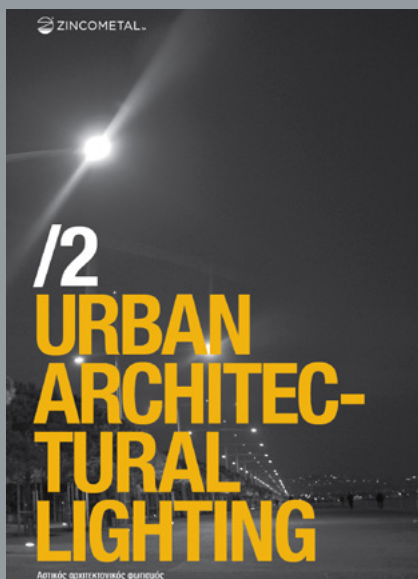


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WEBSITE LINK

[/ products / lighting poles & masts / architectural lighting poles](#)

PRODUCT NO:

DESCRIPTION:

IMAGE



ARMONIA Collection



ZINCOMETAL S.A. is constantly developing and improving its products. For this reason, all product descriptions in this catalogue are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. Regarding the validity of the International Standards it is considered always the oldest edition.

Stay tuned with the company by signing up in ZINCOMETAL's Newsletter ([www.zincometal.gr](http://www.zincometal.gr)) and Social Media.

## 1.0. Decorative Steel Lighting Poles

**Introduction** Decorative steel lighting poles are separated into a range of categories according to their type of cross-section, decorative bases and their accessories, which are adjusted to suitable brackets in order to bring in the desirable aesthetic result.

These categories consist of:

- ARMONIA Collection is composed of decorative conical steel lighting poles of circular cross-section. If it is necessary, decorative brackets are fit.
- SANTA Collection is composed of decorative straight steel poles of circular cross-section and decorative scissile die-cast aluminium base.
- PLAZA Collection is composed of decorative straight, stepped or striped lighting poles of square cross-section.
- CRETA Collection is a combination of steel round conical and straight cylindrical shafts with decorative die-cast aluminium or cast-iron connectors and accessories.
- CITY Collection is a combination of stepped steel lighting poles of circular cross-section and decorative die-cast aluminium or cast-iron connectors and accessories.
- RUSTIC Collection includes conical, straight and stepped poles with stripped surface of circular cross-section, decorative cast-iron base and accessories.
- IDEA Collection includes conical poles of circular cross-section in curved or bent forms, cylindrical poles with special alteration of the section or to adjust especially designed decorative accessories in order to provide a distinguishable architectural style.



## 1.1. ARMONIA Collection

### 1.1.1. ZINLUX ARMONIA

**With base plate**

#### Image 1

Decorative conical steel lighting poles of circular cross-section and decorative bracket from ARMONIA Collection in combination with a traditional urban lighting luminaire ZINLUX CORONA T- 780.



**Image 2**

Decorative conical steel lighting poles of circular cross-section and decorative bracket from ARMONIA Collection (BMP 119) in combination with an urban lighting luminaire ZINLUX STAR.



**Image 3**

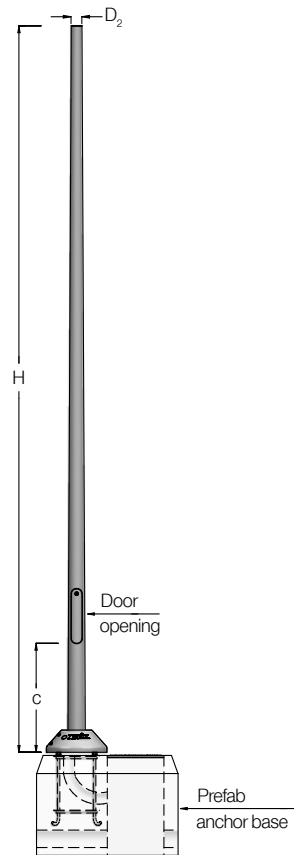
Decorative conical steel lighting poles of circular cross-section and decorative bracket from ARMONIA Collection (BMP 101) in combination with an urban lighting luminaire ZINLUX CITY.

**Image 4**

Decorative conical steel lighting poles of circular cross-section and decorative bracket from ARMONIA Collection (BMP 107) in combination with an urban lighting luminaire ZINLUX CITY.



Pole drawing model



**Introduction** Decorative conical steel lighting pole ZINLUX ARMONIA of circular cross-section, with circular base plate and with decorative base, especially designed in modern architectural style.

