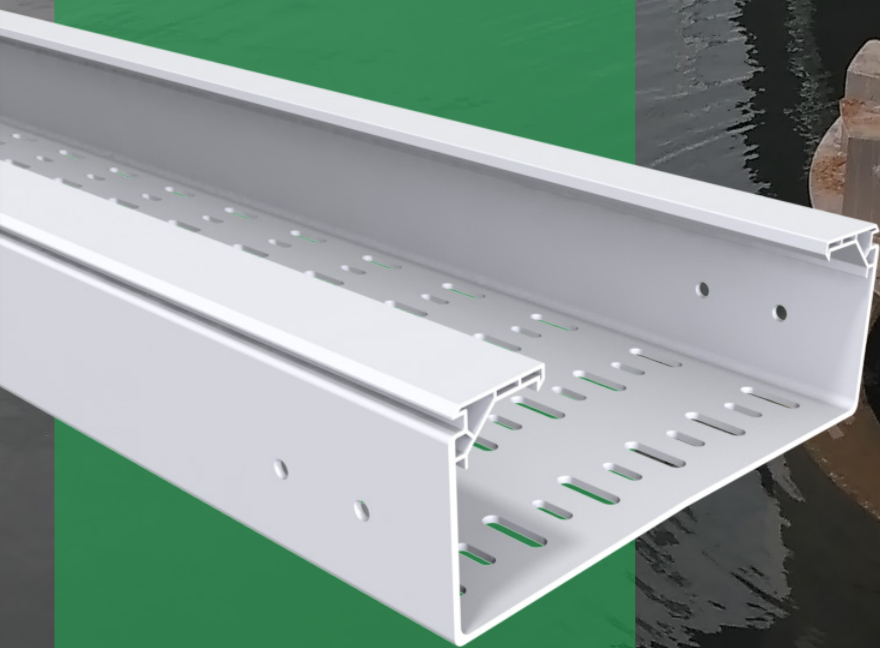


Case of
success:

Dunaújváros Sewage plant (Hungary)

BEBasor

CABLE TRAY SPECIALIST



Basorplast BPE



1.584 meters of PVC cable trays
1.056 union joints
4.224 screws

The Dunaújváros Plant

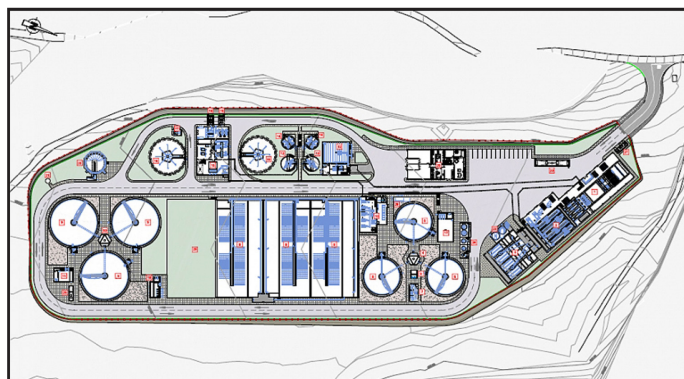
Urban wastewater treatment station in Hungary.

