TechnoCeilingFold

Motorized Horizontal Soft Ceiling, providing additional Space at a Touch of a Button

By TechnoShade

TechnoShade®
Natural Light Management ™

Smart Window Solutions for Sustainable Architecture

TechnoCeilingFold

General Description:

Designed to provide additional covered space, the "TechnoCeilingFold" is a Motorized Folding Horizontal Shading System made of high-end Water Proof Membrane mounted on aluminum middle bars pulled by geared aluminum lateral guide assembly.

In "Closed Position" the membrane is stretched and sloped allowing rain water to be directed toward a "Rain Gutter" situated at the lower end, assisted by "Rain Catchers" situated at the sides of the system and preventing rain water leakage to the covered area. TechnoCeilingFold protects the covered area from sun, rain and wind.

The TechnoCeilingFold is driven by a Tubular Motor located at the upper edge and controlled by a variety of control systems from TechnoShade but preferably automatically overridden by a wind sensor. Concerning resistance against wind, the system is classified as "Class 3", equivalent to "Level 6" in Beaufort scale ranging from 39 to 49 km/h.

TechnoCeilingFold can be optionally equipped with built-in LED lights to illuminate the space.

The TechnoCeilingFold provides three optional types that fit a multitude of space scenarios.

Type 1: TechnoCeilingFold-CQ

This type requires a rigid structure that should be designed in accordance with the requirement of our TechnoCeilingFold-CQ.
The main advantage of this type is the relatively big area it is able to cover.

The maximum area it can cover is:
Max. Area: 130 sqm
Max. Width: 13 m
Max. Projection: 10 m

TechnoCeilingFold-CQ with TechnoShield installed on the vertical facade

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Type 2: TechnoCeilingFold-Z

The main advantage of this type is that it does not require a rigid structure, but rather a wall/ceiling from one side.

The maximum area it can cover is:
Max. Area: 78 sqm
Max. Width: 13 m
Max. Projection: 6 m

Type 3: TechnoCeilingFold-S

The main advantage of this type is its ability to stand alone as it is designed with 4 vertical posts and a leveled horizontal structure which hides the sloped membrane; thus making it easier to install on the vertical façades either curtain glass or zippered roll-up shades "TechnoShield".

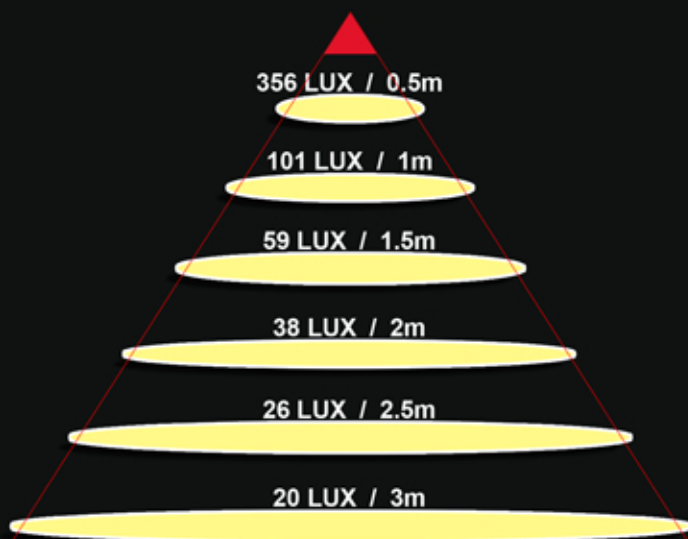The maximum area it can cover is:
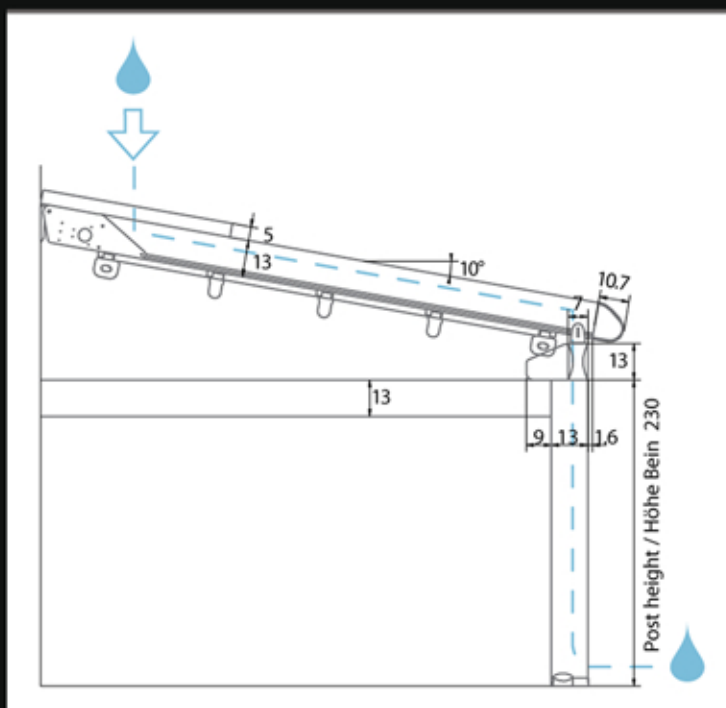Max. Area: 25 sqm
Max. Width: 5 m
Max. Projection: 5 m

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Optional built-in LED lighting:

356 LUX / 0.5m

101 LUX / 1m

59 LUX / 1.5m

38 LUX / 2m

26 LUX / 2.5m

20 LUX / 3m

LED lighting inserted in the horizontal aluminum profiles is a very practical way to illuminate your interior space. Above is a chart indicating the intensity and the coverage area of lighting according to the ceiling height.

Water Drainage Diagram:

5

13
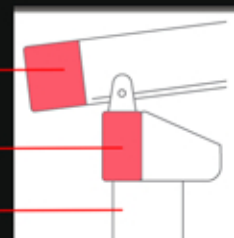
10°

10.7

13

13

9 13 1.6

Post height / Höhe Bein 230

The front gutters are located on the lower edge of the system and the vertical drainage pipes are located inside the vertical columns to allow the evacuation of rain water off the TechnoCeilingFold in a discrete way.

The structure must have a 15% slope in order to guarantee the rainwater flow.

Lateral Guide

Rain Gutter

Vertical Post

An Overview:

Through an overall approach to Sustainable Development, combining "bioclimatic principles" with both comfort to the occupant and refined Architecture, TechnoShade is a leading company involved in Sustainable Architecture through providing a variety of Smart Window Solutions. Our Automated Roller Shades, our Smart Roller Shutters, our Aesthetic Louvers and our external illuminated Façade Canopies are all "energy-efficient" Architectural elements dedicated to form a "dynamic façade" and contribute in optimizing the energy performance of a building. Our external Convertible Umbrellas and Pergola Shadings are dedicated to provide additional living space and comfort.

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