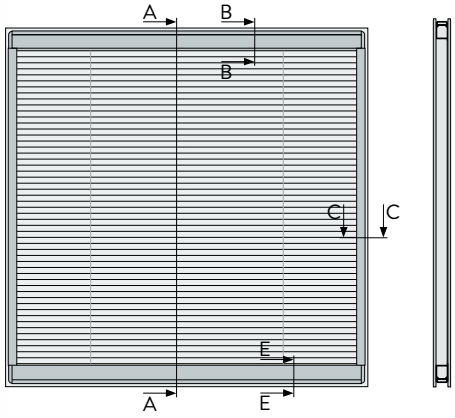
The **VBK** is a manually operated tilt only blind system designed to meet the special demands of hospitals office buildings and other types of public buildings.

The blind angle is adjusted by an elegant turning knob located on the side or bottom profile.

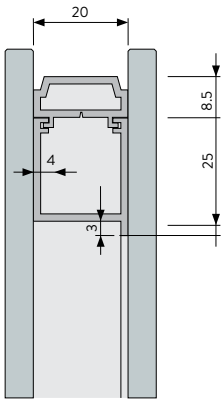
VBK is available in 20 and 25 mm air cavities.

DETAILED DIMENSIONS in mm

SECTION A-A



SECTION B-B



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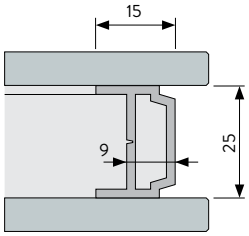
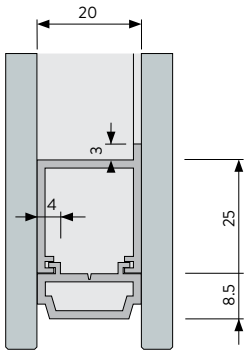
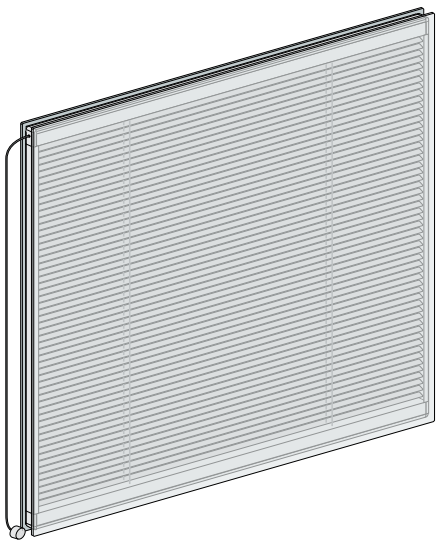


SECTION D-D

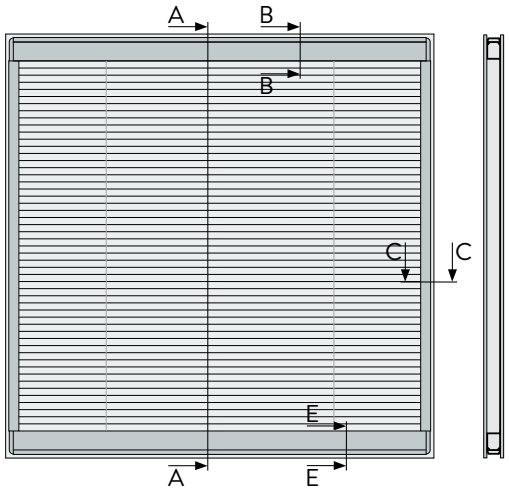


MAGNET GUIDE

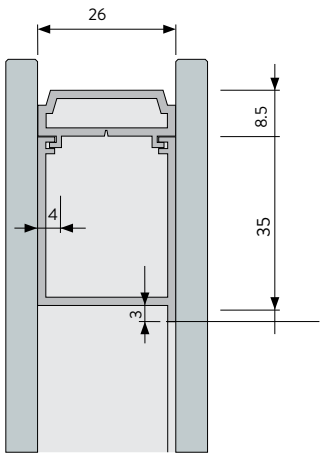


DETAILED DIMENSIONS in mm

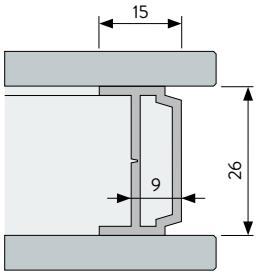
SECTION A-A



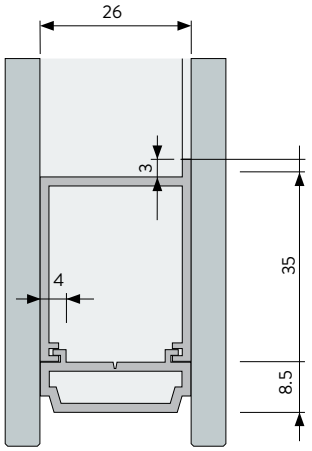
SECTION B-B

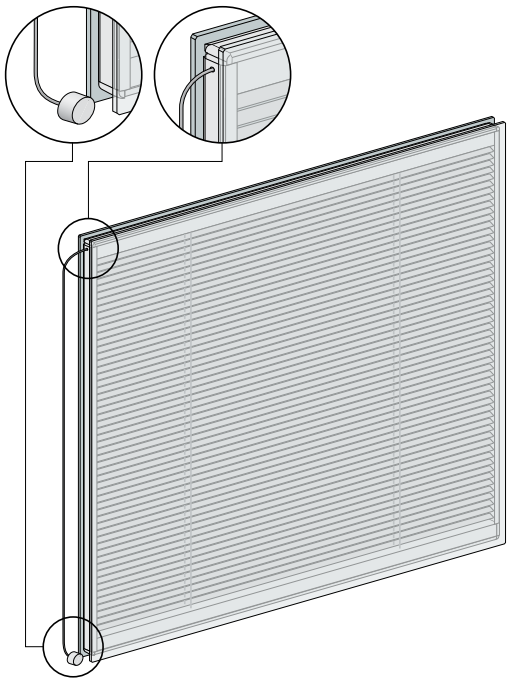


SECTION C-C



SECTION D-D





MAGNET GUIDE

VBE & VBE

Photography: Amit Geron

Simple Reliable Elegant.