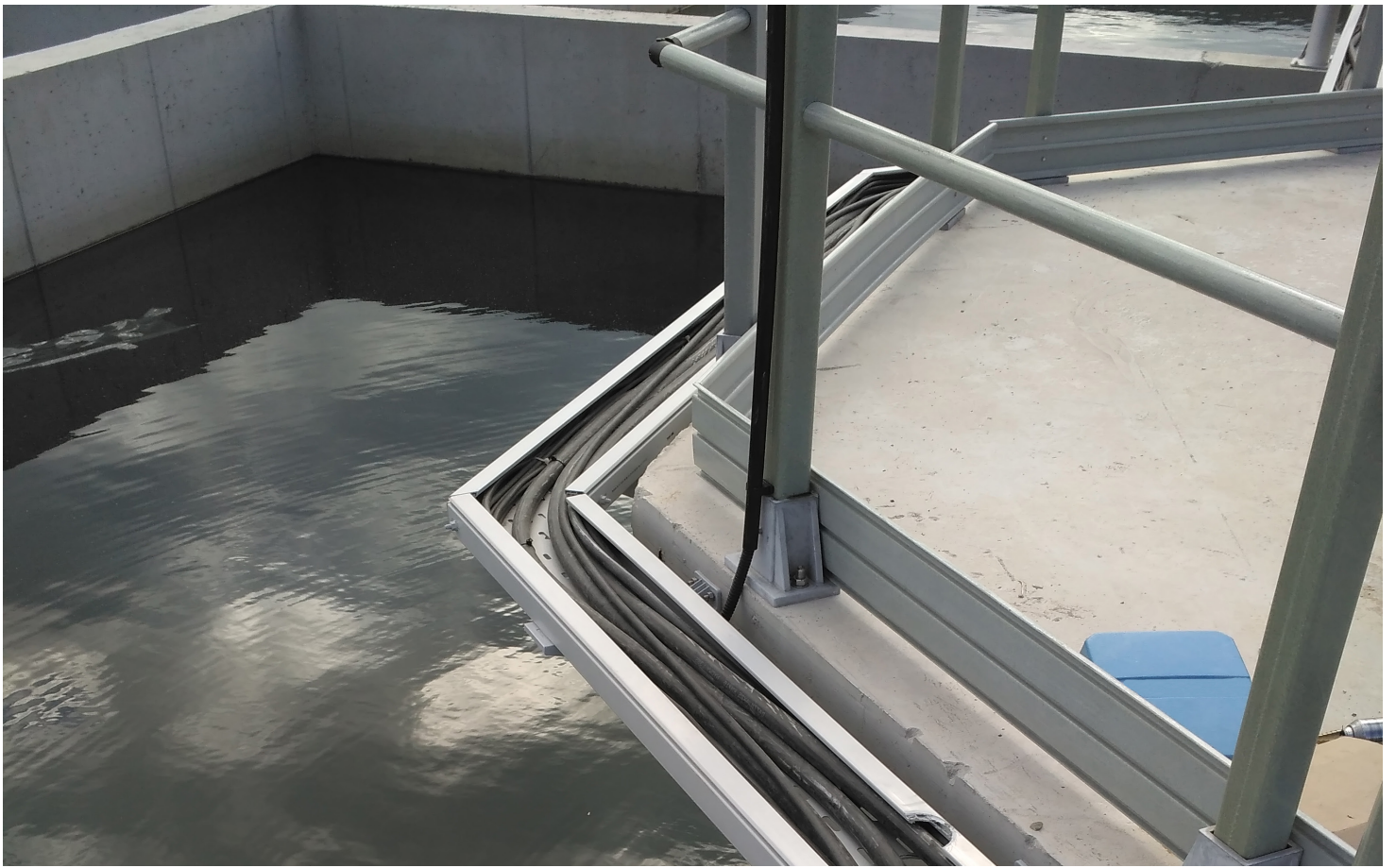
The Dunaújváros urban wastewater treatment station is a project of great impact and importance for the local community of Dunaújváros, Hungary. This facility will treat the wastewater of a population of more than 250,000 persons in the Western part of the city and will contribute to the protection of the community against waterborne diseases. In addition, it will allow the reuse of treated wastewater and the recovery of sludge for agricultural purposes.

The WWTP has a coarse well, an initial pumping station, pre-treatment (coarse and fine roughing and grit traps - degreasers through aerated channels), secondary treatment (prolonged aeration with nitrification-denitrification) and final disinfection of the effluent by means of chlorination. Likewise, the WWTP also has a treatment line for the sludge produced, where it is thickening by gravity and subsequent dehydration to reduce the final volume of the same.

