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# SPIS TREŚCI

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|  |  | Veneto C with decorative base Memphis                     |                                       |   |         |
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# STREFY WIATROWE

WIND ZONES

wg Az1:2009 do PN-77/B-02011

according to Az1:2009 to PN-77/B-02011

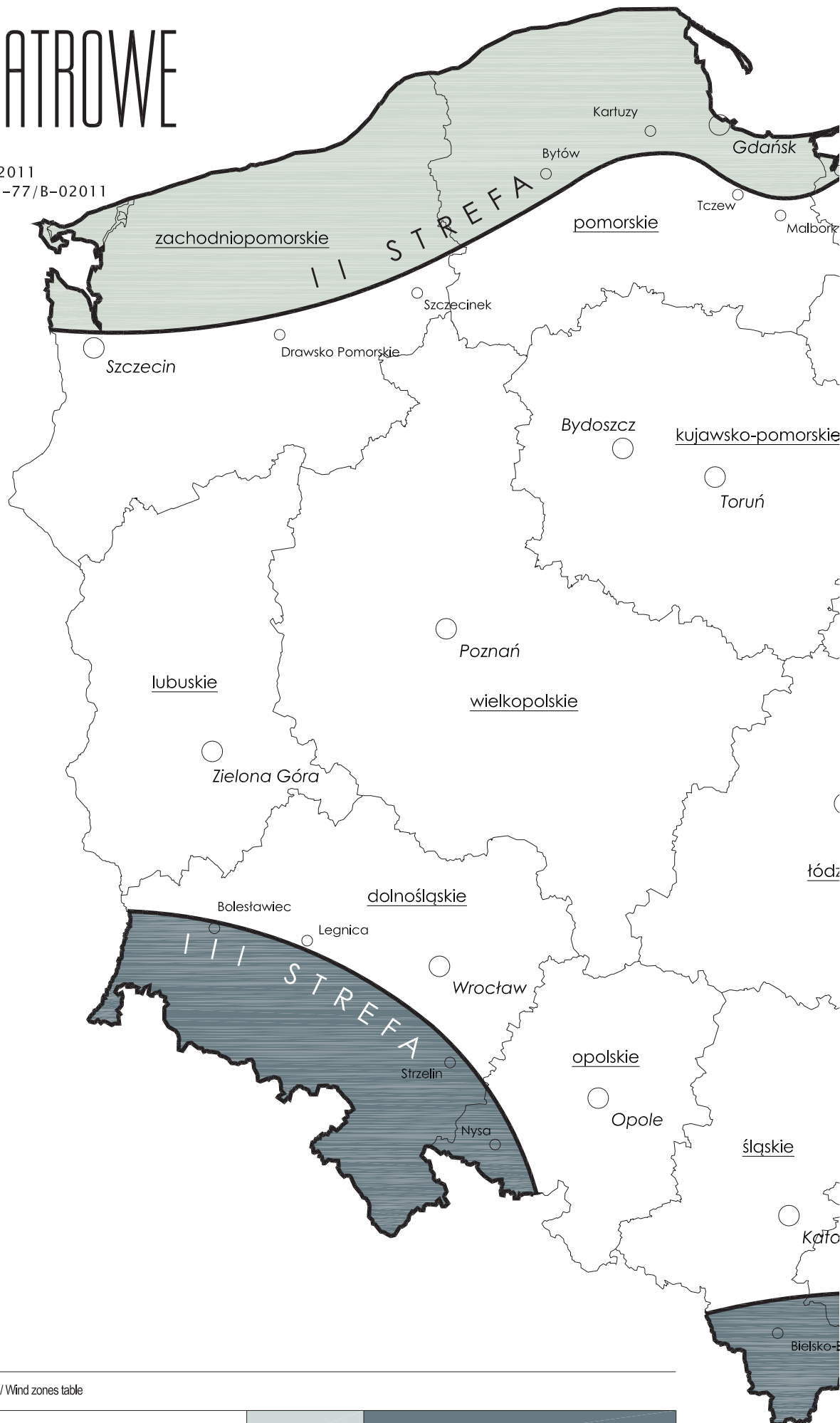


Tabela z charakterystycznymi wartościami wiatru / Wind zones table

| STREFA WIATROWA<br>WIND ZONE               | I         |   | II        | III       |   |
|--|-----------|---|-----------|-----------|---|
| H - wysokość terenu<br>H - ground altitude | H ≤ 300 m | H > 300 m                                 | H ≤ 300 m | H ≤ 300 m | H > 300 m                                 |
| prędkość wiatru (m/s)<br>wind speed (m/s)  | 22        | $22 \times [1 + 0.0006 \times (H - 300)]$ | 26        | 22        | $22 \times [1 + 0.0006 \times (H - 300)]$ |



# SŁUPY OŚWIETLENIOWE

LIGHTING POLES





# LEGENDA

## LEGEND



Wysokość punktu świetlnego  
Lighting point



Wysięg punktu świetlnego  
Lighting point outreach



Wysokość słupa  
Pole height



Górna średnica słupa  
Top diameter



Dolna średnica słupa  
Bottom diameter



Wysokość drzwiczek  
Door height



Szerokość drzwiczek  
Door width



Odległość drzwiczek od poziomu gruntu  
Door distance from ground



Wymiary podstawy oraz rozstaw kotew  
Baseplate dimensions and bolts distance



Kotwa  
Anchor bolt dimensions



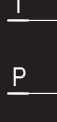
Wymiary fundamentu  
Concrete block dimensions



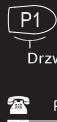
Obciążenie słupa  
Pole load



Wysokość wkopu  
Embedding height



Moment zginający przy podstawie  
Bending moment at baseplate



Siła ścinająca przy podstawie  
Shear force at baseplate



Pozycja drzwiczek względem wysięgnika  
Door position to bracket



Drzwiczki  
Door

Oprawa  
Luminary



Prosimy o kontakt z biurem Valmont  
Please contact Valmont office





# DOBÓR KONSTRUKCJI

POLE SELECTION

Nazwa słupa, masztu, kolumny – A  
Pole, mast, column name

Typ słupa, masztu, kolumny – B  
Pole, mast, column type

Kształt – C  
Shape

Dostępne opcje wysokości – D  
Heights available

Powierzchnia oprawy – E  
Luminary wind area

## ORION P D

OŚMIOKĄTNA | STALOWA KOLUMNIA OŚWIETLENIOWA  
Z PODWÓJNYM WYSIEGNIKIEM RURIOWYM  
Octagonal steel lighting column  
with double tubular bracket

### Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to the norm EN ISO 1461)

### Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

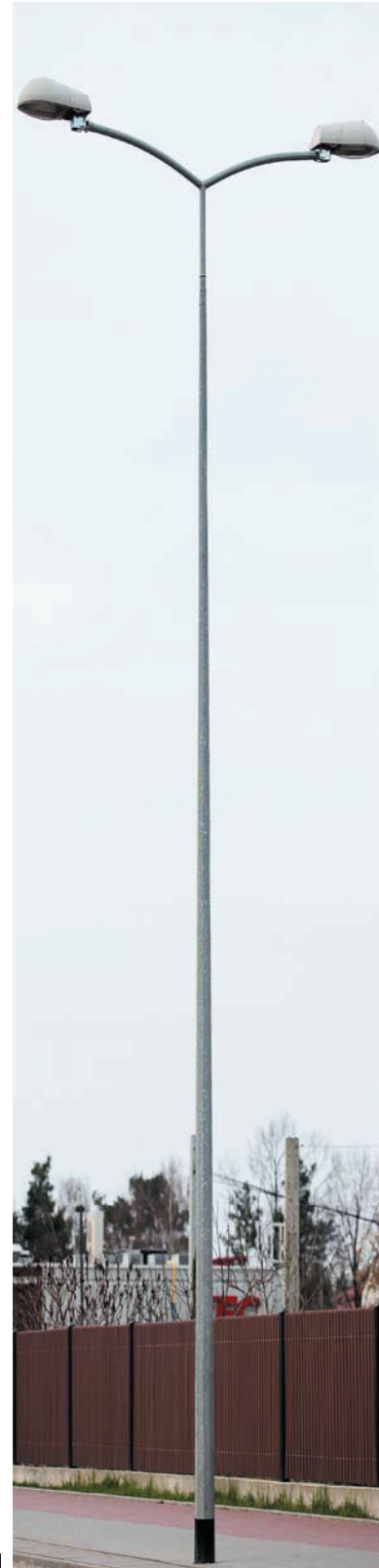
| H   | w   | d    | D    | W    | s    | h    | P/R       |      |      |      |
|-----|-----|------|------|------|------|------|-----------|------|------|------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm] | [mm] |
| 7   | 1,5 | 60   | 195  | 400  | 110  | 500  | 412 / 300 | M24  | 100  | 800  |
| 8   |     |      |      |      |      |      |           |      | 43   | 1000 |
| 9   |     |      |      |      |      |      |           |      | 120  | 1200 |
| 10  |     |      |      |      |      |      |           |      | 43   | 1500 |
| 11  |     |      |      |      |      |      |           |      | 150  |      |
| 12  |     |      |      |      |      |      |           |      | 43   |      |