The **VBE** and **DBE** series are high precision systems designed for projects. They are operated by a 24 V DC encoder motor designed by Orshade, specifically for use inside double and triple glazed units. The **VBE\DBE** systems are feasible in sizes of up to 12 M2 **(VBE)** and 9 M2 **(DBE)** to meet current demand by architects for extra large glass sizes .

Through a cutting edge electronic controller type MCU9201\9206\7201, designed by Orshade, even hundreds of blinds can work in synchronization by a single push of a button. The **MCU** allows operation by wide range of command devices - a simple switch, **RF\IR** remote controls, home-automation\BMS systems and even sun-sensors.

The **VBE\DBE** systems fit perfectly in a wide variety of applications - Sliding doors, bifold doors, dry-kip, kip, curtain wall systems and many more.

Photography: Amit Geron

WHITE CITY RESIDENCE

Architect:
YASHAR ARCHITECTS

Façade:
ALUMAYER

SPECS

Shading system:
VBE29 (~4300 panels)

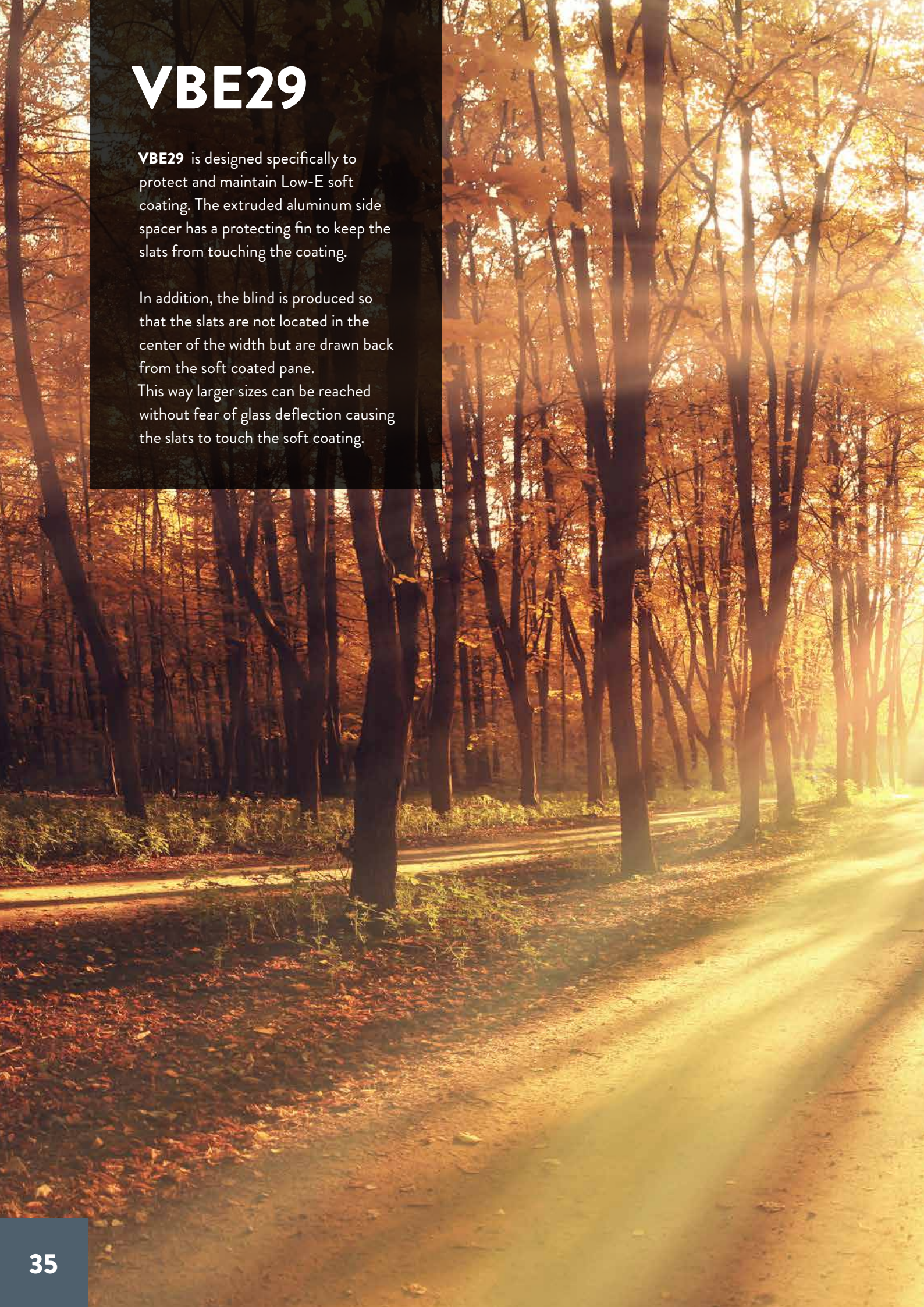
Control system:
MCU9206 controllers &
KNX9190 gateway for home
automation system

Glass:
Guardian Sunguard 68

VBE29

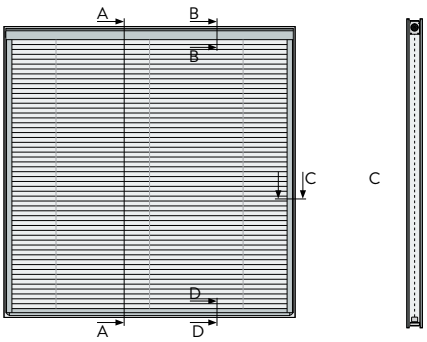
VBE29 is designed specifically to protect and maintain Low-E soft coating. The extruded aluminum side spacer has a protecting fin to keep the slats from touching the coating.