Characteristics:

- Type: Wastewater plant
- Location: Dunaújváros (Hungary)
- Construction started: March 2016
- Estimated investment: 22.000.000 USD
- Stations: 6
- General Contractor: Veolia France



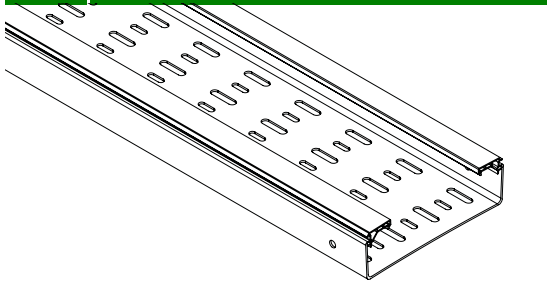


BASORPLAST BPE

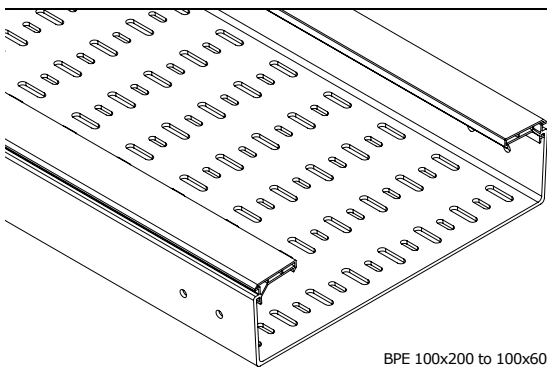
UL 568

DATA SHEET INSTALLED PRODUCT

BPE



BPE 60x100 to 60x300



BPE 100x200 to 100x600

Models (HxB):
60x100; 60x150; 60x200; 60x300; 100x200; 100x300; 100x400; 100x600.

Types: Slotted or solid bottom.

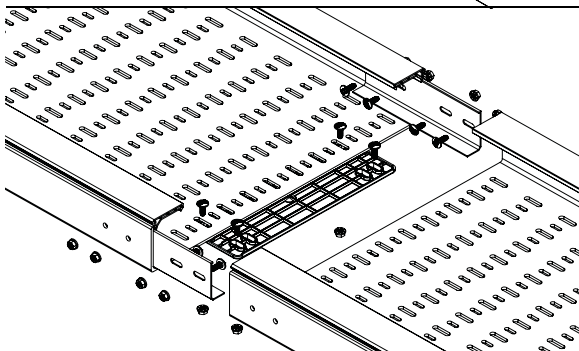
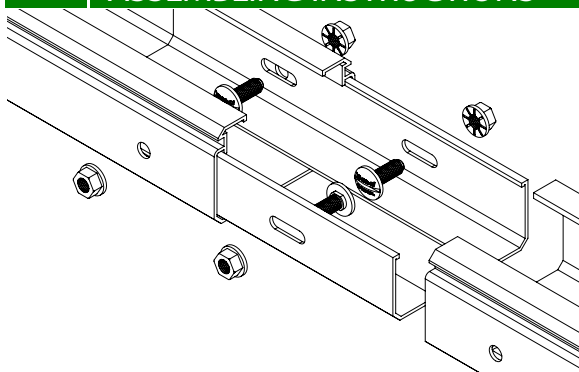
Finishes: PVC M1 UV RAL 7035

Characteristics of the tray:

- Non metallic system
- Resistant to UV radiation. Excellent behaviour in outdoor installation.
- Impact Strength: 20J, except 60x100 with 10J
- Minimum temperature: -4 °F
- Maximum temperature: 140 °F
- Non-flame propagating component
- Without electrical continuity
- Electrical insulating component
- Dielectric Strength 18 +/- 2 kV/mm
- High protection inside and outside against corrosive substances
- Plastic system resistant to humidity/salty and chemical environments according to DIN 8061 and iISO/TR 10358
- M1 reaction to fire acc. to UNE 23727
- Glow wire test degree 1760 °F, EN 60695-2-11
- Flammability UL 94-VO, ANSI/UL 94-1995
- Limiting Oxygen Index LOI > 50%, EN ISO 4589
- Comply with RoHS directive, 2011/65/UE
- Raw material without silicone