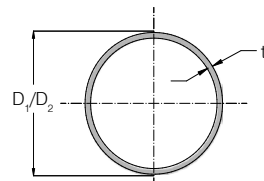
**Material** Hot rolled steel grade S235JR according to EN10025.

**Surface protection** Hot-dip galvanized according to International Standard EN ISO 1461 and electrostatic powder coating surface finish (Duplex System).

**Technical features** Round conical steel pole is made from steel sheet bend in special machines on regular circle profile with constant taper. Consisting from one (1) single piece for a pole height of up to 12m. The lighting pole, up to 12m, is welded across with only one stitch in automatic welding machines MIG (longitudinal welding). For a better static analysis there is a circular base plate with or without triangular gussets (depends on the headload) which is totally covered by a decorative base. Door opening is made from the body of the pole through special saw machine (IP54 and IK10). It fits tightly and it's equipped with security lock. Manufacturing according to EN-40.

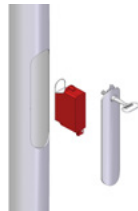
**Certificates** CE Certificate of Notified European Body (EN-40, European Commission).

## Cross-section



Conical circular cross-section ( $D_1$ : basis cross-section,  $D_2$ : top cross-section,  $t$ : thickness).

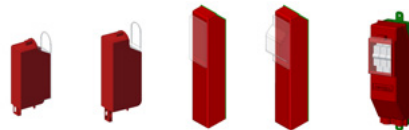
## Door opening



Door opening is made from the body of the pole through special saw machine. It fits tightly on the pole and is equipped with a security lock. It ensures the desirable aesthetic result. Ingress protection IP54 and protection against external mechanical impact IK10. Finally, it is accompanied with a security lock ZINCOMETAL of a triangular socket. It is user-friendly.

**Connection and safety of electrical circuit**

## Junction boxes



Range A-M1, A-M2, A-M3,  
A-M3A, A-M4

Junction boxes are made from polyamide resins, self-extinguishing and infrangible IP43 (A-M1, A-M2, A-M4) and IP54 (A-M3, A-M3A) and IK08 (A-M1, A-M2, A-M3A, A-M3). It is suitable for poles of section  $\leq \Phi 110$  (A-M1, A-M3) and  $\geq \Phi 120$  (A-M3A, A-M2, A-M4).

## Aluminium door cover



PP A1, PG A1, PG A2

An alternative choice of a door opening is the aluminium protective cover with a special lock and its own key for easy use. Protection IP55 through elastic gasket at the electrical compartment and protection against external mechanical impact IK08. It is suitable for poles of section  $\Phi 90$  (PP A1) and  $\Phi 100$ - $\Phi 110$  (PG A1),  $\Phi 120$ - $\Phi 166$  (PG A2).

### Decorative details of the base

#### Decorative bases

A big variety of ZINLUX decorative bases are suggested in order to provide an elegant architectural result. They perfectly cover the base plate and protect the anchor bolts.

#### B-S/AL Series aluminium bases



Decorative die-cast aluminium scissile base AS 12F with external diameter  $\Phi 330\text{mm}$  or  $\Phi 410\text{mm}$ . It is suitable for poles of cross-section from  $\Phi 102\text{mm}$  to  $\Phi 160\text{mm}$  (respectively).

#### Benefits:

- It facilitates maintenance work as it can be easily mounted and dismantled without removing the shaft of pole.

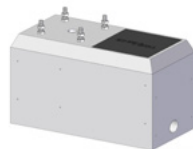
#### B-S4/IR Series cast-iron bases



Decorative cast-iron base "Simple" type of  $S_4$  cross-section  $\Phi 500\text{mm}$ . It is appropriate for pole's base of cross-section from  $\Phi 140\text{mm}$  to  $\Phi 160\text{mm}$  and base plate of  $\Phi 460\text{mm}$ . Material's quality is EN-GJL-200 according to DIN 1561 with the minimum strength 200MPa .

### Pole anchor bases

#### Prefab anchor base



ZINCOMETAL prefab concrete base is an innovative product which aims to cover every project needs.

#### Benefits:

- Durability and Strength.
- Easy and flexible electrical works.
- It can be transported to the project.
- Installation and completion in real time to minimize cost and time.

#### PR-M/800/190/16

ZINCOMETAL prefab concrete base 800x600x550mm is equipped with 4 hot dip galvanized anchor bolts M16x500mm in arrangement 190x190mm, the manhole, the tube in which the cable pass through and the necessary equipment/accessories.