In addition, the blind is produced so that the slats are not located in the center of the width but are drawn back from the soft coated pane.
This way larger sizes can be reached without fear of glass deflection causing the slats to touch the soft coating.

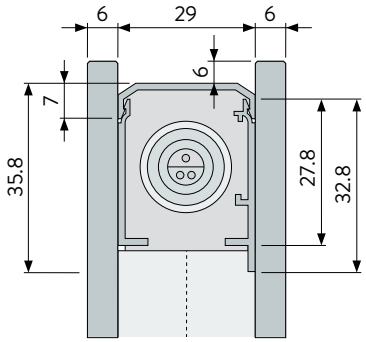


DETAILED DIMENSIONS in mm

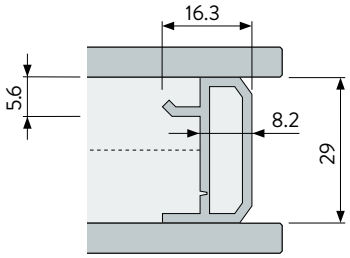
SECTION A-A



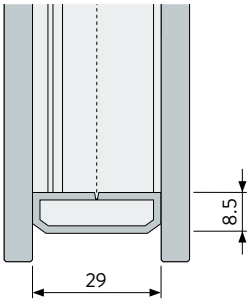
SECTION B-B



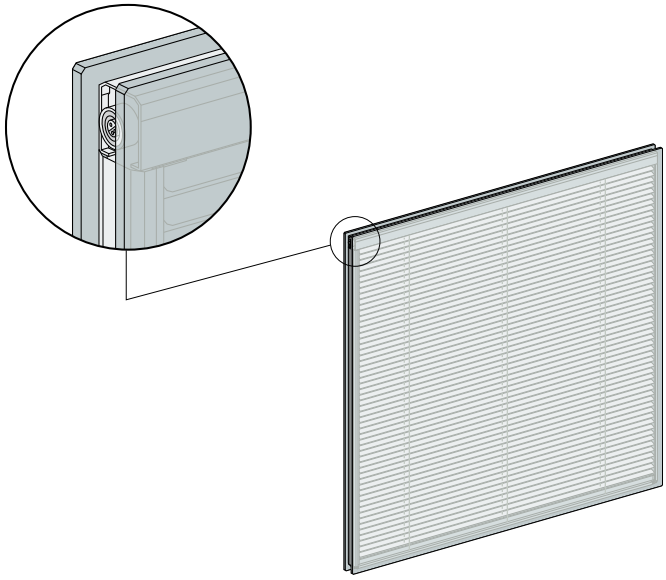
SECTION C-C



SECTION D-D



POWER AND COMMAND SOCKET

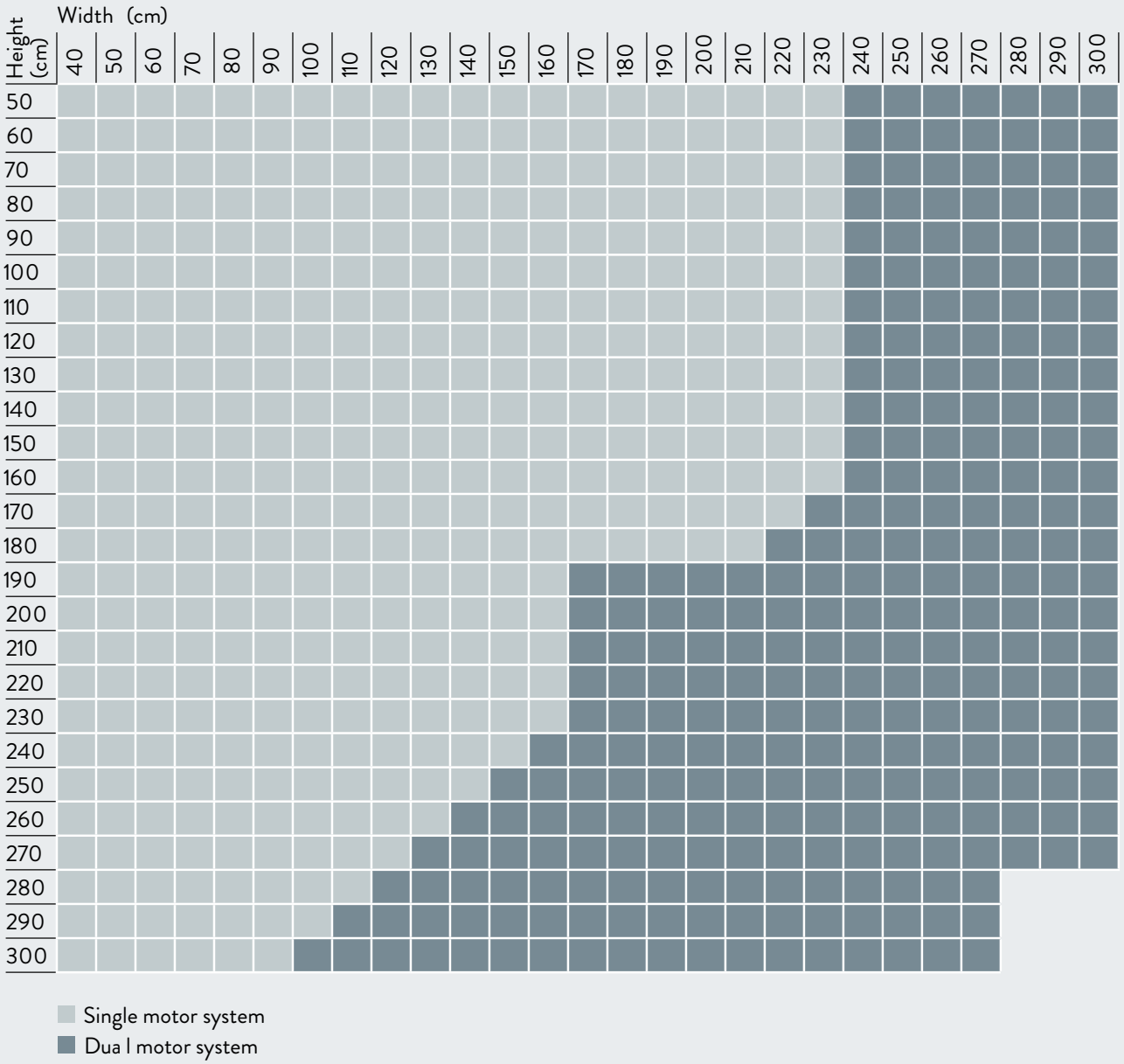


FEASIBILITY

To select the unit configuration compatible with the opening dimensions, consult the table below.

NOTE

Units wider or higher than 300 cm are feasible - Require confirmation from Orshade.



W PRIME

Architect:
YASHAR ARCHITECTS

Façade:
M.S ALUMINUM

SPECS

Shading system:
VBE29 (~3000 panels)

Control system:
MCU9201 controllers with switch operation

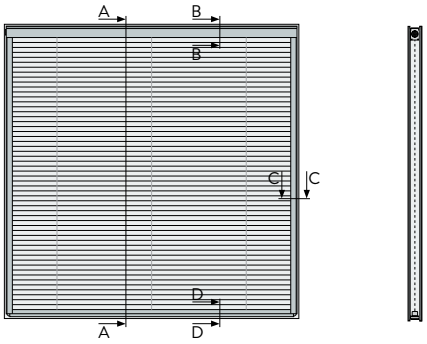
Photography: Shai Gil

VENICE
VBE27

