



*»JUMBRELLA CXL«*

25 - 37 weather-resistant square metres.  
Designed for excellence, engineered for performance.

**BAHAMA<sup>®</sup>**  
**JUMBRELLA CXL**



# MADE IN GERMANY

## Design and Functional Criteria • Materials Surface Finishes • Membrane Fabric and Editions

### Opening, tensioning & closing function:

»BAHAMA®-Servo-Mechanics« (int'l pat. registd.): Mass centre-balanced, auto-reversing telescoping system with 4-catch strength-reducing device and dual lockable latch.

### Structural alu members typical of CXL:

2.5-fold telescoping chambered-extrusion pole, exterior diameter 100 mm, wall thickness 3 mm.

Retracting & extending inner pole □ 50/50/3 mm.

- 12 carrier arms & compressional stretchers with each of the square CXL models, namely:
  - 4 diagonal arms & stretchers in the *MAGNUM* edition,
  - 8 inter-arms & stretchers in the diagonal *NNK* edition
- 12 carrier arms & compressional stretchers, all of them in the *MAGNUM* edition with the Ø 7.00m CXL model
- 4 articulated auto-reversing compressional members located in the diagonal axes of any CXL model (parts of the BAHAMA® »Servo-Assisted Unfolding« system)
- 2 tension latches ea. with auto-engaging spring clip in V4A st.-st. alloy; latches forming part of the BAHAMA® »Servo-Assisted Tensioning« system: int'l pat. reg.).

### Frame surface finish:

Modular-design alu members & components are PES powder-coated and baked at ≈ 200° C in standard RAL 9006/"aluminium-white", actually a light grey métallisé (or, at choice, in RAL 9016/white). This finish is durably resistant to salt water. Non-coated components & functional armatures such as tension rods, articulation axles, assembly screws, etc. are in V2A stainless steel – exception: spring clips which are in spec. V4A st.-st. alloy.



### Membrane fabric – structurally relevant:

»betex®05« – acrylate-coated high-tech polyester fabric in 22 BAHAMA® standard plain col. shades (see col. swatch card):

*Any and all values indicated hereunder next were obtained by testing to the German DIN standards applicable respectively. They refer to factory-new fabric material and thus to factory-new membranes made of it.*

<b>Carrier fabric:</b>	polyester in <i>betex</i> ® texture
<b>Coating (on the upside):</b>	acrylate, digitally printable
<b>Fabric weight / coated:</b>	>200 g/m <sup>2</sup>
<b>Resistance to water pressure:</b>	>100 hPa (equivalent to 1000 mm water column)
<b>Fastness to sun light:</b>	Grade 6-8 – varying with the very colour shade ("8" = best achievable grade)
<b>Fastness to weathering:</b>	Grade 6-8 – varying with the very colour shade ("8" = best achievable grade)
<b>Tensile strength in warp/weft:</b>	>160/120 daN (5cm strip)
<b>Tear strength in warp/weft:</b>	>5/6 daN

### Exchangeable-type one-piece membrane:

- Not visible from underneath: Radially elastic, laterally caged guidance in all carrier arms; effect: well-balanced overall membrane tension stiffening structural roof sections vs. each other.
- Tension load-accumulating membrane sectors (about arm ends) are widely reinforced.
- Inwrought metal hooks are in V2A stainless steel.

### Membrane editions:

- # 60 = »contemporary«: **without** valance
- # 90 = »traditional«: **with** ≈ 35 cm display-type valance

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## Model #CXL-4150 □ 5.00 m = 25.00 m<sup>2</sup>

	Overall elevation AFGL in CLOSED configuration:	≈ 4.50 m *
	Least obstacle clearance during closing:	≈ 0.83 m *
	Erection/handling weight (nett):	≈ 159 kg (includg. installation console)
	Transport package measuring – Ø x length:	0.58 m x 4.70 m
	Shipping weight (gross):	≈ 216 kg
	"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/4.70 m</b> (forklift centre of long side)
	"Forkliftable"/transloadable shipping weight:	≈ 261 kg
	Max. allowable wind when OPEN:	(59 kts) 110 km/h **

## Model #CXL-4155 □ 5.50 m = 30.25 m<sup>2</sup>

	Overall elevation AFGL in CLOSED configuration:	≈ 4.89 m *
	Least obstacle clearance during closing:	≈ 0.85 m *
	Erection/handling weight (nett):	≈ 164 kg (includg. installation console)
	Transport package measuring – Ø x length:	0.58 m x 5.10 m
	Shipping weight (gross):	≈ 225 kg
	"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.10 m</b> (forklift centre of long side)
	"Forkliftable"/transloadable shipping weight:	≈ 270 kg
	Max. allowable wind when OPEN:	(54 kts) 100 km/h **