- PR-M/1000/190/20 ZINCOMETAL prefab concrete base 1000x500x700mm is equipped with 4 hot dip galvanized anchor bolts M20x600mm in arrangement 190x190mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories. If it is necessary, it can be used as a primary base in order to construct a bigger one.
- PR-M/1000/235/20 ZINCOMETAL prefab concrete base 1000x500x700mm is equipped with 4 hot dip galvanized anchor bolts M20x600mm in arrangement 235x235mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories. If it is necessary, it can be used as a primary base in order to construct a bigger one.
- PR-M/1000/235/24 ZINCOMETAL prefab concrete base 1000x500x700mm is equipped with 4 hot dip galvanized anchor bolts M24x750mm in arrangement 235x235mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories. If it is necessary, it can be used as a primary base in order to construct a bigger one.
- PR-M/1000/280/24 ZINCOMETAL prefab concrete base 1000x500x700mm is equipped with 4 hot dip galvanized anchor bolts M24x750mm in arrangement 280x280mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories. If it is necessary, it can be used as a primary base in order to construct a bigger one.
- PR-SL/1000/235/24 ZINCOMETAL prefab concrete base 1000x1000x900mm is equipped with 4 hot dip galvanized anchor bolts M24x750mm in arrangement 235x235mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories.
- PR-SL/1000/280/24 ZINCOMETAL prefab concrete base 1000x1000x900mm is equipped with 4 hot dip galvanized anchor bolts M24x750mm in arrangement 280x280mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories.
- PR-SL/1400/280/24 ZINCOMETAL prefab concrete base 1400x1000x900mm is equipped with 4 hot dip galvanized anchor bolts M24x750mm in arrangement 280x280mm, the manwhole, the tube in which the cable pass through and the necessary equipment/accessories.

**Anchor base**












Another alternative suggestion for installation in real time is the pole anchor base, which is delivered hot dip galvanized.

- |                  |  |
|------------------|--|
| BAG M16/50/Z/190 | Pole anchor base with 4 anchor bolts M16 of 500mm length each one, in arrangement 190x190mm. |
| BAG M20/60/Z/190 | Pole anchor base with 4 anchor bolts M20 of 600mm length each one, in arrangement 190x190mm. |
| BAG M20/60/Z/235 | Pole anchor base with 4 anchor bolts M20 of 600mm length each one, in arrangement 235x235mm. |
| BAG M24/75/Z/235 | Pole anchor base with 4 anchor bolts M24 of 750mm length each one, in arrangement 235x235mm. |
| BAG M24/75/Z/280 | Pole anchor base with 4 anchor bolts M24 of 750mm length each one, in arrangement 280x280mm. |

## Table of ZINLUX ARMONIA

## With base plate

60 Series (top diameter  $\Phi 60$ )

																
								Junction box	Anchor base			Prefab base				
Code	mm	mm	mm	mm	mm	mm	mm	Code	Κωδικός	mm	mm	Code				
ARM303T	3000	3	$\Phi 90$	$\Phi 60$	$\Phi 310 \times 10$	300x55	600	A-M3	BAG M16/50/Z/190	M16x500	190x190	PR-M/800/190/16				
ARM304T	4000		$\Phi 100$			300x62		A-M3								
ARM404T			4			A-M1										
ARM305T	5000	3	$\Phi 110$			300x63	800	A-M3A					BAG M20/60/Z/190	M20x600	235x235	PR-M/1000/190/20
ARM405T		4	$\Phi 120$			A-M2										
ARM306T	6000	3	$\Phi 128$			$\Phi 310 \times 12$	300x75	800					A-M3A A-M2	BAG M24/75/Z/235	M24x750	280x280
ARM407T		7800	$\Phi 140$		$\Phi 400 \times 12$	BAG M24/75/Z/280										
ARM408T/1	$\Phi 400 \times 15$				BAG M24/75/Z/235											
ARM408T/2	4	$\Phi 150$	$\Phi 460 \times 15$		300x80	A-M3A	BAG M24/75/Z/280	235x235	PR-SL/1000/235/24							
ARM409T/1	8800	4	$\Phi 150$		$\Phi 400 \times 15$	300x85	800	A-M3A A-M2 A-M4	BAG M24/75/Z/235	M24x750	280x280	PR-SL/1000/280/24				
ARM409T/2					$\Phi 460 \times 15$								BAG M24/75/Z/280			
ARM410T/1	9800	4	$\Phi 160$		$\Phi 400 \times 15$	300x85	800	A-M3A A-M4	BAG M24/75/Z/235	M24x750	235x235	PR-SL/1000/235/24				
ARM410T/2				$\Phi 460 \times 15$	BAG M24/75/Z/280											
ARM412T	11800	4	$\Phi 180$	$\Phi 460 \times 20$				BAG M24/75/Z/280	M24x750	280x280	PR-SL/1400/280/24					