Standardowa wysokość wysięgnika 2 m  
Standard height of the bracket 2 m

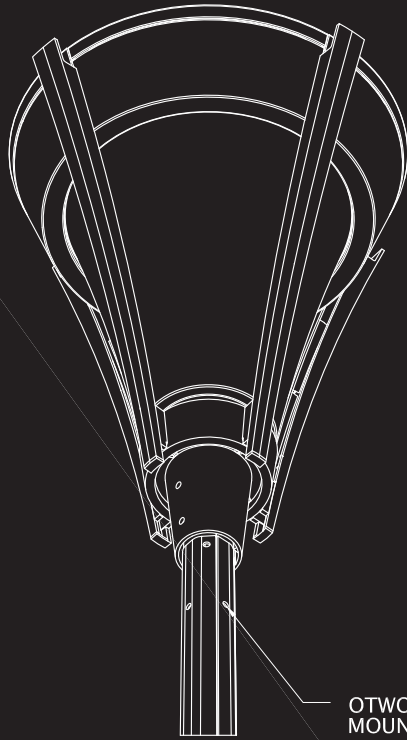
Tabela z wynikami obciążeń / Maximum load

| H   | Fig  | P    |      |      |      | M      | T     |
|-----|------|------|------|------|------|--------|-------|
|     |      | P1   | P2   | P3   | P4   |        |       |
| [m] | [kg] | [m2] | [m2] | [m2] | [m2] | [daNm] | [daN] |
| 7   | *15  | 0,38 | 0,29 | 0,23 | 0,14 | 1118   | 256   |
| 8   |      | 0,34 | 0,27 | 0,20 | 0,12 | 1385   | 288   |
| 9   |      | 0,26 | 0,19 | 0,13 | -    | 1458   | 296   |
| 10  |      | 0,16 | 0,10 | -    | -    | 1463   | 262   |
| 11  |      | 0,27 | 0,16 | 0,08 | -    | 1763   | 283   |
| 12  |      | 0,15 | 0,06 | -    | -    | 1745   | 286   |

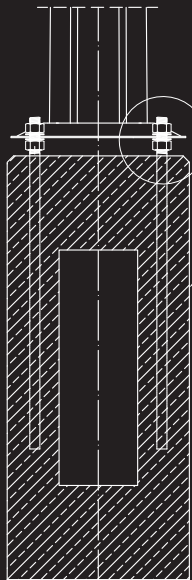
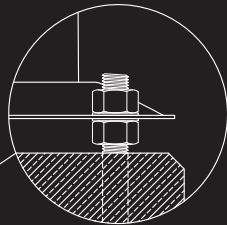
\* Max. waga jednej oprawy  
\* Max. weight of one luminary



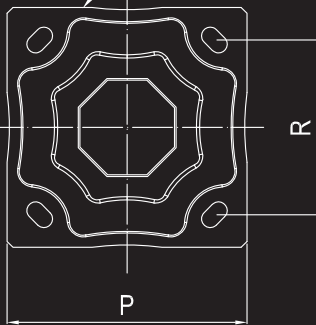
# SATURN P



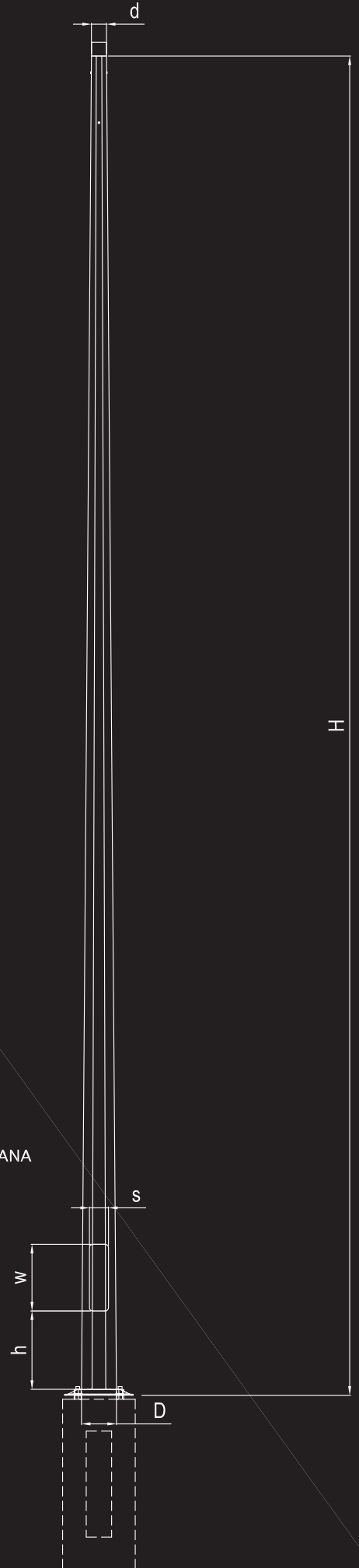
OTWORY MONTAŻOWE  
MOUNTING HOLES



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK



PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# SATURN P

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions














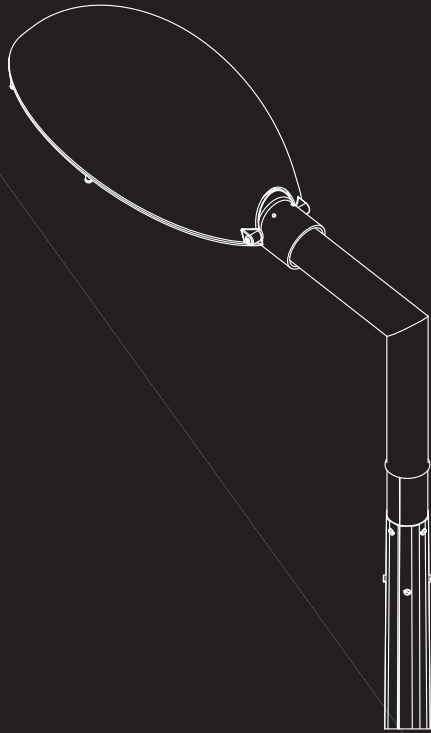
|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 3   | 60  | 140   | 400   | 95  | 500   | 271<br>/<br>200   | M18   | 100<br>/<br>30  | 800   |
| 3,5   |   |   |   |   |   |   |   |   |   |
| 4   |   |   |   |   |   |   |   |   |   |
| 4,5   |   |   |   |   |   |   |   |   |   |
| 5   |   |   |   |   |   |   |   |   |   |
| 6   |   |   |   |   |   |   |   |   | 1000  |

Tabela z wynikami obciążeń / Maximum load

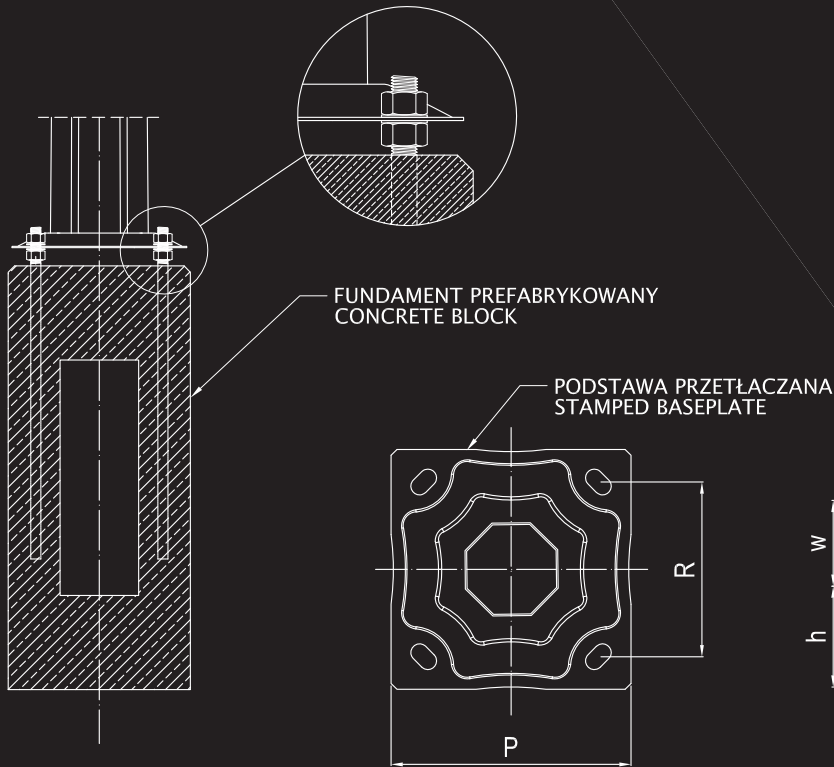
|  |  |  |  |                                    |  | M      | T     |
|---|---|---|--|------------------------------------|--|--------|-------|
|   |   | I, III strefa<br>< 300<br>m n.p.m.  | I, III strefa<br>300 - 450<br>m n.p.m. | II strefa<br>450 - 600<br>m n.p.m. | I, III strefa<br>600 - 900<br>m n.p.m. |        |       |
| [m]   | [kg]  | [m2]  | [m2]                                   | [m2]                               | [m2]                                   | [daNm] | [daN] |
| 3   | 40  | 2,82  | 2,35                                   | 1,98                               | 1,46                                   | 677    | 255   |
| 3,5   |   | 2,36  | 1,96                                   | 1,65                               | 1,20                                   | 695    | 234   |
| 4   |   | 1,80  | 1,48                                   | 1,24                               | 0,88                                   | 651    | 204   |
| 4,5   |   | 1,47  | 1,21                                   | 0,99                               | 0,70                                   | 665    | 195   |
| 5   |   | 1,35  | 1,10                                   | 0,90                               | 0,62                                   | 733    | 200   |
| 6   |   | 0,92  | 0,74                                   | 0,58                               | 0,38                                   | 760    | 194   |