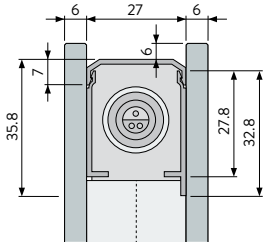
The **VBE27** has a thinner air cavity. This makes it compatible with facade, window and door systems that have a thinner glazing cavity. Alternativly, it allows to increase the glass width on the inner and outer panes.

DETAILED DIMENSIONS in mm

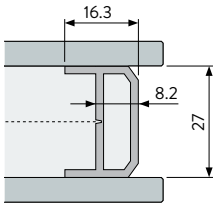
SECTION A-A



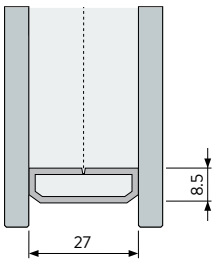
SECTION B-B



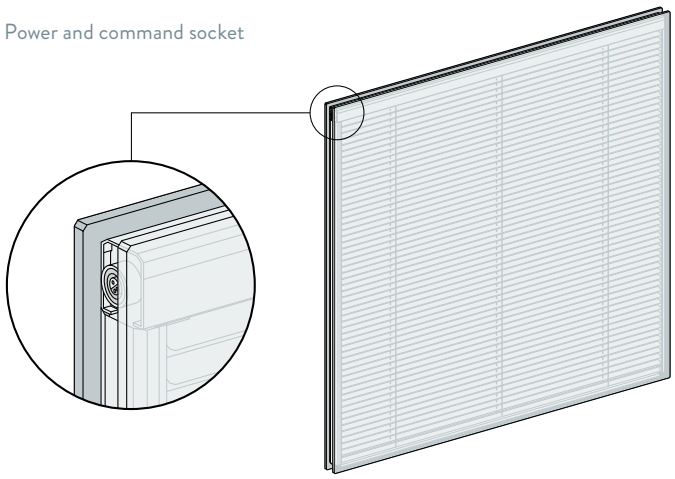
SECTION C-C



SECTION D-D



POWER AND COMMAND SOCKET



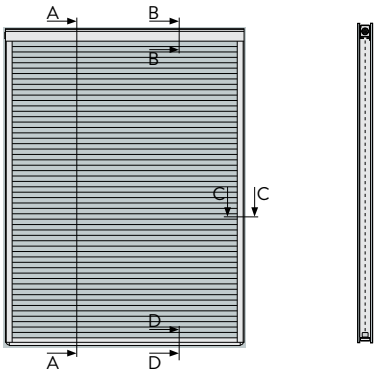
CONTROLIGHT
DBE

Orshade's DBE is an elegant and innovative solution for spaces that require complete darkening. Featuring virtually zero light transmittance, **DBE** is a double layered pleated curtain made of high quality fabric on the exterior and high-end aluminium foil on the interior.

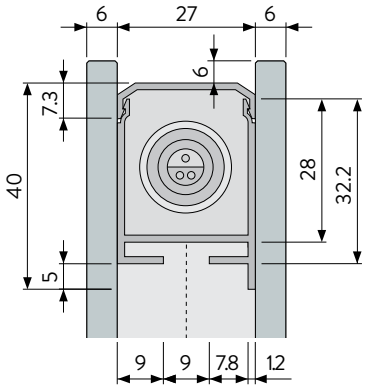
The strings that lift the **DBE** blind run between the layers of fabric, giving the curtain a clean and continuous appearance without any trace of perforation or string.

