



Product Specifications for the Uhlmann Type TL Umbrellas

The Frame

The Type TL Umbrellas are manufactured with 10 or 12 exceptionally strong roof supporting arms depending on the shape of the umbrella. The longer roofing arms are reinforced inside for increased rigidity. Joints are made of high quality steel. Standard powder coating is RAL 9016 Traffic White. Optional colors include black, gray, silver and bronze, wood and marble.

The Type TL Umbrellas are ideal to shade medium to large areas from 25 to 56 square meters.



Outside Dimensions:

Round from 6.5 m to 8 m diameter
or 21' 4" to 26' 3" diameter

Square from 5.5 x 5.5 to 6.0 x 6.0 meter
or 18' 1" x 18' 1" to 19' 8" x 19' 8"

Rectangular from 5.5 x 4.5 to 7.0 x 5.0 meter
or 18' 1" x 14' 9" to 23' 0" x 16' 5"

Mast Diameter: 106 mm
(approx. 4 6/32 inches)

Material Thickness: 3mm
(approx. 1/8 inches)

Arm Dimensions: 45x25x2mm
(approx. 1 3/4 x 1.0 x 1/12 inches)

The Mechanics

Telescopic design, with cranked level operation. The Type TL umbrellas operate with a slider in addition to the telescopic mechanism. The roofing arms are mounted individually to the telescope plate. The supporting arms are also individually bolted to the slider plate. The slider is connected to the telescope with two stainless steel wires, enabling easy operation. Maintenance free gearbox built into the mast and it self-lubricates.

The Canopy

Dolan (or Sunbrella) - a strong awning and marine grade material

100% solution dyed Sunacrylic fabric, 290 g/m² weight, 90% UV filter, Cleangard 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 – wiring must be installed at the time of assembly
- **Light Fixtures** - OSRAM Dulux Brik® EL 9W or OSRAM Lumilux Brik® EL 18W - complete with energy efficient, long lasting lamps – four per umbrella - mounted side arms – wiring must be installed at the time of assembly

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 23.0 m² (250 ft²)	60x60x60	24x24x24	30x30	12x12	150x150x10	60x60x4
From 23.5 - 48.0 m² (251 ft² - 520ft²)	80x80x60	32x32x24	50x50	20x20	160x160x15	62x62x6
Over 48.0 m² (251 ft²)	100x100x60	40x40x24	50x50	20x20	165x165x20	64x64x8

In addition to the standard in-ground sleeve 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

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