# STAR P

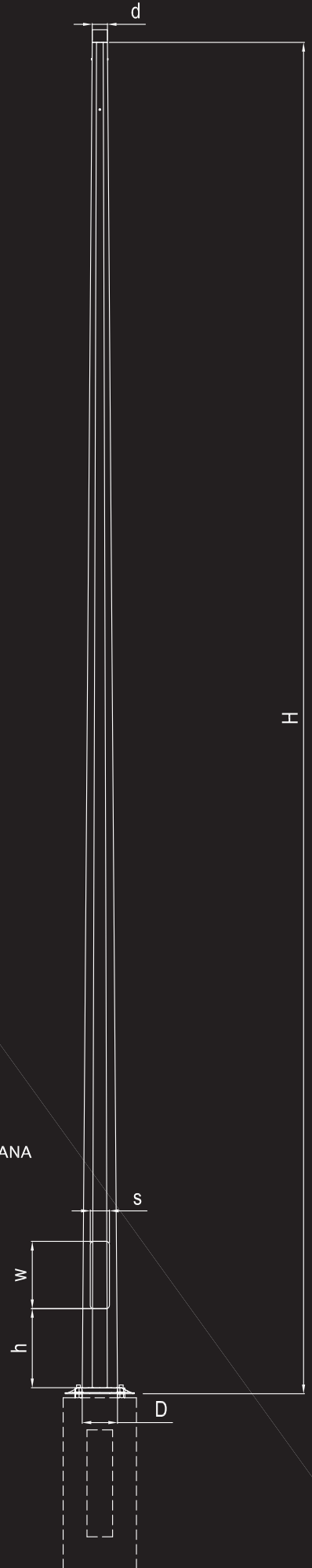


PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



H

d

S

w

h

D

# STAR P

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions














|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 6   | 60  | 160   | 400   | 95  | 500   | 271<br>/<br>200   | M18   | 100<br>/<br>30  | 1000  |
| 7   |   |   |   |   |   |   |   |   | 1200  |
| 8   |   |   |   |   |   |   |   |   |   |
| 9   |   |   |   |   |   |   |   |   |   |
| 10  |   |   |   |   |   |   |   |   |   |

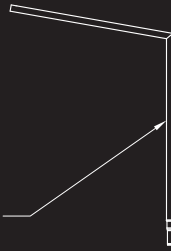
Tabela z wynikami obciążeń / Maximum load

|  |  |  |  |                                    |  | M      | T     |
|---|---|---|--|------------------------------------|--|--------|-------|
|   |   | I, III strefa<br>< 300<br>m n.p.m.  | I, III strefa<br>300 - 450<br>m n.p.m. | II strefa<br>450 - 600<br>m n.p.m. | I, III strefa<br>600 - 900<br>m n.p.m. |        |       |
| [m]   | [kg]  | [m2]  | [m2]                                   | [m2]                               | [m2]                                   | [daNm] | [daN] |
| 6   | 50  | 1,19  | 0,95                                   | 0,77                               | 0,50                                   | 907    | 225   |
| 7   |   | 0,81  | 0,62                                   | 0,47                               | 0,27                                   | 906    | 220   |
| 8   |   | 0,51  | 0,37                                   | 0,25                               | 0,09                                   | 909    | 222   |
| 9   |   | 0,29  | 0,17                                   | 0,07                               | -                                      | 897    | 195   |
| 10  |   | 0,17  | -                                      | -                                  | -                                      | 959    | 189   |

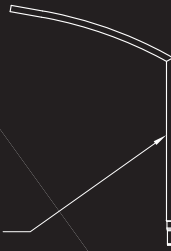


# CASSIOPEE P S

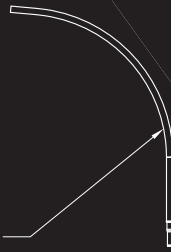
CASSIOPEE KC S



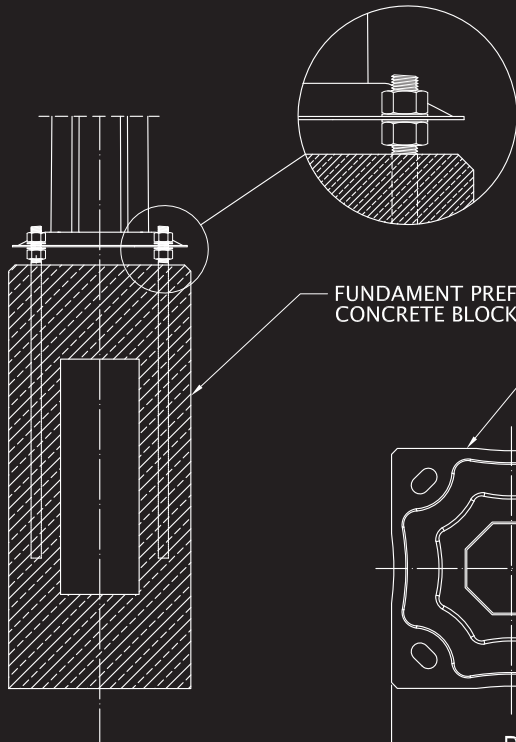
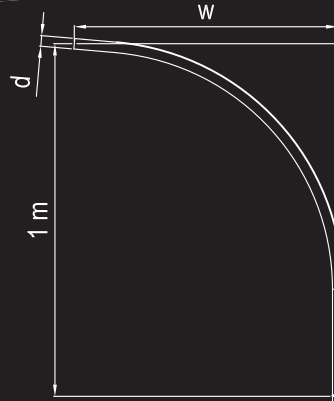
CASSIOPEE KCC S



CASSIOPEE OC S

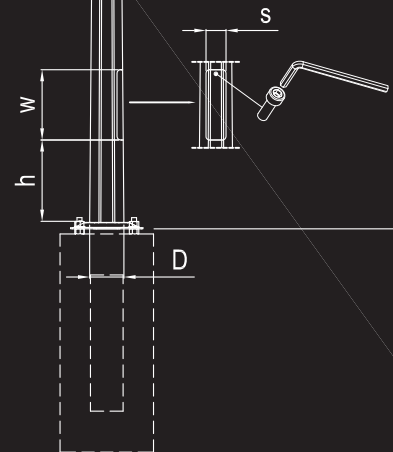
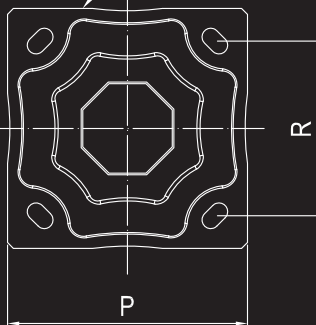


TYPY WYSIEGNIKÓW  
BRACKET TYPES



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# CASSIOPEE P S

OŚMIOKĄTNA STALOWA KOLUMNA OŚWIETLENIOWA  
Z POJEDYNCZYM WYSIĘGNIKIEM RUROWYM  
OCTAGONAL STEEL LIGHTING COLUMN  
WITH SINGLE TUBULAR BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

| H   | w   | d    | D    | W    | s    | h    | P / R           |      |                |      |
|-----|-----|------|------|------|------|------|-----------------|------|----------------|------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]            | [mm] | [cm]           | [mm] |
| 7   | 1,5 | 60   | 160  | 400  | 95   | 500  | 271<br>/<br>200 | M18  | 100<br>/<br>30 | 1000 |
| 8   |     |      |      |      |      |      |                 |      |                | 1200 |
| 9   |     |      |      |      |      |      |                 |      |                |      |
| 10  |     |      |      |      |      |      |                 |      |                |      |

Standardowa wysokość wysięgnika 1 m  
Standard height of the bracket 1 m

Tabela z wynikami obciążeń / Maximum load

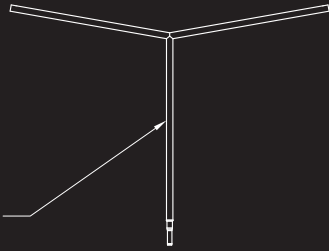
|     | Kg   |                                    |  |                                    |  | M      | T     |
|-----|------|------------------------------------|--|------------------------------------|--|--------|-------|
|     |      | P1                                 | P2                                     | P3                                 | P4                                     |        |       |
|     |      | I, III strefa<br>< 300<br>m n.p.m. | I, III strefa<br>300 - 450<br>m n.p.m. | II strefa<br>450 - 600<br>m n.p.m. | I, III strefa<br>600 - 900<br>m n.p.m. | [daNm] | [daN] |
| [m] | [kg] | [m2]                               | [m2]                                   | [m2]                               | [m2]                                   |        |       |
| 7   | *15  | 0,52                               | 0,41                                   | 0,32                               | 0,19                                   | 787    | 197   |
| 8   |      | 0,41                               | 0,32                                   | 0,23                               | 0,12                                   | 933    | 216   |
| 9   |      | 0,32                               | 0,22                                   | 0,12                               | -                                      | 923    | 191   |
| 10  |      | 0,19                               | 0,06                                   | -                                  | -                                      | 933    | 180   |

