

TECHNICAL ASSIGNMENT

for the development of KM-stage design documentation
of a steel polygonal floodlight mast

Please fill in the fields below in as much detail as possible. Unfilled items will be taken at their default values (see the italic notes), which may lead to an inaccurate calculation or the need to request the data again.

1. Customer and site data

Customer organisation	full name
Contact person	full name, position
Phone / e-mail	
Object name	e.g. "Intersection of ... / ..."
Address / settlement of installation	region, district, city
Number of poles ordered	pcs, broken down by size if different
Desired delivery time	

2. General data for the documentation

Date of completing the technical assignment	
To be written in the title blocks	
Calculate the tower for the following operating conditions in accordance with DBN V.1.2-2:2006	

3. Height and climatic conditions

Height of the tower shaft	to be determined by the design
Construction area	
Terrain type for load calculation	
Seismicity on the MSK-64 scale, points	
Wind zone by maximum wind pressure	
Ice zone	
Wind zone for wind pressure with ice	
Maximum air temperature	
Minimum air temperature	

4. Mounted equipment (floodlights)

Floodlight arrangement (crown type):	– cross-arm (one or more levels); – fixed crown inclined at 15 degrees; – fixed circular crown; – mobile circular crown
Floodlight positions on the crown (with levels)	as in Appendix 1 (attached separately)
Floodlight type	
Floodlight dimensions (width / height / thickness)	
Floodlight weight	
Distance between the holes of the floodlight mounting	
Lightning rod required	yes / no
Size of the lightning rod	
Height of the tower with the lightning rod	to be determined by the design
Floodlight service platform required	yes / no
Number of floodlight service platforms	to be determined by the design

5. Pole structure

Climbing ladder required	yes / no
Guard rails along the ladder	yes / no
Rest platforms required	yes / no
Number of shaft sections / Height of shaft sections	to be determined by the design
Joint between shaft sections	telescopic / flanged
Joint between the shaft and the foundation	telescopic / flanged
Steel grade	S245 and S345
Cross-section sizes of the shaft sections at the top and bottom	to be determined by the design

6. Deformation requirements

Design life of the structure (check for the first group of limit states)	40 years
Determination of the tower deflection (check for the second group of limit states)	yes / no
Share of time η during which the conditions of the second limit state may be violated	0.02
Relative deflection of the tower to its height	

7. Coating and additional requirements

Corrosion protection	to be determined by the design / at the customer's request
Sketch of the tower to be designed	attached separately
Additionally	provide for routing cables inside the mast and a pipe for draining condensate

The KM-stage design documentation must include: source data and scope of application; an erection scheme (with the level of the shaft-to-foundation joint and the levels of the floodlights) and drawings of the joints; a calculation sheet; loads for calculating the fixing in the ground; a steel section schedule.

Completed by (full name, position): _____

Date: _____

Signature: _____

Please send the completed form to info@polygonal.com.ua