ASSEMBLING INSTRUCTIONS



- For the assembly, two union joints and four M8 Bolt sets are needed for each stretch (8 for H100 models). For trays with a width ≥ 400 mm it is necessary to use the JUBPE-C base joint to accomplish the requirements of full load transverse arrow indicated by IEC 61537. This union requires 4 screw set CTBP M8 PVC, and it can be placed inside or outside the cable tray.
- Tray installation for electrical systems should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Suitable for wet, salty and chemical aggressive environments.
- To assure good performance under expansions, the increase in temperature must be noted, between the installation and the maximum temperature expected. Depending on the expected growth in the temperature (ΔT) leave a gap (h) between cable trays according to the following table :

ΔT (°F)	h (mm)
68	5
86	7
104	9
122	11

TESTS RESULTS ACCORDING TO UL 568

- Safe working load:

SWL values for 104 °F

NEMA classification	MODEL	Safe Working Load - kg/m (lb/ft)		
		2,4 m (8 ft)	1,8 m (6 ft)	1,5 m (5 ft)
-	BPE-60x100	3,1 (2,1)	5,5 (3,7)	8 (5,4)
-	BPE-60x150	4,2 (2,8)	7,6 (5,1)	10,9 (7,3)
-	BPE-60x200	19,3 (13)	34,3 (23,1)	49,5 (33,2)
5AA	BPE-60x300	21,2 (14,2)	37,8 (25,4)	54,4 (36,5)
5A	BPE-100x200	33,1 (22,3)	59 (39,6)	84,9 (57,1)
8AA	BPE-100x300	52,4 (35,2)	93,2 (62,6)	134,3 (90,2)
8A	BPE-100x400	81,3 (54,6)	144,6 (97,2)	208,3 (140)
8B	BPE-100x600	121,7 (81,8)	216,5 (145,4)	311,7 (209,5)

SWL values for 140 °F

NEMA classification	MODEL	Safe Working Load - kg/m (lb/ft)		
		2,4 m (8 ft)	1,8 m (6 ft)	1,5 m (5 ft)
-	BPE-60x100	2 (1,3)	3,6 (2,4)	5,2 (3,5)
-	BPE-60x150	2,7 (1,8)	4,9 (3,3)	7,1 (4,7)
-	BPE-60x200	12,6 (8,4)	22,4 (15)	32,2 (21,6)
-	BPE-60x300	13,8 (9,3)	24,6 (16,5)	35,4 (23,8)
5AA	BPE-100x200	21,6 (14,5)	38,4 (25,8)	55,3 (37,1)
5A	BPE-100x300	34,1 (22,9)	60,7 (40,8)	87,4 (58,7)
8AA	BPE-100x400	53 (35,6)	94,2 (63,3)	135,7 (91,1)
8A	BPE-100x600	79,3 (53,3)	141 (94,7)	203 (136,4)

NOTE: Tests according to UL 568 Method A (Load Before Destruction), with 1.5 Safety factor

- Water absorption: The absorption of water by the material is minor than 0.5 percent.
- Dielectric strength: There is no dielectric breakdown in the material after conditioning.
- Weathering: The material retain more than 75% of the original recorded flexural strength.
- Combustibility of cable tray assemblies: Not emit flaming or glowing particles or dropping particles that ignite the cotton layer situated below the flame application point
- Flame spread: Material meet a flame spread index lower than 25.