\* Maks. waga jednej oprawy  
\* Max. weight of one luminary

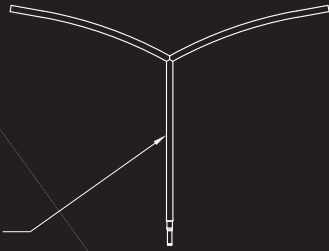


# CASSIOPEE P D

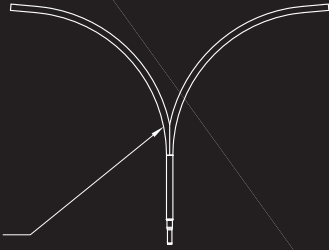
CASSIOPEE KC D



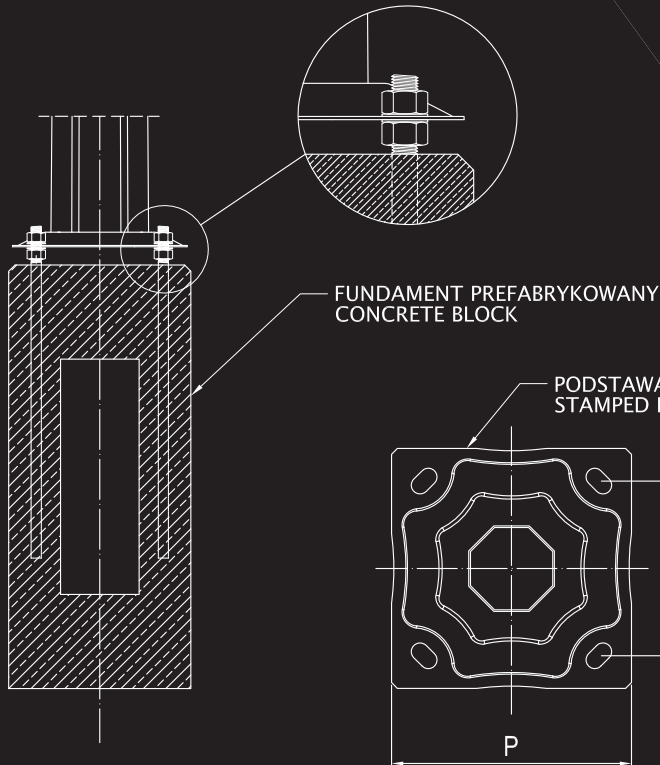
CASSIOPEE KCC D



CASSIOPEE OC D

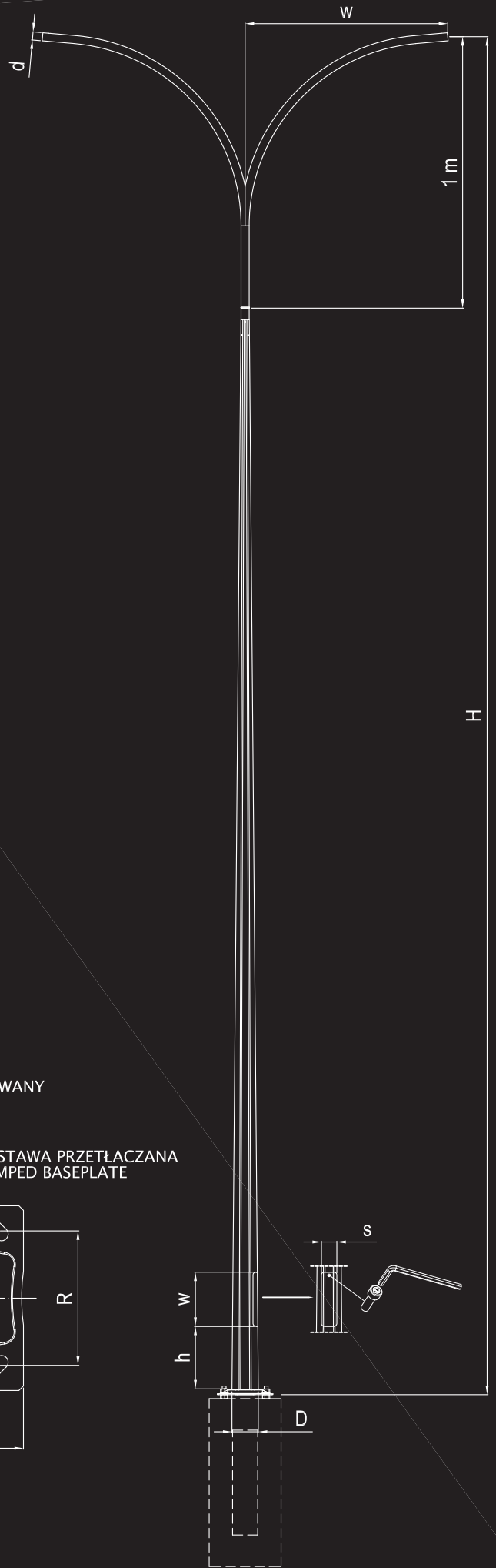


TYPY WYSIĘGNIKÓW  
BRACKET TYPES



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE





# CASSIOPEE P D



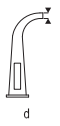

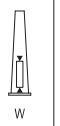
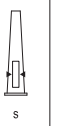
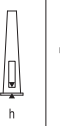
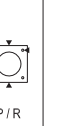
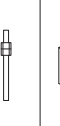
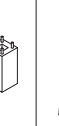

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing




Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

|  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
| [m]   | [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 7   | 1,5   | 60  | 160   | 400   | 95  | 500   | 271   | M18   | 100   | 1000  |
| 8   |   |   |   |   |   |   | /   |   | /   |   |
| 9   |   |   |   |   |   |   | 412   |   | 100   |   |
|   |   |   |   |   |   |   | 300   | M24   | 43  | 1200  |

Standardowa wysokość wysięgnika 1 m  
Standard height of the bracket 1 m

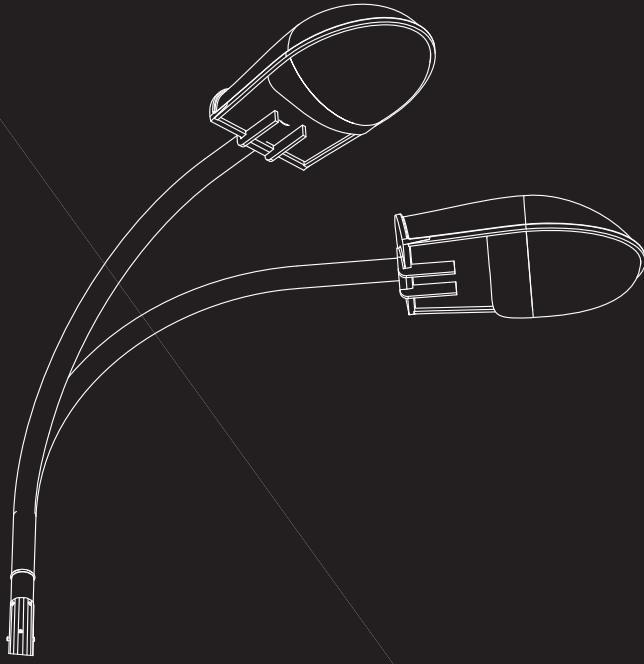
Tabela z wynikami obciążeń / Maximum load

|  |  |  |                   |                   |                   | M      | T     |
|---|---|---|-------------------|-------------------|-------------------|--------|-------|
|   |   | P1  | P2                | P3                | P4                |        |       |
| [m]   | [kg]  | [m <sup>2</sup> ]   | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [daNm] | [daN] |
| 7   | *15   | 0,38  | 0,27              | 0,19              | 0,07              | 964    | 225   |
| 8   |   | 0,22  | 0,13              | 0,07              | -                 | 961    | 199   |
| 9   |   | 0,16  | 0,10              | -                 | -                 | 1162   | 220   |

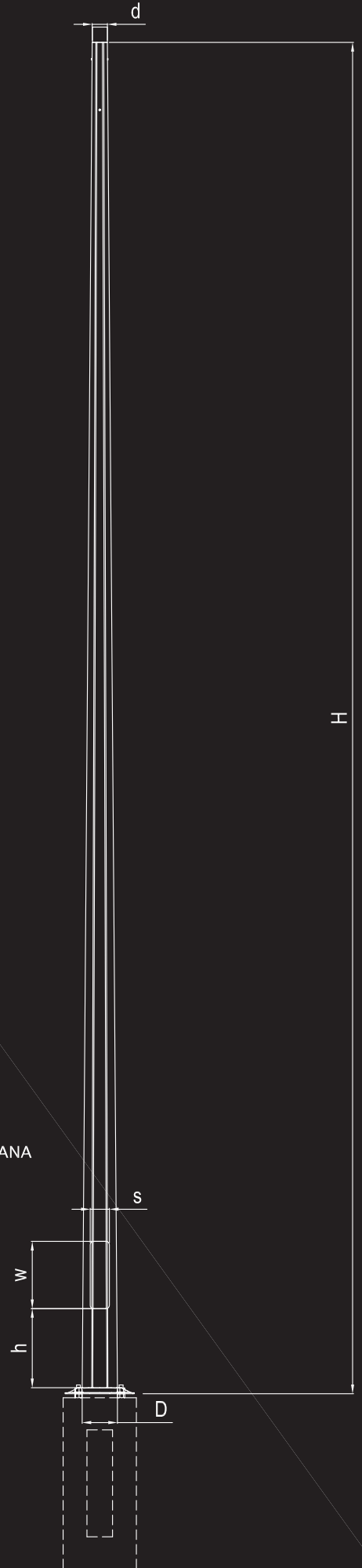
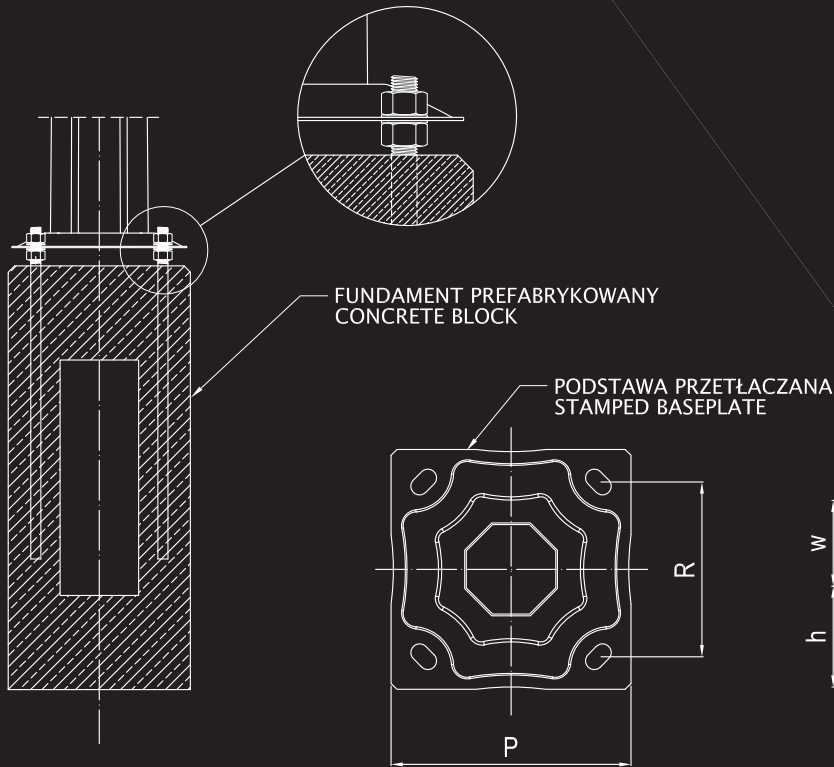
\* Maks. waga jednej oprawy  
\* Max. weight of one luminary