## Model #CXL-4160 □ 6.00 m = 36.00 m<sup>2</sup>

	Overall elevation AFGL in CLOSED configuration:	≈ 5.26 m *
	Least obstacle clearance during closing:	≈ 0.80 m *
	Erection/handling weight (nett):	≈ 177 kg (includg. installation console)
	Transport package measuring – Ø x length:	0.58 m x 5.40 m
	Shipping weight (gross):	≈ 242 kg
	"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.40 m</b> (forklift centre of long side)
	"Forkliftable"/transloadable shipping weight:	≈ 287 kg
	Max. allowable wind when OPEN:	(49 kts) 90 km/h **

## Model #CXL-4070 Ø 7.00 m = 37.00 m<sup>2</sup> (edges of canopy projected vertically)

	Overall elevation AFGL in CLOSED configuration:	≈ 5.13 m *
	Least obstacle clearance during closing:	≈ 1.40 m *
	Erection/handling weight (nett):	≈ 190 kg (includg. installation console)
	Transport package measuring – Ø x length:	0.58 m x 5.40 m
	Shipping weight (gross):	≈ 255 kg
	"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.40 m</b> (forklift centre of long side)
	"Forkliftable"/transloadable shipping weight:	≈ 300 kg
	Max. allowable wind when OPEN:	(49 kts) 90 km/h **

\* valid only for CXL structures installed permanent on one of the original CXL in-ground/concrete consoles

\*\* bound to Finished Ground Level with original CXL in-ground/concrete console cast in flush with FGL

## Footing devices for permanent in-ground installation:

Suitable only for CXL structure without any additionally built-in electric equipment:



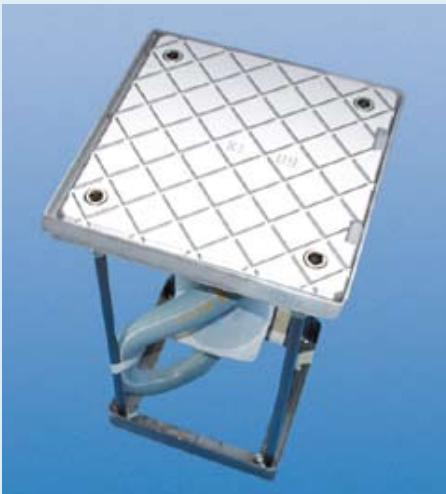
Article no.: C-033-2XL

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-Ground (concrete) Console:** Base plate steel HT-hot-dipped,  $\approx 33.8 \times 33.8 \times 1.2$  cm, with roll bearings welded onto (tipping joint for alternative erection without using a hoist). Supplied with temporary h.-d. "traffic cover" (prior erection of CXL) flush with finished ground level.
  - **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing.Nett weight:  $\approx 24.5$  kg
- **Installation Console:** Base plate  $\approx 29.7 \times 29.7 \times 1.2$  cm with fixed roll bearings; receiving upright with 4 stiffening gussets welded onto. Console in steel HT-hot-dipped, additionally PES powder-coated & baked at  $\approx 200^\circ$  C in RAL 9006/ light grey métallisé. Overall height:  $\approx 60$  cm.
  - **Coming factory-prefixed to the CXL's pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 42.0$  kg

Required for CXL structure with additionally built-in »Light« and/or »Sound« equipment:



Article no.: C-033-2XLE

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-ground (concrete) Console:** Same as above, additionally, however, base plate with central passage for cable(s), centric cable surplus containment, and prefixed conduit of  $\approx 1.5$  m in length. – **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing. Nett weight:  $\approx 28.0$  kg
- **Installation Console:** Basically same as part of # C-033-2XL, its base plate, however, with central passage for cable(s) and with a prefixed compressional O-ring sealing to prevent surface water from penetrating.
  - **Coming factory-prefixed to the CXL's pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 45.5$  kg

Required for CXL structure with additionally built-in »Heater« (+ »Light« and/or »Sound«) equipment:



Article no.: CHIRA-033-2XL

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-ground (concrete) Console:** Base plate  $50.8 \times 33.8 \times 1.2$  cm, equipped with fixed underground connector pit, solid "traffic covers" with prefixed compressional O-ring sealings, and additional prefixed conduit loop between connector pit and cable surplus containment.
  - **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing.Nett weight:  $\approx 35.0$  kg
- **Installation Console:** Same as part of # C-033-2XLE.
  - **Coming factory-prefixed to the CXL's pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 52.5$  kg

## Footing device for permanent on-ground (massive concrete) installation:

Suitable only for CXL structure without any built-in electric equipment:



**Article no.: C-034-2XL**

"Two-piece" flat base console set consisting of:

- **On-Ground Base:** Heavy-duty/weight square base plate steel HT-hot-dipped, 62.0 x 62.0 x 2.0 cm, corners truncated slightly, with 8 sunk-head drill holes (for HILTI h.-d. dowel-type anchors). Base coming without HILTI anchor bolts, drill and Allen wrench (these optional accessories available on spec. request).  
Nett weight: ≈ 60.0 kg
- **Installation Console:** Same as with # C-033-2XL, **coming factory-prefixed to the CXL's pole.**  
Nett weight: ≈ 17.5 kg

Nett weight of the set: ≈ 77.5 kg



Picture left showing the Installation Console (forming part of set # C-033-2XL) upon final installation condition of the CXL.