Sizes & quantities
 60x150: 249 meters / 60x300: 354 meters
 100x300: 981 meters

1.584 meters

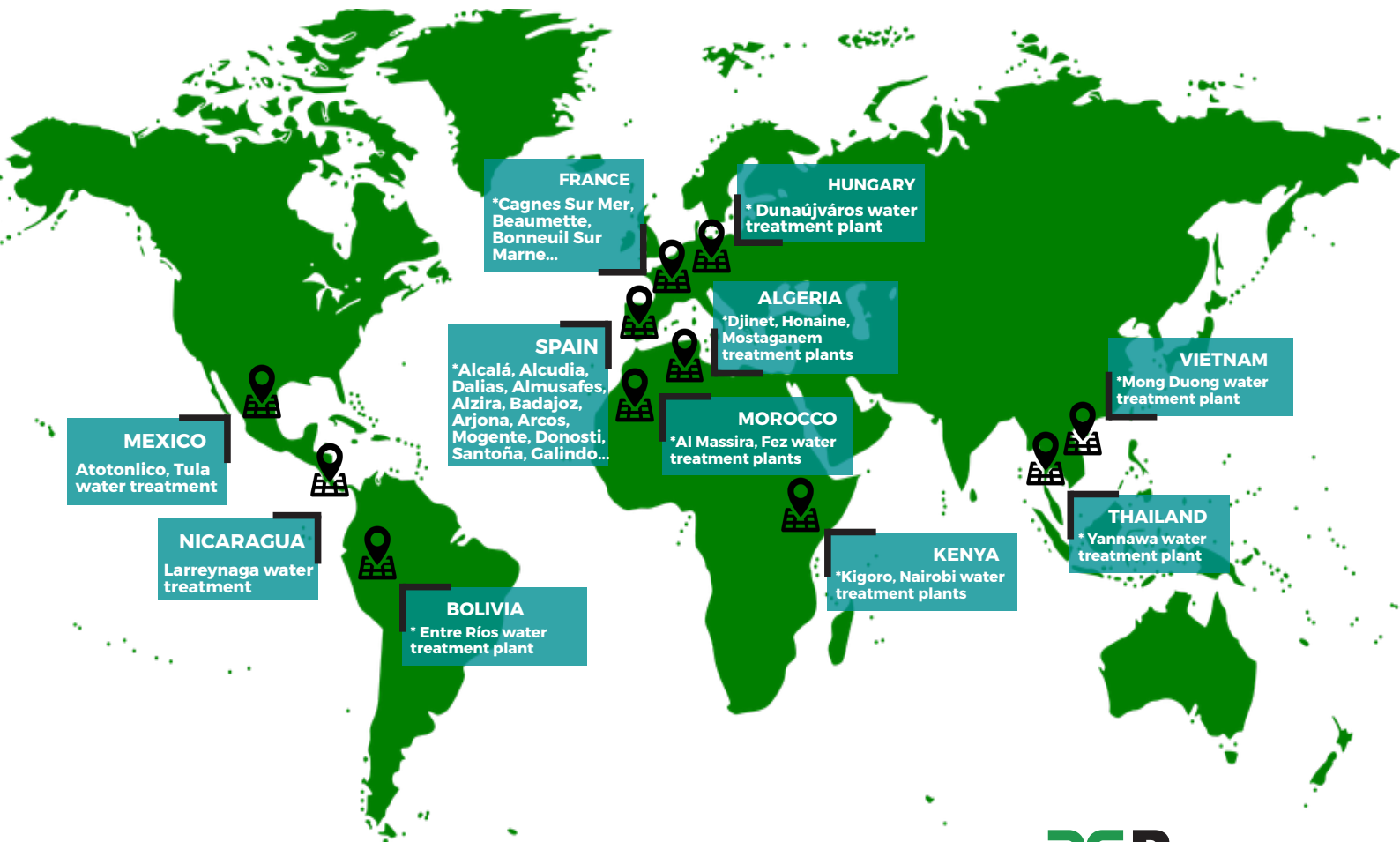
Experience Basor

Sewage & wastewater treatment plants

GLOBAL PROJECTS



TYPE	CITY	COUNTRY	NAME
Sewage & wastewater	Bangkok	Thailand	Yannawa wastewater plant
Sewage & wastewater	Mong Duong	Vietnam	Mong Duong wastewater plant
Sewage & wastewater	Atotonilco	Mexico	Atotonilco de Tula sewage plant
Sewage & wastewater	Lerreynaga	Nicaragua	Larreynaga water treatment plant
Sewage & wastewater	Doukkala	Morocco	Al-Massira treatment plant
Sewage & wastewater	Cagnes Sur Mer	France	Cagnes Sur Mer wastewater plant
Sewage & wastewater	Tarija	Bolivia	Entre Rios water treatment plant
Sewage & wastewater	Kigoro	Kenya	Nairobi water treatment plant
Sewage & wastewater	Mostaganem	Algeria	Mostaganem sewage treatment plant
Sewage & wastewater	Beaumettes	France	Beaumettes wastewater plant
Sewage & wastewater	Dunaújváros	Hungary	Dunaújváros wastewater plant
Sewage & wastewater	Fez	Morocco	Fez sewage plant
Sewage & wastewater	Djineet	Algeria	Djineet wastewater plant
Sewage & wastewater	Bonneuil Sur Marne	France	Bonneuil Sur Marne treatment plant
Sewage & wastewater	Honaine	Algeria	Honaine wastewater plant
Sewage & wastewater	Ali Mendjeli	Algeria	Ali Mendjeli water treatment plant
Sewage & wastewater	Al Massira	Morocco	Al Massira sewage plant
Sewage & wastewater	Alcalá de Henares	Spain	Alcalá de Henares Water Treatment Plant
Sewage & wastewater	Almusafes	Spain	Ford Factory Treatment Plant
Sewage & wastewater	Alzira	Spain	Alzira water treatment plant
Sewage & wastewater	Arcos de la Frontera	Spain	Arcos de la Frontera Water Treatment Plant
Sewage & wastewater	Arjona	Spain	Arjona drinking water treatment station