# GALAXIE P



PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



# GALAXIE P

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

| [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm]     | [mm] |
|-----|------|------|------|------|------|-----------|------|----------|------|
| 5   | 60   | 195  | 400  | 110  | 500  | 412 / 300 | M24  | 100 / 43 | 800  |
| 6   |      |      |      |      |      |           |      |          | 1000 |
| 7   |      |      |      |      |      |           |      |          | 1200 |
| 8   |      |      |      |      |      |           |      |          | 1500 |
| 9   |      |      |      |      |      |           |      |          | 1200 |
| 10  | 62   | 195  | 400  | 110  | 500  | 412 / 300 | M24  | 120 / 43 | 1500 |
| 9   |      |      |      |      |      |           |      |          | 1200 |
| 10  |      |      |      |      |      |           |      |          | 1500 |
| 11  |      |      |      |      |      |           |      |          | 1700 |
| 12  |      |      |      |      |      |           |      | 150 / 43 | 1700 |

Tabela z wynikami obciążeń / Maximum load

|     |      |                              |                                  |                              |                                  | M      | T     |
|-----|------|------------------------------|----------------------------------|------------------------------|----------------------------------|--------|-------|
|     |      | I, III strefa < 300 m n.p.m. | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |        |       |
| [m] | [kg] | [m2]                         | [m2]                             | [m2]                         | [m2]                             | [daNm] | [daN] |
| 5   | 50   | 2,26                         | 1,86                             | 1,54                         | 1,09                             | 1093   | 286   |
| 6   |      | 1,58                         | 1,27                             | 1,03                         | 0,70                             | 1093   | 267   |
| 7   |      | 1,10                         | 0,86                             | 0,68                         | 0,41                             | 1091   | 258   |
| 8   |      | 0,75                         | 0,56                             | 0,41                         | 0,20                             | 1091   | 258   |
| 9   |      | 0,48                         | 0,33                             | 0,20                         | -                                | 1103   | 265   |
| 10  | 0,26 | 0,13                         | -                                | -                            | 1093                             | 232    |       |
| 9   | 50   | 1,27                         | 0,99                             | 0,77                         | 0,44                             | 1767   | 330   |
| 10  |      | 0,93                         | 0,70                             | 0,51                         | 0,24                             | 1764   | 331   |
| 11  |      | 0,67                         | 0,46                             | 0,31                         | 0,07                             | 1770   | 337   |
| 12  |      | 0,43                         | 0,27                             | 0,12                         | -                                | 1770   | 294   |



# ORION P S

ORION KC S

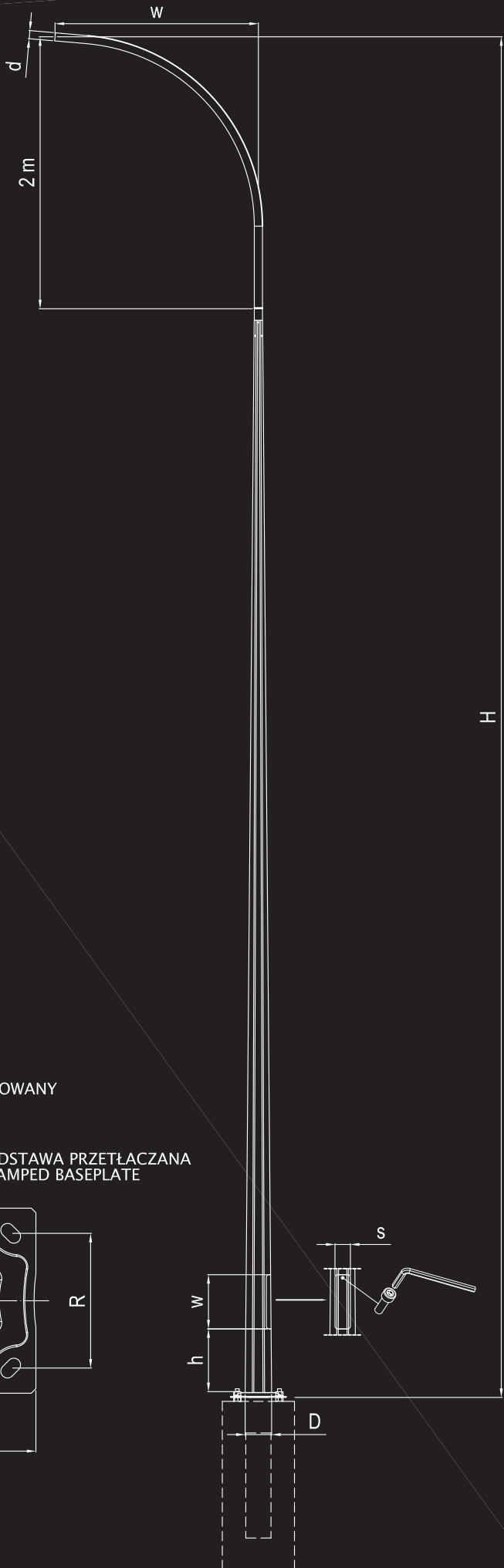
ORION KCC S

ORION OC S

TYPY WYSIĘGNIKÓW  
BRACKET TYPES

FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# ORION P S

OŚMIOKĄTNA STALOWA KOLUMNA OŚWIETLENIOWA  
Z POJEDYNCZYM WYSIĘGNIKIEM RUROWYM  
OCTAGONAL STEEL LIGHTING COLUMN  
WITH SINGLE TUBULAR BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)

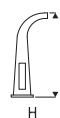
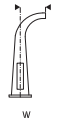
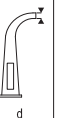
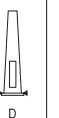
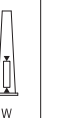


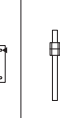
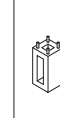


Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO

Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette




Tabela z geometrią słupa / Pole dimensions

|  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
| [m]   | [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 7   | 1,5   | 60  | 195   | 400   | 110   | 500   | 412 / 300   | M24   | 100 / 43  | 800   |
| 8   |   |   |   |   |   |   |   |   |   | 1000  |
| 9   |   |   |   |   |   |   |   |   |   | 1000  |
| 10  |   |   |   |   |   |   |   |   | 120 / 43  | 1200  |
| 11  |   |   |   |   |   |   |   |   | 150 / 43  | 1200  |
| 12  |   |   |   |   |   |   |   |   | 150 / 43  | 1500  |

Standardowa wysokość wysięgnika 2 m

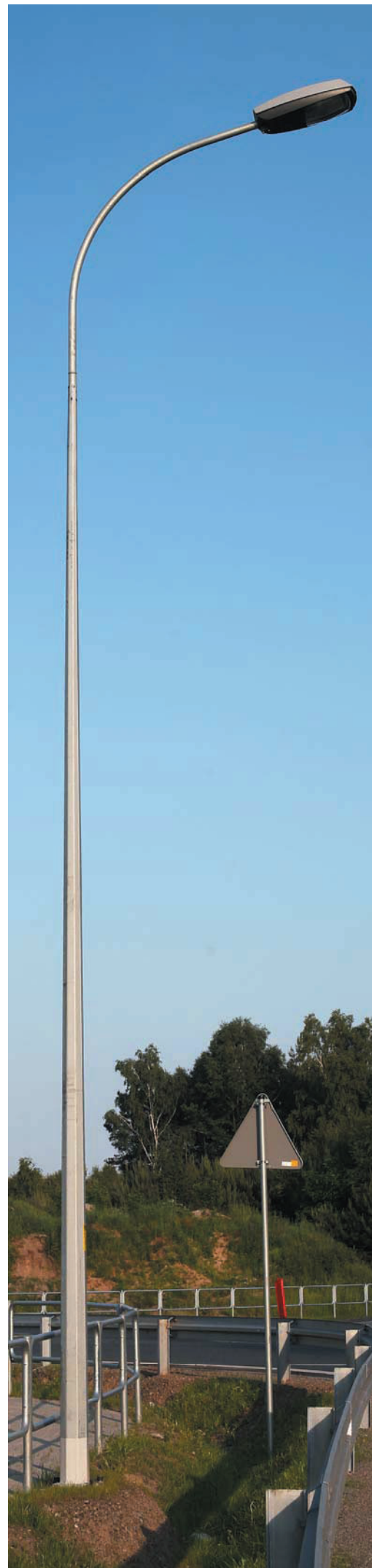
Standard height of the bracket 2 m

Tabela z wynikami obciążeń / Maximum load

|  |  |  |                   |                   |                   | M      | T     |
|---|---|---|-------------------|-------------------|-------------------|--------|-------|
|   |   | P1  | P2                | P3                | P4                |        |       |
| [m]   | [kg]  | [m <sup>2</sup> ]   | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [m <sup>2</sup> ] | [daNm] | [daN] |
| 7   | *15   | 0,43  | 0,35              | 0,28              | 0,19              | 748    | 199   |
| 8   |   | 0,41  | 0,33              | 0,26              | 0,17              | 952    | 228   |
| 9   |   | 0,38  | 0,30              | 0,24              | 0,14              | 1174   | 257   |
| 10  |   | 0,36  | 0,27              | 0,17              | -                 | 1280   | 274   |
| 11  |   | 0,26  | 0,15              | 0,07              | -                 | 1279   | 241   |
| 12  |   | 0,34  | 0,27              | 0,21              | -                 | 1757   | 324   |