DETAILED DIMENSIONS in mm

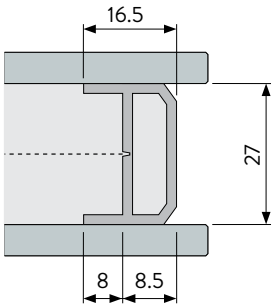
SECTION A-A



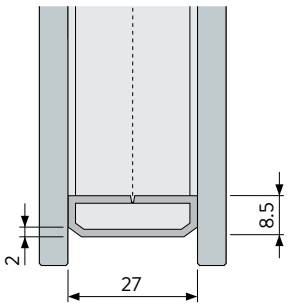
SECTION B-B



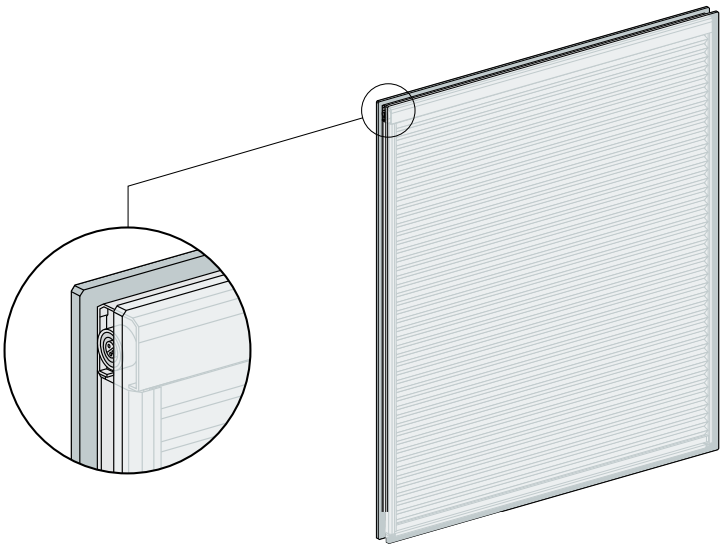
SECTION C-C



SECTION D-D



POWER AND COMMAND SOCKET

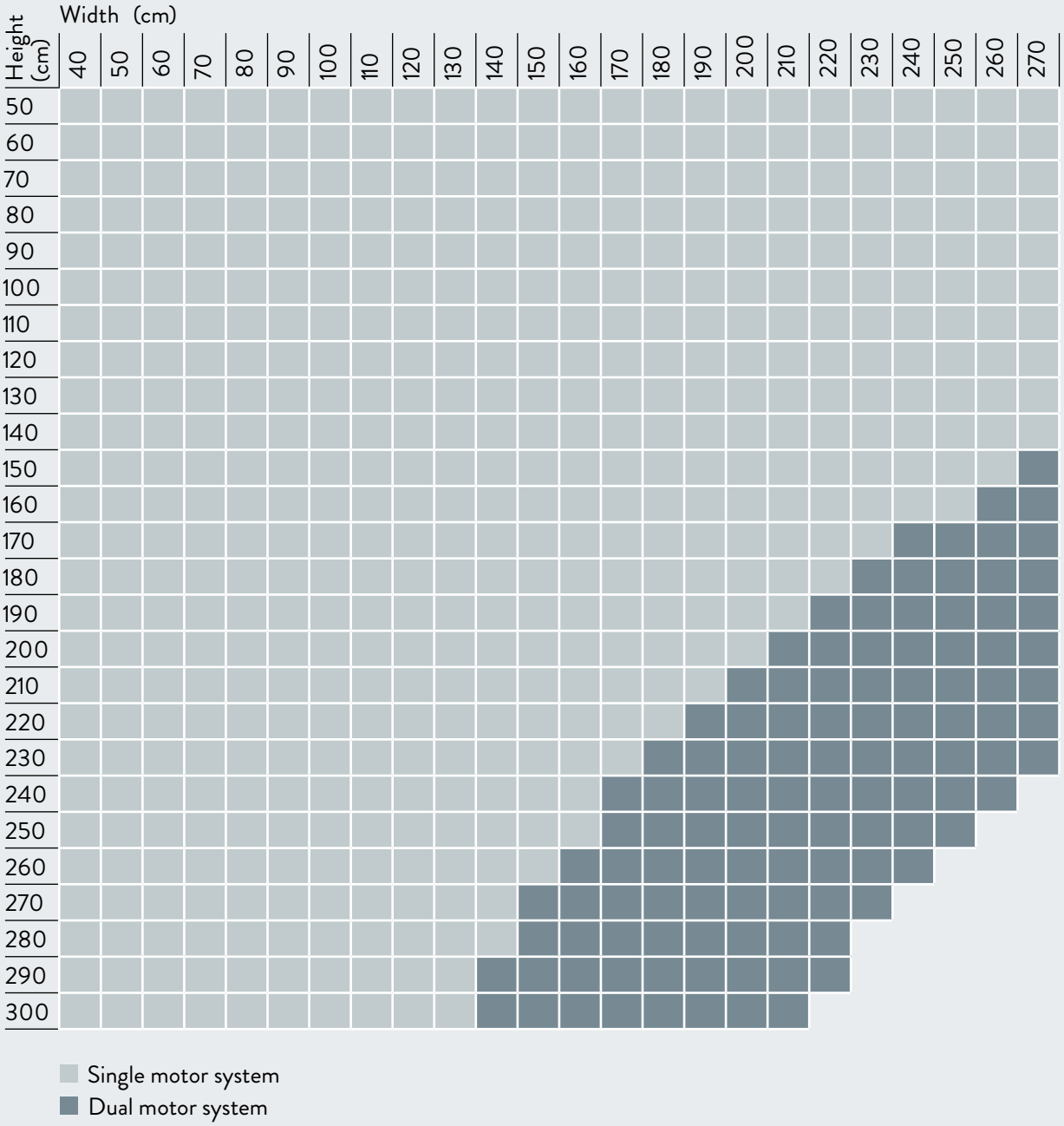


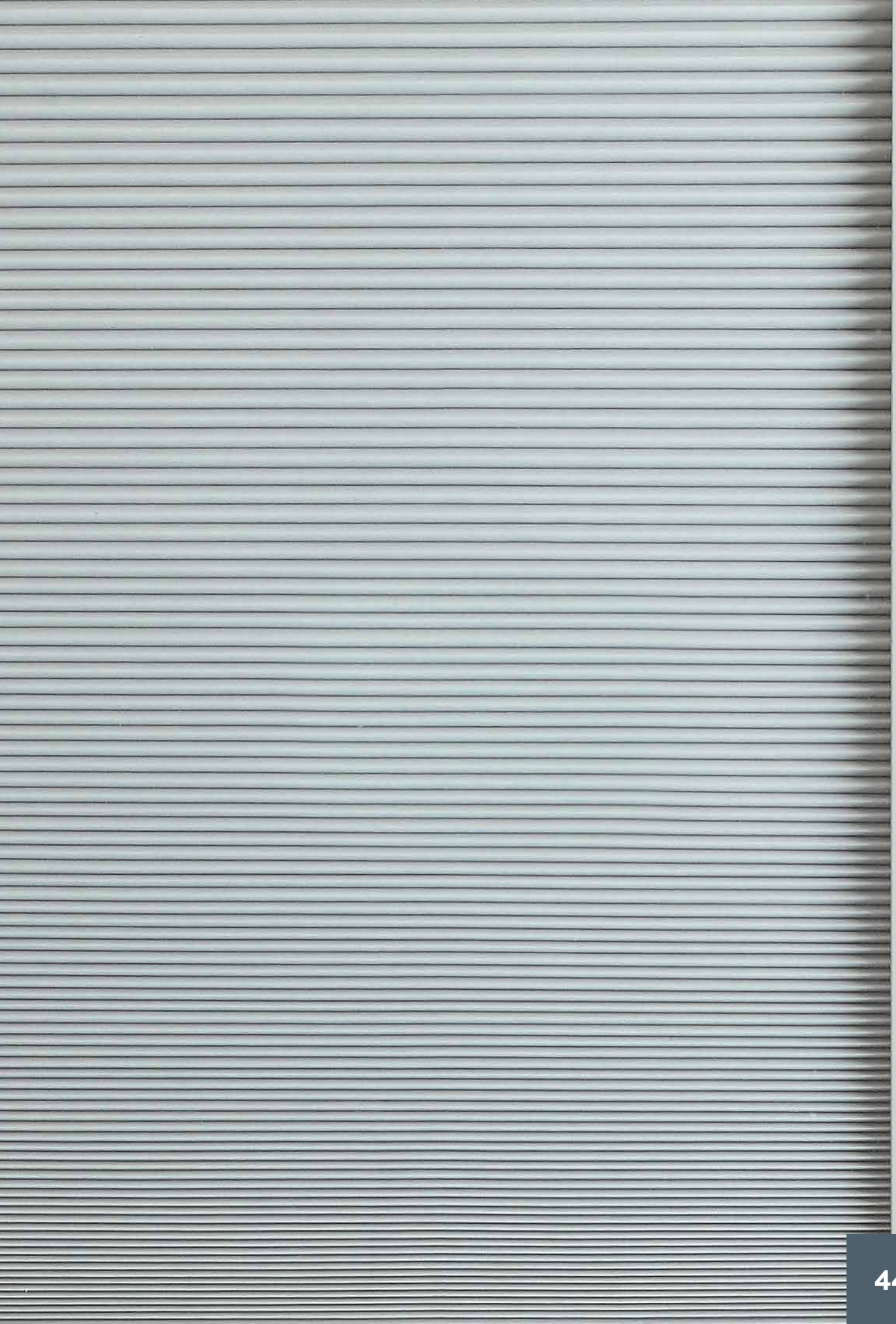
FEASIBILITY

To select the unit configuration compatible with the opening dimensions, consult the table below.

NOTE

Units wider or higher than 300 cm are feasible - Require confirmation from Orshade.





Photography: Shai Gil

UPPER WEST

Architect:
MYS ARCHITECTS

Façade:
M.S ALUMINUM

SPECS

Shading system:
VBE29 (~2200 panels)

Control system:
MCU9206 controllers &
KNX9190 gateway for home
automation system

Glass:
PPG (USA) Solarban Z50


Motors

DM9035

avaliable in VBE27 & VBE29

DESCRIPTION

The **DM9035** is a small, yet powerful 24 V DC, synchronized encoded motor.
It is designed specifically for the operation of shading systems, encapsulated in insulating glass units.
The motor is fitted with two gearboxes, spreading the load on two output shafts to ensure a long trouble-free lifetime of the complete system, and high lifting capacity.

A single **DM9035** operates bling units in sizes of up to 4 M2.

Bigger units are opearated by a unique dual motor system.

FEATURES

- Noise reduced
- Suitable for air or gaz filled units
- High accuracy positioning
- Tested for minimum 80,000 cycles
- Fully Synchronized operation of multiple blinds of varying sizes.
- Operation via pushbuttons, KNX interfaces and Remote-control systems.