76 Series (top diameter  $\Phi 76$ )

ARM306T1	6000	3	$\Phi 136$	$\Phi 76$	$\Phi 310 \times 10$	300x63	800	A-M3A A-M2	BAG M20/60/Z/190	M20x600	190x190	PR-M/1000/190/20						
ARM406T1			$\Phi 400 \times 12$			BAG M20/60/Z/235			235x235			PR-M/1000/235/20						
ARM407T1/1	6800	$\Phi 146$	$\Phi 460 \times 12$			300x75			BAG M24/75/Z/235			PR-M/1000/235/24						
ARM407T1/2			BAG M24/75/Z/280			280x280	PR-M/1000/280/24											
ARM408T1/1	7800	$\Phi 156$	$\Phi 400 \times 15$			300x80	BAG M24/75/Z/235	235x235	PR-SL/1000/235/24									
ARM408T1/2			$\Phi 460 \times 15$			BAG M24/75/Z/280	280x280	PR-SL/1000/280/24										
ARM409T1/1	8800	4	$\Phi 166$		$\Phi 400 \times 15$	300x85	800	A-M3A A-M2 A-M4	BAG M24/75/Z/235	M24x750	235x235	PR-SL/1000/235/24						
ARM409T1/2					$\Phi 460 \times 15$				BAG M24/75/Z/280				280x280	PR-SL/1000/280/24				
ARM410T1/1	9800	4	$\Phi 176$		$\Phi 400 \times 15$	300x85	800	A-M3A A-M4	BAG M24/75/Z/235				M24x750	235x235	PR-SL/1000/235/24			
ARM410T1/2					$\Phi 460 \times 15$				BAG M24/75/Z/280							280x280	PR-SL/1400/280/24	
ARM411T1	10800	4	$\Phi 186$		$\Phi 460 \times 20$				BAG M24/75/Z/280							M24x750	280x280	PR-SL/1400/280/24
ARM412T1	11800	4	$\Phi 196$		$\Phi 460 \times 20$				BAG M24/75/Z/280							M24x750	280x280	PR-SL/1400/280/24

89 Series (top diameter  $\Phi 89$ )

													
										Ακροκιβώτιο	Βάση αγκύρωσης		Προκάτ Βάση
Κωδικός	mm	mm	mm	mm	mm	mm	mm	Κωδικός	Κωδικός	mm	mm	Κωδικός	
ARM408T2/1	7800	4	$\Phi 168$	$\Phi 89$	$\Phi 400 \times 15$	300x80	800	A-M3 A-M2 A-M4	BAG M24/75/Z/235	M24x750	235x235	PR-SL/1000/235/24	
ARM408T2/2					$\Phi 460 \times 15$				BAG M24/75/Z/280		280x280	PR-SL/1000/280/24	
ARM409T2/1	8800		$\Phi 178$		$\Phi 400 \times 15$	300x85			A-M3A A-M4		BAG M24/75/Z/235	235x235	PR-SL/1000/235/24
ARM409T2/2					$\Phi 460 \times 15$						BAG M24/75/Z/280	280x280	PR-SL/1000/280/24
ARM410T2/1	9800		$\Phi 188$		$\Phi 400 \times 15$	300x85		BAG M24/75/Z/235			235x235	PR-SL/1000/235/24	
ARM410T2/2					$\Phi 460 \times 15$								
ARM411T2	10800		$\Phi 198$		$\Phi 460 \times 20$				BAG M24/75/Z/280		280x280	PR-SL/1400/280/24	
ARM412T2	11800		$\Phi 208$		$\Phi 460 \times 20$								

102 Series (top diameter  $\Phi 102$ )

ARM408T3	7800	4	$\Phi 180$	$\Phi 102$	$\Phi 460 \times 15$	300x85	800	A-M3A A-M2 A-M4	BAG M24/75/Z/280	M24x750	280x280	PR-SL/1000/280/24
ARM409T3	8800		$\Phi 190$		$\Phi 460 \times 15$							
ARM410T3	9800		$\Phi 200$		$\Phi 460 \times 15$							
ARM411T3	10800		$\Phi 210$		$\Phi 460 \times 20$							
ARM412T3	11800		$\Phi 220$		$\Phi 460 \times 20$							



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