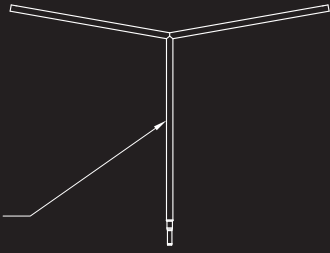
\* Maks. waga jednej oprawy

\* Max. weight of one luminary

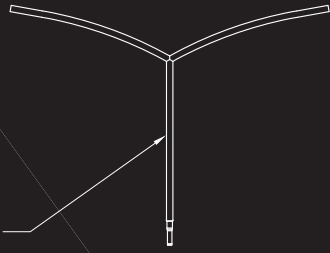


# ORION P D

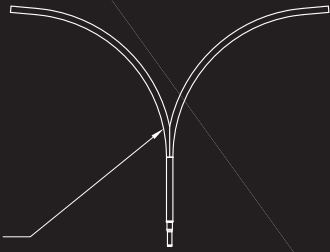
ORION KC D



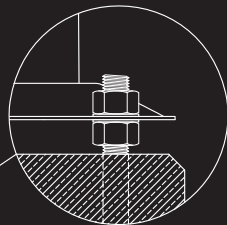
ORION KCC D



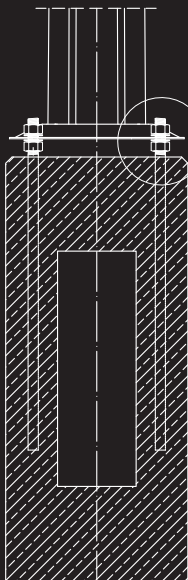
ORION OC D



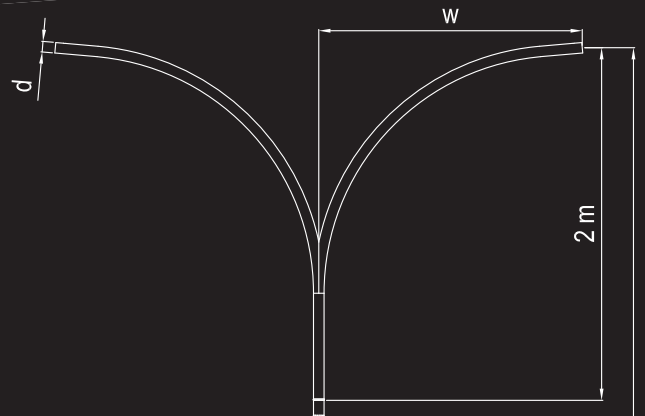
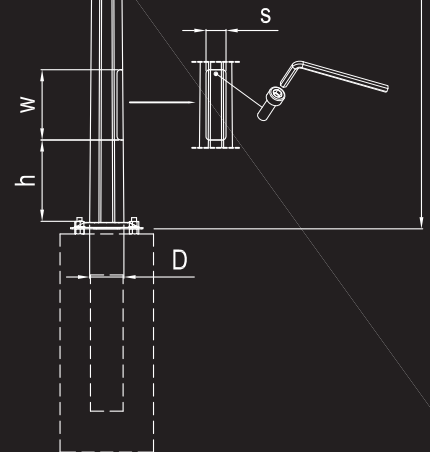
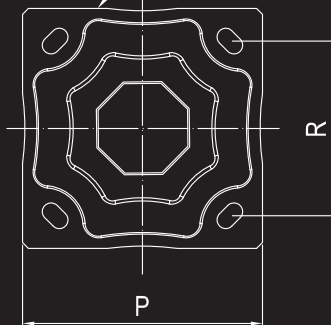
TYPY WYSIEGNIKÓW  
BRACKET TYPES



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK



PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# ORION P D

OŚMIOKĄTNA STALOWA KOLUMNĄ OŚWIETLENIOWĄ  
Z PODWÓJNYM WYSIĘGNIKIEM RUROWYM  
OCTAGONAL STEEL LIGHTING COLUMN  
WITH DOUBLE TUBULAR BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)


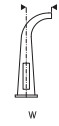
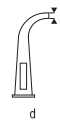
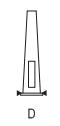


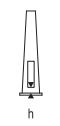

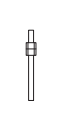

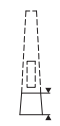
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO

Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette




Tabela z geometrią słupa / Pole dimensions

|  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
| [m]   | [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 7   | 1,5   | 60  | 195   | 400   | 110   | 500   | 412 / 300   | M24   | 100 / 43  | 800   |
| 8   |   |   |   |   |   |   |   |   |   | 1000  |
| 9   |   |   |   |   |   |   |   |   |   |   |
| 10  |   |   |   |   |   |   |   |   | 1200  |   |
| 11  |   |   |   |   |   |   |   |   |   |   |
| 12  |   |   |   |   |   |   |   |   | 150 / 43  | 1500  |

Standardowa wysokość wysięgnika 2 m

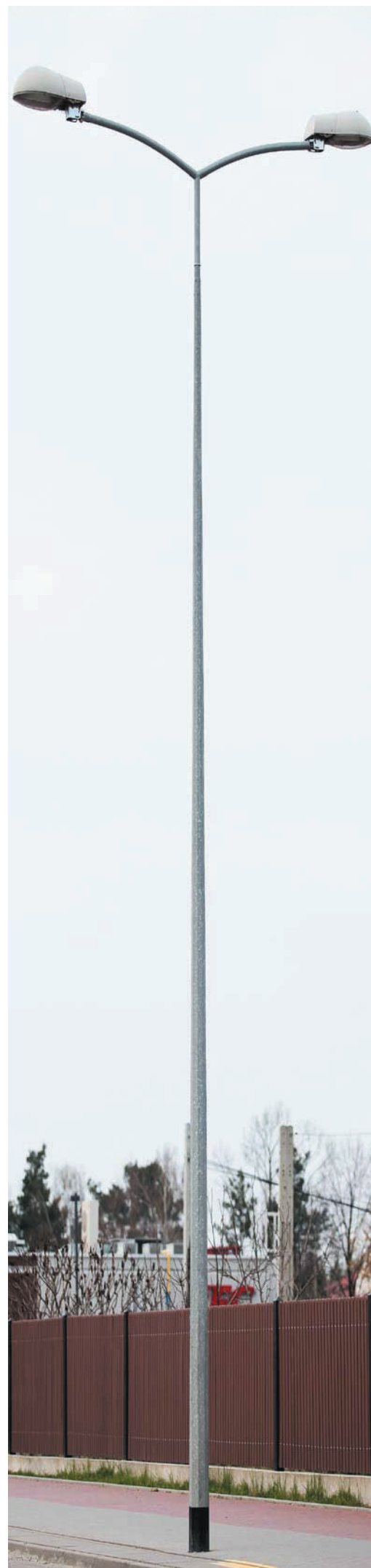
Standard height of the bracket 2 m

Tabela z wynikami obciążeń / Maximum load

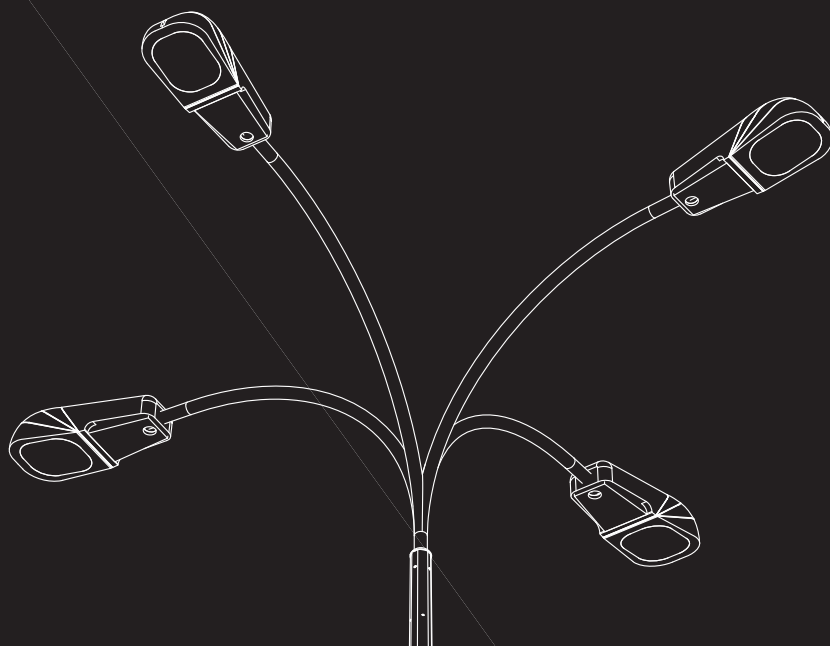
|  |  |  |      |      |      | M      | T     |
|---|---|---|------|------|------|--------|-------|
|   |   | P1  | P2   | P3   | P4   |        |       |
| [m]   | [kg]  | [m2]  | [m2] | [m2] | [m2] | [daNm] | [daN] |
| 7   | *15   | 0,38  | 0,29 | 0,23 | 0,14 | 1118   | 256   |
| 8   |   | 0,34  | 0,27 | 0,20 | 0,12 | 1385   | 288   |
| 9   |   | 0,26  | 0,19 | 0,13 | -    | 1458   | 296   |
| 10  |   | 0,16  | 0,10 | -    | -    | 1463   | 262   |
| 11  |   | 0,27  | 0,16 | 0,08 | -    | 1763   | 283   |
| 12  |   | 0,15  | 0,06 | -    | -    | 1745   | 286   |

