DBE BU

Orshade's **DBE BU** is an elegant and innovative solution for spaces that require complete darkening.
Featuring virtually zero light transmittance, **DBE BU** 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 BU** blind run between the layers of fabric, giving the curtain a clean and continuous appearance without any trace of perforation or string.

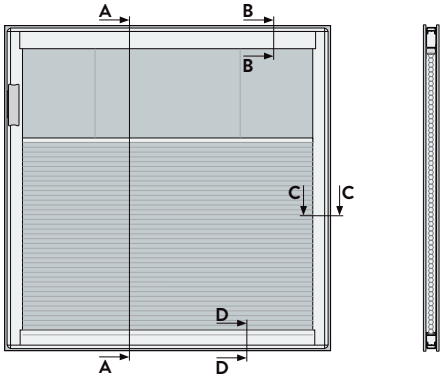
DBE BU and privacy – bottom-up

For the first time ever, Orshade presents a brand new type of thinking with the new Bottom-up **DBE BU**. Unfolding from the bottom of the window upwards, this functionality enables a clear view of the surrounding panorama of the home or workspace while maintaining the privacy of the inhabitants.

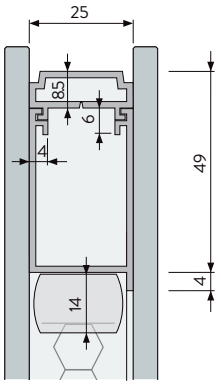
DETAILED DIMENSIONS in mm

DBE BU

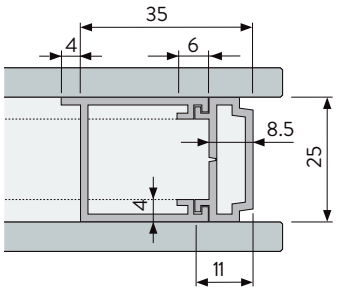
SECTION A-A



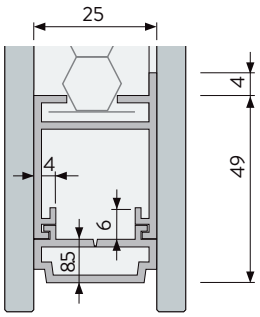
SECTION B-B



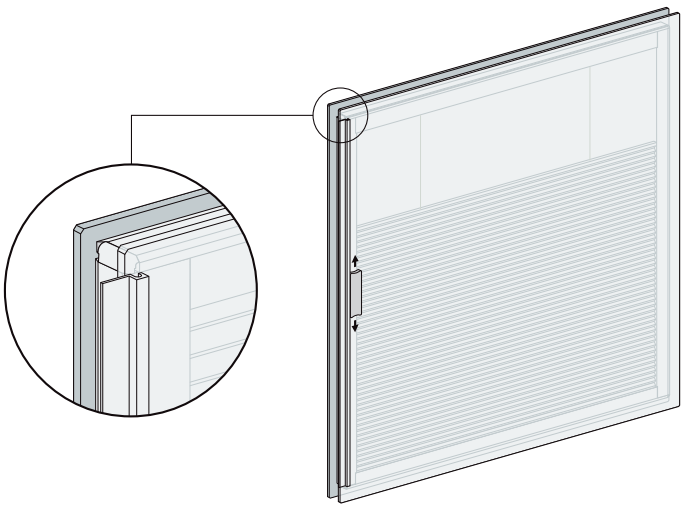
SECTION C-C



SECTION D-D



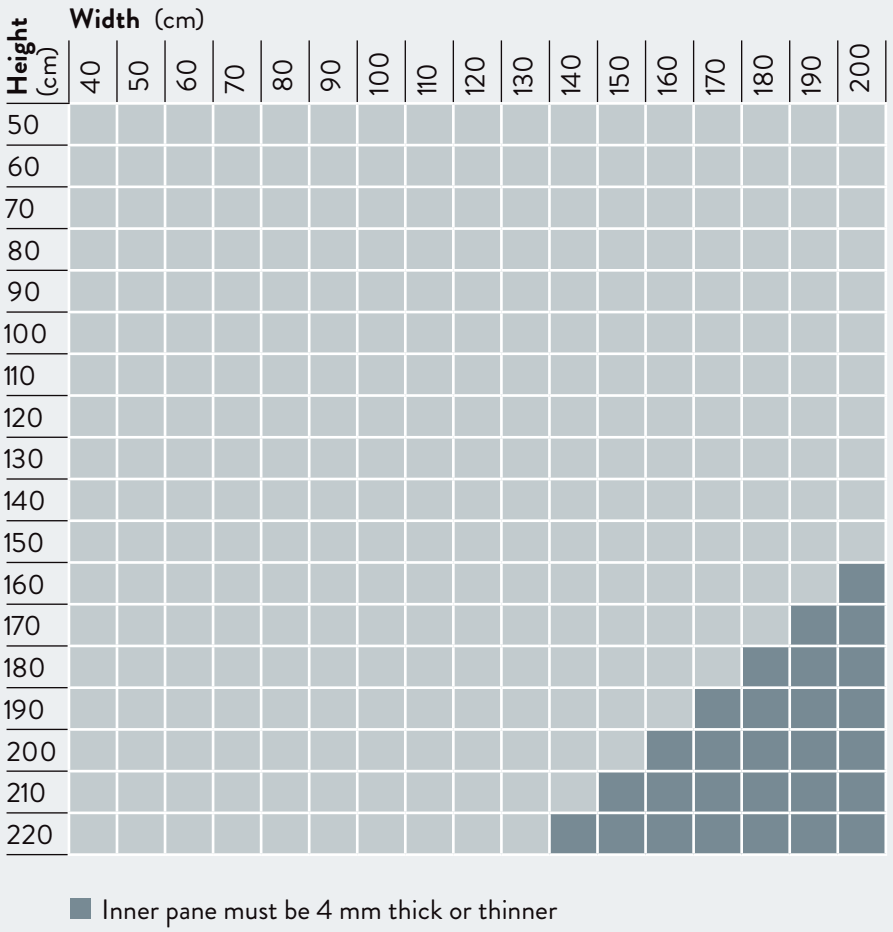
MAGNET GUIDE



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.




Motors

DM9035

avaliable in DBE BU

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

Controllers

MCU9201

avaliable in DBE BU

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 DBE BU

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.

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