



Product Specifications for the Uhlmann StrongWind Umbrellas

The Frame

Like their predecessors (the Type T umbrellas), the StrongWind Umbrellas are also manufactured with 8 exceptionally strong roof supporting arms. The mast size of the StrongWind was increased to 110mm diameter with wall thickness of 5mm, and the arms were also reinforced. The added strength allows the StrongWind to resist wind up to 60 miles (102 kilometers) per hour, and to stand up to the elements all year around.

Standard powder coating is RAL 9016 Traffic White. Optional colors include black, gray, silver and bronze. Lifelike wood and marble finishes are also available.



Outside Dimensions:

Round from 3.0 m to 6.0 m diameter
or 9' 10" to 19' 8" diameter

Square from 3.0 x 3.0 to 6.0 x 6.0 meter
or 9' 10" x 9' 10" to 19' 8" x 19' 8"

Rectangular from 4.0 x 3.0 and 6.0 x 4.0 meter
or 13' 1" x 9' 10" to 19' 8" x 13' 1"

Mast Diameter: 80 mm or 110 mm
(approx. 3 1/8 or 4 4/12 inches)

Material Thickness: 4 mm or 5 mm
(approx. 5/32 or 2/10 inches)

Arm Dimensions: 45x25x2mm or 56x31x2.5 mm
(approx. 1 3/4 x 1.0 x 1/12 or
2 2/10 x 1 7/32 x 1/10 ")

The Mechanics

Telescopic design, with cranked level operation and fixed hub. Roof arms are individually attached to the telescope plate and the supporting arms are individually attached to the mast plate. The mast plate is welded to the mast. Maintenance free gearbox built into the mast and rotates the spindle lift. High density plastic bearing guided to prevent rotation and twisting.

The Canopy

Dolan (or Sunbrella) - a strong awning and marine grade material
100% solution dyed Sunacrylic fabric, 290 g/m² weight, 90% UV filter, Cleargard treated

22 standard and 50 plus specialty colors

Airtex - Acrylic/Teflon on top side - a lighter weight material

195 g/m² weight, 80% UV filter, temperature resistance -20C° to 70C°

28 standard colors

Optional Accessories

- **Rain gutters** for continuous weather protection or to connect umbrellas to a building - can be applied to umbrellas with or without valance
- Easy to attach and remove **side panels** with optional transparent windows (up to 54" tall) and roll-up door – are also available with skirting - can be applied to umbrellas with or without valance
- **Screen-Printing** on roof sections or valances available up to up to 3.45m x 1.4m size and up to 6 colors
- **Protective covers** matched to umbrella size to shield canopy from dirt during installation and storing
- **Heaters** – energy efficient Tansun Rio 015 230V 1500W 6.5A infrared heaters with extreme shock resistant heater elements with 5000 hrs service life - four per umbrella - mounted on fold down arms, using curly cables - must be ordered before the frame is assembled
- **Light Fixtures** - OSRAM Dulux Brik® EL 9W or OSRAM Lumilux Brik® EL 18W - complete with energy efficient, long lasting lamps – four per umbrella - mounted on the mast -- must be ordered before the frame is assembled

Warning: Umbrellas cannot be retro-fitted for heaters and or lights after the frame is assembled. Pre-wiring is recommended at the time of order.



Installations

Permanent Installation	In-Ground Sleeve		Base Plate Installation			
	Concrete Base Size		Base Plate Size		Concrete Base Size	
	cm	inches	cm	inches	cm	inches
Up to 16.0 m² (172 ft²)	80x80x60	32x32x24	30x30	12x12	160x160x15	64x64x6
From 16.0 - 20.0 m² (173 ft² - 215ft²)	80x80x80	32x32x32	50x50	20x20	160x160x20	64x64x8
From 20.0 - 25.0 m² (216 ft² - 270ft²)	100x100x80	40x40x32	50x50	20x20	200x200x20	80x80x8
Over 25.0 m² (270ft²)	100x100x100	40x40x40	50x50	20x20	160x160x25	80x80x10

In addition to the standard in-ground and base-plate installation, we also offer custom solutions for permanent installation on roof tops and terraces, and stair step solution to bring umbrellas installed on different levels to the same height.

Portable Installation

StrongWind umbrellas are not recommended for portable installation, although portable bases can be used under special circumstances.