CAUTION

- **DM9035** is to be controlled by electronic controllers approved by Orshade only.
- For use in IGU or indoor use only.

TECHNICAL SPECIFICATIONS

Motor	Bühler motor
Voltage nom.	24VDC
Voltage min.	16VDC
Voltage max.	25VDC
Nominal sync spd	40 rpm
Torque, stall	1,8 Nm
Current nominal	40-580mA
Current Max	coded current loop
Encoder	-20~105°C
Operating temp	EN60730-1
Standards	IP 40
Protection index	23X25X210MM
Size	230g

DM9040

avaliable in VBE27 & VBE29

DESCRIPTION

The **DM9040** Smart-motor is a small, yet powerful, 24VDC encoded motor, with an integrated electronic control unit. It is designed specifically for the operation of shading systems, encapsulated in insulating glass units.

The **DM9040** allows synchronized Tilt and lift functionality of multiple blinds, as well as fully electronic end positioning of the blind, ensuring superior blind lifetime. The motor is fitted with two gearboxes, spreading the load on two output shafts, ensuring a long lifetime of the complete system, and high lifting capacity.

A single **DM9040** operates blind units in sizes of up to 4 M2.

FEATURES

- Noise reduced
- Suitable for air or gas filled insulating glass units.
- High accuracy positioning
- Tested for minimum 80,000 cycles

CAUTION

- Follow instructions carefully.
- For use inside and IGU or indoors only.

TECHNICAL SPECIFICATIONS

Motor	Bühler motor
Voltage nom.	24VDC +/- 5%
Nominal sync spd	40 rpm
Torque, stall	1,8 Nm
Current nominald	40-580mA
Current Max peak	800mA
Encoder	Magnetic
Operating temp	-20~105°C
Standards	EN60730-1
Protection index	IP 40
Size	23X25X210MM
Weight	230 g

Controllers

MCU9201

avaliable in VBE27 & VBE29

DESCRIPTION

The **MCU9201** blind controller is designed to meet the specific needs of blind systems encapsulated inside insulating glass units. The **MCU9201** is perfectly compatible with all types of Orshade motors. the new active encoder systems allow a perfect synchronization between blinds, whether they are the same or of different sizes.

The **9201** is programmed to ensure blind performance over time and protect it from mechanical and electrical damage. Maximum protection is achieved with features such as Soft-stop with reverse, down-on-boot and individual power and positioning for each blind. The controller also measures the temperature inside the IGU, and allows operation cut off in extremely cold climate, where vacuum is more likely to occur.
The controllers are also set up to protect the motor from short circuit.

CAUTION

- Only for use with compatible motor/encoders
- Only for indoor use.

TECHNICAL SPECIFICATIONS

Type number	MCU-9201P
Voltage nom.	24VDC
Load nominal	16VDC
No of channels	1
No of Groups pr. ch.	4

CONNECTIONS

J1:

7	RS48 data A/+
6	RS485 data B/-
5	Input grp. DOWN
4	Input grp. UP
3	GND/Scrn
2	GND
1	+24 VDC

J2:

1	Motor +
2	Encoder
3	Motor -

MCU9206

avaliable in VBE27 & VBE29

DESCRIPTION

The **MCU9206** blind controller is designed to meet the specific needs of blind systems encapsulated inside insulating glass units. The controller contains 6 channel for the operation of 6 individual blinds.
The **MCU9206** is perfectly compatible with all types of Orshade motors. the new active encoder systems allow a perfect synchronization between blinds, whether they are the same or of different sizes.

The **9206** is programmed to ensure blind performance over time and protect it from mechanical and electrical damage. Maximum protection is achieved with features such as Soft-stop with reverse, down-on-boot and individual power and positioning for each blind. The controller also measures the temperature inside the IGU, and allows operation cut off in extremely cold climate, where vacuum is more likely to occur.
The controllers are also set up to protect the motor from short circuit.

FEATURES

- Pushbuttons for height programming directly from the controller.
- DIN rail compatible
- Short circuit protection
- Mechanical wear protection
- Temperature limit - optional
- Perfect synchronization of hundreds of blinds

TECHNICAL SPECIFICATIONS

Type number	MCU-9206H
Voltage nom.	24VDC
Consumption	<10 A
No of channels	1
No of Groups pr. ch.	4
Config Tool	BC9305