Sewage & wastewater	Badajoz	Spain	Badajoz drinking water treatment station



Experience Basor

Sewage & wastewater treatment plants

GLOBAL PROJECTS



TYPE	CITY	COUNTRY	NAME
Sewage & wastewater	Bétera	Spain	Bétera drinking water treatment station
Sewage & wastewater	Burgos	Spain	Burgos drinking water treatment station
Sewage & wastewater	Bullas	Spain	Bullas Drinking Water Treatment Station
Sewage & wastewater	Cáceres	Spain	Cáceres Water Treatment Plant
Sewage & wastewater	Fuente de Cantos	Spain	Fuente de León drinking water treatment
Sewage & wastewater	Gandia	Spain	Ull de Bou water treatment plant
Sewage & wastewater	Huesca	Spain	Huesca Water Treatment Plant
Sewage & wastewater	Las Palmas	Spain	Tamaraceite Drinking Water Treatment Station
Sewage & wastewater	Menorca	Spain	Addaia Drinking Water Treatment Station
Sewage & wastewater	Mohedas Granadilla	Spain	Granadilla drinking water treatment station
Sewage & wastewater	Rejas	Spain	Rejas Drinking Water Treatment Station
Sewage & wastewater	San Sebastián	Spain	Donosti sewage tank
Sewage & wastewater	Sestao	Spain	Galindo drinking water treatment station
Sewage & wastewater	Sevilla	Spain	Carambolo drinking water treatment station
Sewage & wastewater	Somosaguas	Spain	Somosaguas Water Treatment Plant
Sewage & wastewater	Talavera	Spain	Talavera drinking water treatment station
Sewage & wastewater	Toledo	Spain	Navalcan treatment plant
Sewage & wastewater	Toledo	Spain	Tefralux drinking water treatment station
Sewage & wastewater	Valladolid	Spain	Valladolid Water Treatment Plant
Sewage & wastewater	Villajoyosa	Spain	Villajoyosa drinking water treatment station
Sewage & wastewater	Zamora	Spain	Aguas de Zamora water treatment plant



BEGREEN
CableManagementSystems

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