\* Maks. waga jednej oprawy

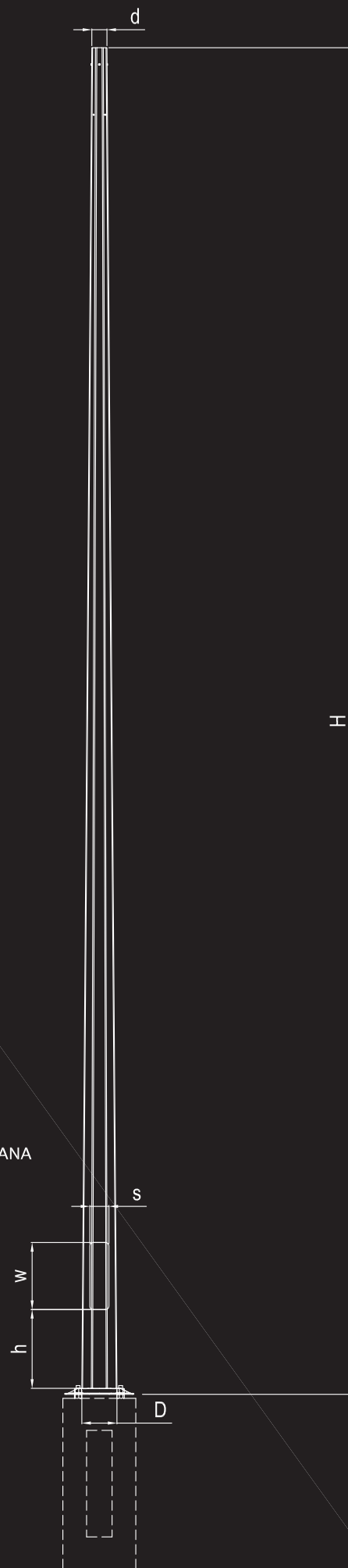
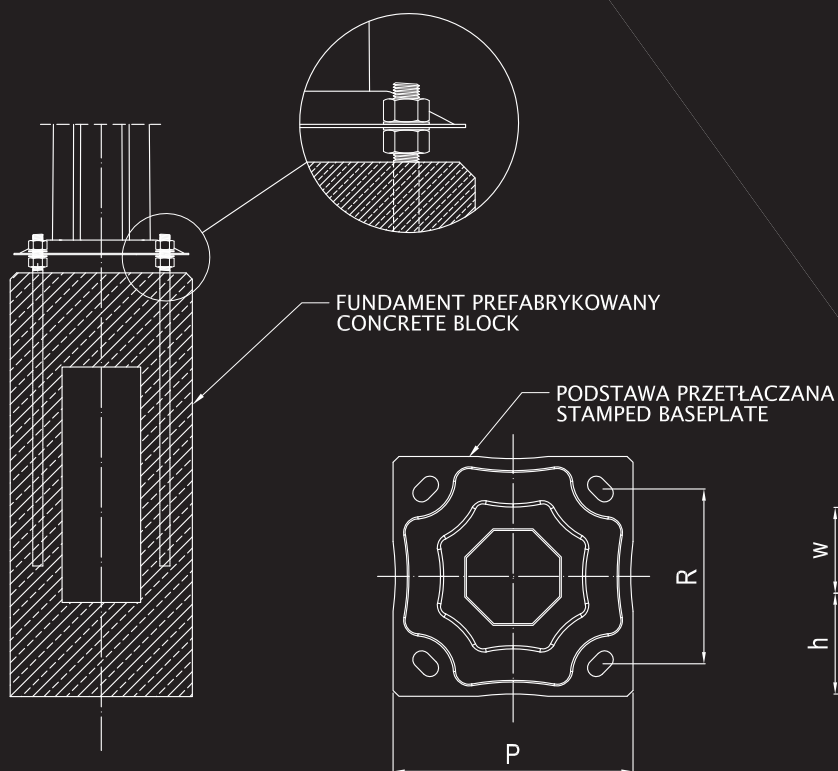
\* Max. weight of one luminary



# SEXTANT P



PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION





# SEXTANT P

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions










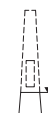



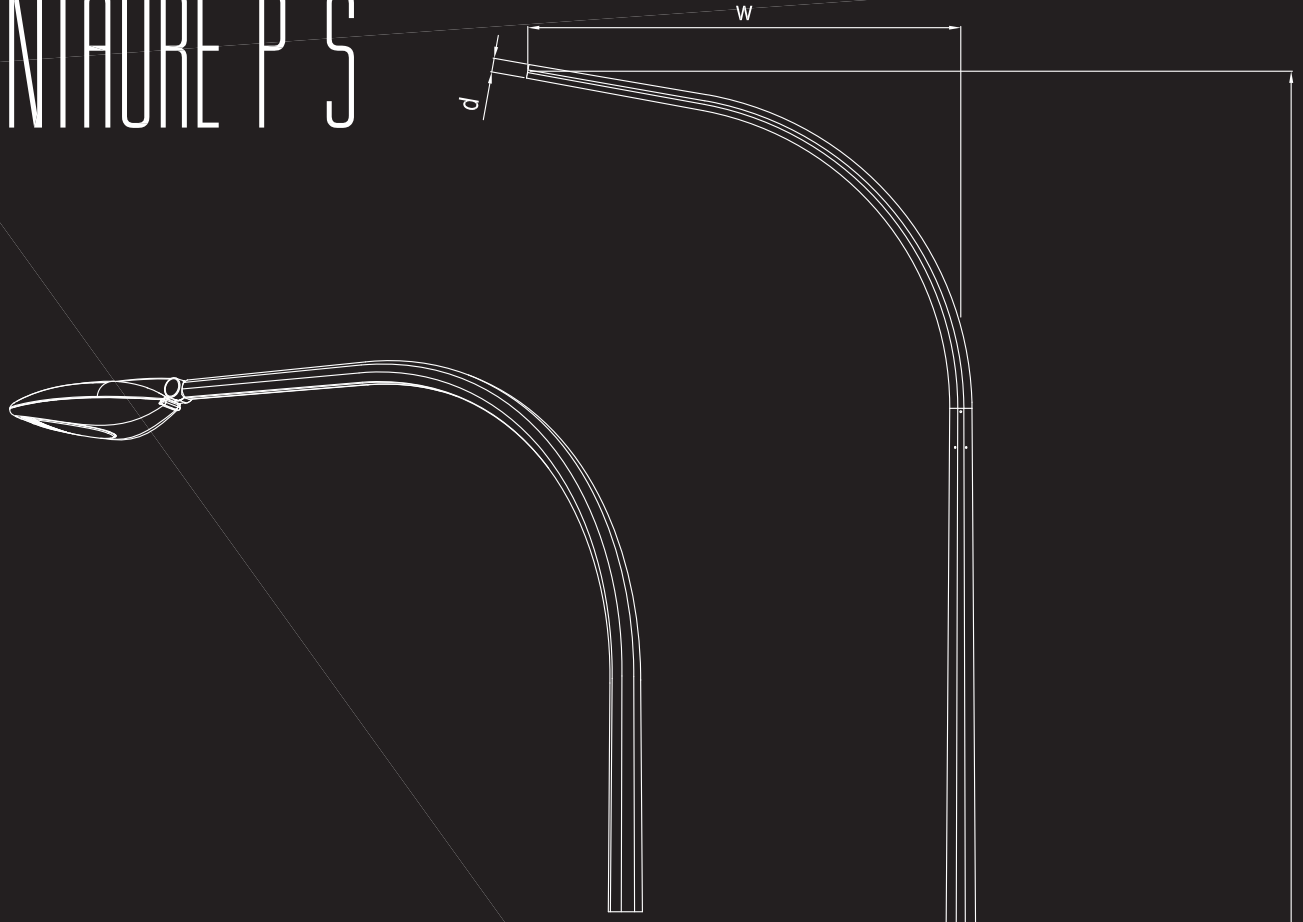
|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 6   | 90  | 210   | 400   | 110   | 500   | 412 / 300   | M24   | 100 / 43  | 1000  |
| 7   |   |   |   |   |   |   |   |   | 1200  |
| 8   |   |   |   |   |   |   |   |   | 1200  |
| 9   |   |   |   |   |   |   |   |   | 1200  |
| 10  |   |   |   |   |   |   |   |   | 1500  |
| 11  |   |   |   |   |   |   |   |   | 1500  |
| 12  | 1700  |   |   |   |   |   |   |   |   |

Tabela z wynikami obciążeń / Maximum load

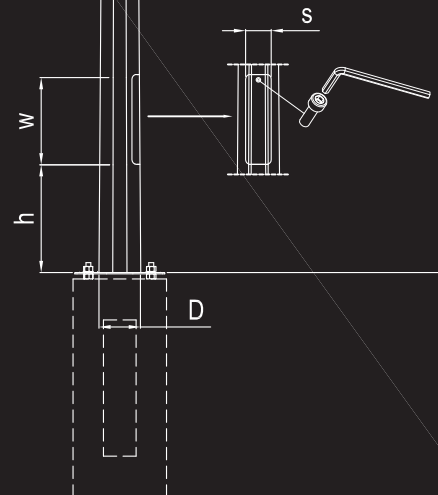
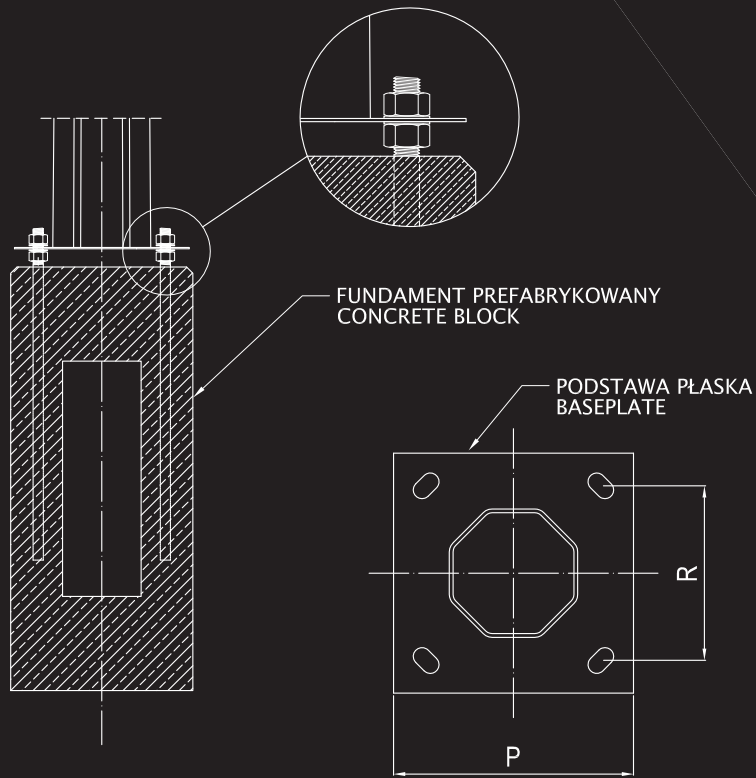
|  |  |  |                                  |                              |                                  | M      | T     |
|---|---|---|----------------------------------|------------------------------|----------------------------------|--------|-------|
|   |   | I, III strefa < 300 m n.p.m.  | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |        |       |
| [m]   | [kg]  | [m2]  | [m2]                             | [m2]                         | [m2]                             | [daNm] | [daN] |
| 6   | 80  | 1,98  | 1,60                             | 1,30                         | 0,88                             | 1345   | 318   |
| 7   |   | 1,39  | 1,09                             | 0,86                         | 0,53                             | 1340   | 305   |
| 8   |   | 0,95  | 0,72                             | 0,53                         | 0,27                             | 1343   | 303   |
| 9   |   | 0,62  | 0,42                             | 0,28                         | 0,06                             | 1359   | 309   |
| 10  |   | 1,26  | 0,96                             | 0,73                         | 0,38                             | 2357   | 411   |
| 11  |   | 0,89  | 0,63                             | 0,41                         | 0,11                             | 2276   | 405   |
| 12  | 0,59  | 0,37  | 0,19                             | -                            | 2269                             | 357    |       |