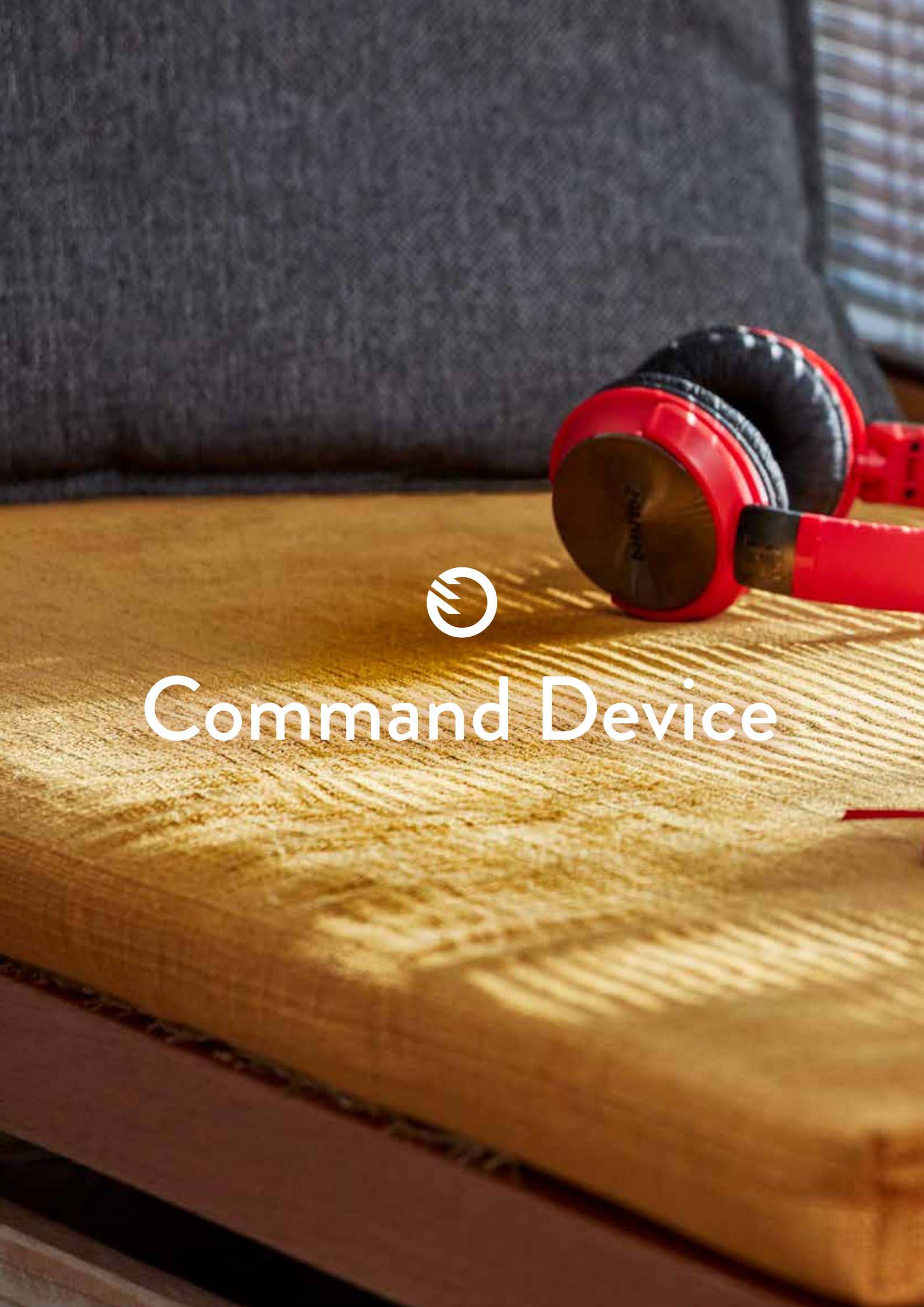
CONNECTIONS

J1:

7	RS48 data A/+
6	RS485 data B/-
5	Input grp. DOWN
4	Input grp. UP
3	GND/Scrn
2	GND
1	+24 VDC

J2:

1	Motor -
2	Motor +
3	Encoder
4-18	Sequence is repeated for each of the 6 ch.



Command Device

RF9170

Avaliable in ALL PRODUCTS

DESCRIPTION

The Orshade remote control type **RFR9170** operates up to 30 individual or groups of blinds/pleated curtains. The number of units in each group is unlimited.

The names of the different groups can be customized and shown in clear text on the handheld unit's OLED display, along with the group's number. Each group or individual blinds can be lifted, lowered or tilted separately.

One receiver can have up to 16 remote controls paired to it. An unlimited number of receivers can be in a system.

The handheld remote control is powered by a rechargeable battery, which is easily charged by a simple USB charger. When fully charged, the remote will typically operate for more than a year, with normal use.

FEATURES

- 30 channel remote
- Name of groups in Clear text
- High visibility OLED display
- Rechargeable battery - up tp 1 year normal use on a fully charged battery

TECHNICAL SPECIFICATIONS

Battery	3,7V LiPo 350mAh
Operates on	ISM 868,5MHz/ FCC915MHz high band, 5m
Sensitivity	–104dbm
Range	~30m inside building, depending on wall material and buildup
Standards	FCC/ETSI TR 102 649-2 v1.2.1 (2010-06), Part 2 SRD, Short Range Device

SBC 9601

Avaliable in ALL PRODUCTS

DESCRIPTION

The Orshade **SBC9601** is an advanced solar powered venetian blind system, featuring fully synchronized operation in predefined groups of blinds.
The system consists of a solar panel located on the external profile and an elegant pushbutton controller.

The battery can perform up to 200+ operations under conditions of complete blackout without having to charge. Number of operations and the period the battery sustains without charging depends on blind size, configuration of the unit and the number of operations per day.

The system features RF communication which operates several blinds as synchronized groups. The units can be configured to automatically go down and close, whenever the sun reaches a predefined intensity. The controller features slow speed for accurate tilting, and high speed for raising and lowering. Both functions are operated simply from two pushbuttons on the front.

FEATURES

- Simple installation - No hardwiring required
- Fully solar powered operation
- Automatic lowering when sun intensity reaches a defined level
- Fully synchronized operation of blind groups
- High power rechargeable battery
- Compatible with sliding doors
- Up to 2 weeks of normal use with no sun (RF enabled) or up to 200+ operations*
- Up to 3 month of normal use with no sun (RF disabled) or up to 200+ operations*
- Fully charged after 1 day of sun

* Influenced by blind size, configuration of unit and operations per day.

TECHNICAL SPECIFICATIONS

Dimensions	Solar panel: 64 x 154 mm
	Controller (including batteries): W48 x H130 x D17 mm
Maximum blind size	4.00 m^2
Sensitivity	-104 dbm
Range	Up to 30 m inside building (depending on wall material and buildup)
Standards	FCC/ETSI TR 102 649-2 v1.2.1 (2010-06), Part 2 SRD, Short Range Device

ORSHADE

See the light

CASIRER.COM