## Footing device for relocatable installation on finished ground:



**Article no.: XL-U333-6/540kg** – Set consisting of:

- **Portable Foot** (pictures) – CXL-associated dismountable, 4-fold levellable/plumbable heavy-weight base ≈ 130 x 130 cm plan; cassette-type steel frame welded resistant to bending, HT-hot-dipped, additionally PES powder-coated & baked at ≈ 200° C in RAL 9006/light grey métallisé. Coming readily assembled & completed with steel and specially moulded decorative-concrete slab inserts. Standard accessories coming with: Locking block with key, special spanner for levelling, and pair of slab-handling grips. Erection/insertion of the CXL requires hoisting equipment (mim. admissible load ≈ 200 kg). [If Portable Foot intended for installation of a »Heater«-equipped CXL, this requires (non-retrofitable) in-factory modification by articles # U333-CHIRA & associated # XH.000.013]  
Nett weight: ≈ 540 kg.
- **Installation Upright:** Same as Installation Console of # C-033-2XL, however, without any base plate.  
**Coming factory-prefixed to the CXL's pole.**  
Nett weight: ≈ 10.0 kg.

Nett weight of the set: ≈ 550 kg

## CXL-associated optional equipment

### BAHAMA® Light



- 1 Article no.: XL-230444 – Non-retrofitable 4-lamp system. –  
For »Heater«-equipped CXL:  
Article no.: XL-CH-230444  
Collective candlelight power ≈ 240 W – Collective power consumption ≈ 0.044 kW/hour
- 2 Article no.: XL-230666 – Non-retrofitable 6-lamp system. –  
For »Heater«-equipped CXL:  
Article no.: XL-CH-230666  
Collective candlelight power ≈ 360 W – Collective power consumption ≈ 0.066 kW/hour

### BAHAMA® Heater



- 1 Artikel no.: XL-CHIRA-400/3 – Non-retrofitable BAHAMA® system with 4 IR radiators ea. 2000 W. Primary source required locally: 400 V/3-phase – connecting load: 6.1 or 8.1 kW per CXL unit. Operating mode: Each single radiator can be set ON/OFF (inside remote External Control Unit).
- 2 Article no.: XL-DIM-CHIRA-400/3 – Non-retrofitable BAHAMA® system with 4 dimmable IR radiators. Primary source required locally: 400 V/3-phase – connecting load: 6.1 or 8.1 kW per CXL unit. Alternative operating modes:
  - 2.1 All radiators to be set ON/OFF collectively or, provided basic collective setting ON:
  - 2.2 Each single radiator to be controlled infinitely variable within a range from 300 to 2000 W, respectively (inside remote External Dim Control Unit).

### BAHAMA® Sound



- 1 Article no.: XLSS-033-2 – Built-in (non-retrofitable) STANDARD outdoor speaker equipment: Pole-integrated wiring with 4 built-in connecting outlets/positions to select from. Coming with 1 (one) final-stage standard speaker unit. For optional stereo sound operation, an additional second final-stage standard speaker unit can be ordered either initially or later.
- 2 Article no.: XLBS-033-2 – Built-in (non-retrofitable) BOSE outdoor speaker equipment: Pole-integrated wiring with 4 built-in connecting outlets/positions to select from. Coming with 1 (one) final-stage BOSE speaker unit. For optional stereo sound operation, an additional second final-stage BOSE speaker unit can be ordered either initially or later.

Picture left: Original BOSE

### BAHAMA® Gutters



- 1 Article no.: XL-VR-TVR-12 – Mechanical 4-side Frame Prefitting (not retrofitable): Required for either ab-initio or later installation of a model/size-associated textile gutter linking each two (or more) same-size square CXL umbrella structures intended to be allocated adjacent to each other.
- 2 Article no.: XL-TVR-12/150, ou XL-TVR-12/155, ou XL-TVR-12/160 respectively: Textile Linking & Draining Gutter. – Tailored to link each two same-size square CXL structures precisely set & installed adjacent to each other on the same site level and at a horizontally parallel canopy edge distance of 25 cm (prerequisite for proper function). Gutter designed to drain rainwater into one or, at choice, the opposite direction. – Coming as kit with illustrated assembly instructions.

### BAHAMA® Maritime

Article no.: CXL-V4A – Special folding frame edition: All non-aluminium & non-coated frame armatures such as tension rods, articulation axles, fittings, fixing screws, etc. – a total of over 200 parts – made of salt water-resistant V4A stainless-steel alloy as required on board of ocean liners.

## BAHAMA®

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