# CENTAURE P S



PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



# CENTAURE P S

OŚMIOKĄTNA STALOWA KOLUMNNA OŚWIETLENIOWA  
Z POJEDYNCZYM WYSIĘGNIKIEM OŚMIOKĄTNYM  
OCTAGONAL STEEL LIGHTING COLUMN  
WITH SINGLE OCTAGONAL BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

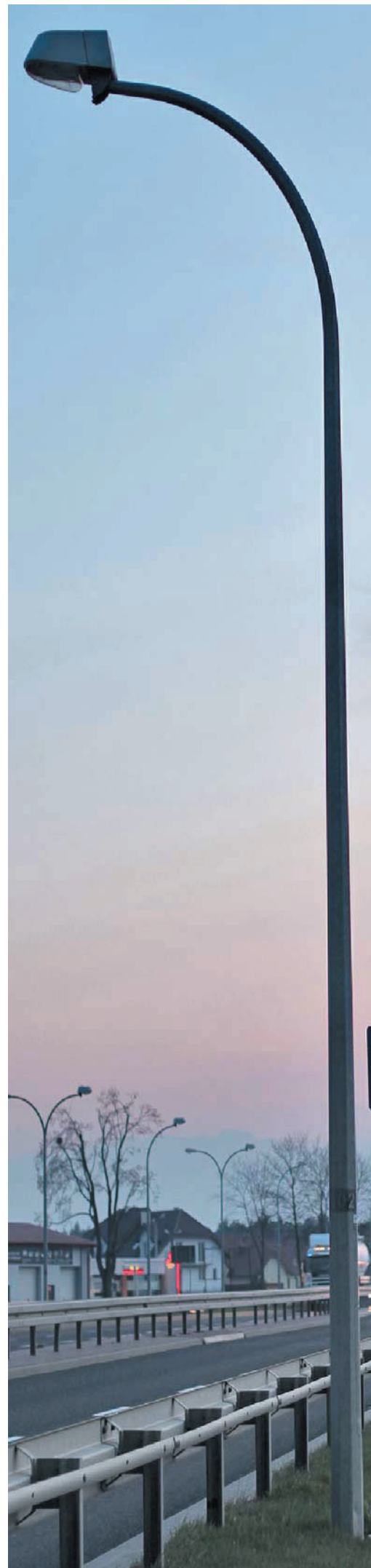
Tabela z geometrią słupa / Pole dimensions

| H   | w   | d    | D    | W    | s    | h    | P/R       |      |          |          |
|-----|-----|------|------|------|------|------|-----------|------|----------|----------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm]     | [mm]     |
| 8   | 1,5 | 60   | 191  | 400  | 110  | 500  | 420 / 300 | M24  | 100 / 43 | 1200     |
| 9   |     |      |      |      |      |      |           |      | 120 / 43 |          |
| 10  |     |      |      |      |      |      |           |      | 1500     |          |
| 11  |     |      |      |      |      |      |           |      |          | 150 / 43 |
| 12  |     |      |      |      |      |      |           |      |          | 1700     |
| 8   | 2   | 60   | 191  | 400  | 110  | 500  | 420 / 300 | M24  | 100 / 43 | 1200     |
| 9   |     |      |      |      |      |      |           |      | 120 / 43 |          |
| 10  |     |      |      |      |      |      |           |      | 1500     |          |
| 11  |     |      |      |      |      |      |           |      |          | 150 / 43 |
| 12  |     |      |      |      |      |      |           |      |          | 1700     |

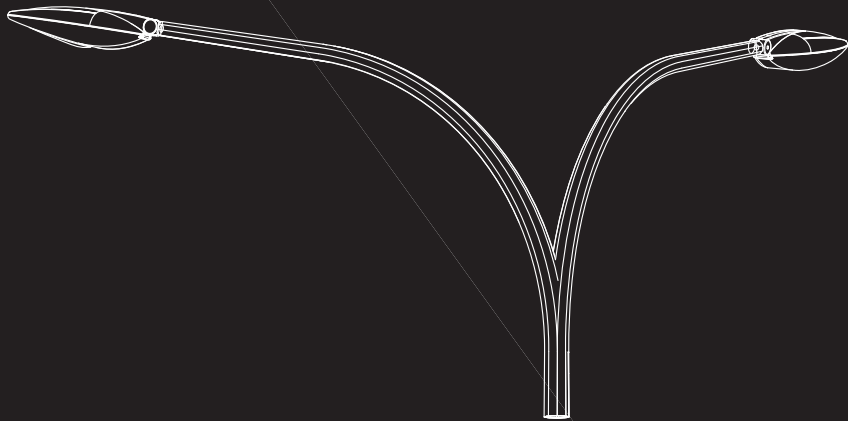
Tabela z wynikami obciążeń / Maximum load

|     | Kg   |      |      |      |      | M      | T     |
|-----|------|------|------|------|------|--------|-------|
|     |      | P1   | P2   | P3   | P4   |        |       |
| [m] | [kg] | [m2] | [m2] | [m2] | [m2] | [daNm] | [daN] |
| 8   | *15  | 1,30 | 1,05 | 0,83 | 0,48 | 1511   | 301   |
| 9   |      | 1,10 | 0,87 | 0,69 | 0,43 | 1812   | 331   |
| 10  |      | 0,91 | 0,71 | 0,54 | 0,31 | 1986   | 347   |
| 11  |      | 0,74 | 0,55 | 0,41 | 0,19 | 2169   | 365   |
| 12  |      | 0,57 | 0,41 | 0,26 | -    | 2128   | 366   |
| 8   | *15  | 1,05 | 0,83 | 0,67 | 0,42 | 1527   | 306   |
| 9   |      | 0,88 | 0,69 | 0,54 | 0,32 | 1729   | 325   |
| 10  |      | 0,73 | 0,55 | 0,41 | 0,21 | 1922   | 343   |
| 11  |      | 0,58 | 0,42 | 0,30 | 0,10 | 2104   | 362   |
| 12  |      | 0,44 | 0,30 | 0,18 | -    | 2088   | 317   |

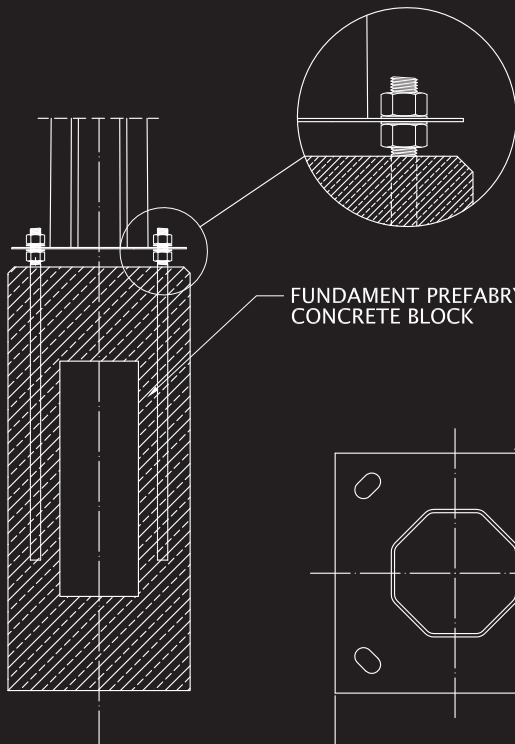
\* Maks. waga jednej oprawy  
\* Max. weight of one luminaire



# CENTAURE P D

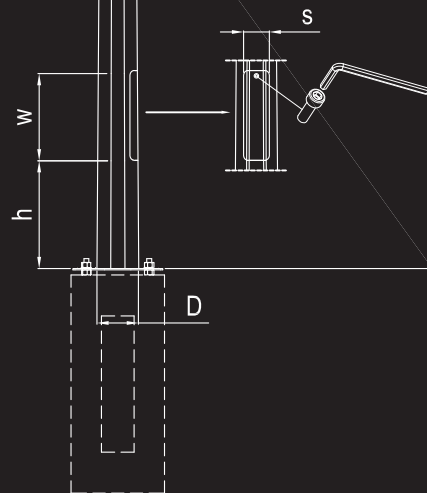
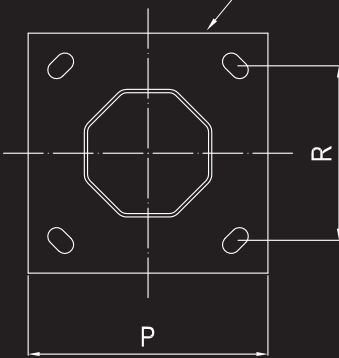


PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PŁASKA  
BASEPLATE



# CENTAURE P D

OŚMIOKĄTNA STALOWA KOLUMNĄ OŚWIETLENIOWĄ  
Z PODWÓJNYM WYSIĘGNIKIEM OŚMIOKĄTNYM  
OCTAGONAL STEEL LIGHTING COLUMN  
WITH DOUBLE OCTAGONAL BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)

Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO

Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

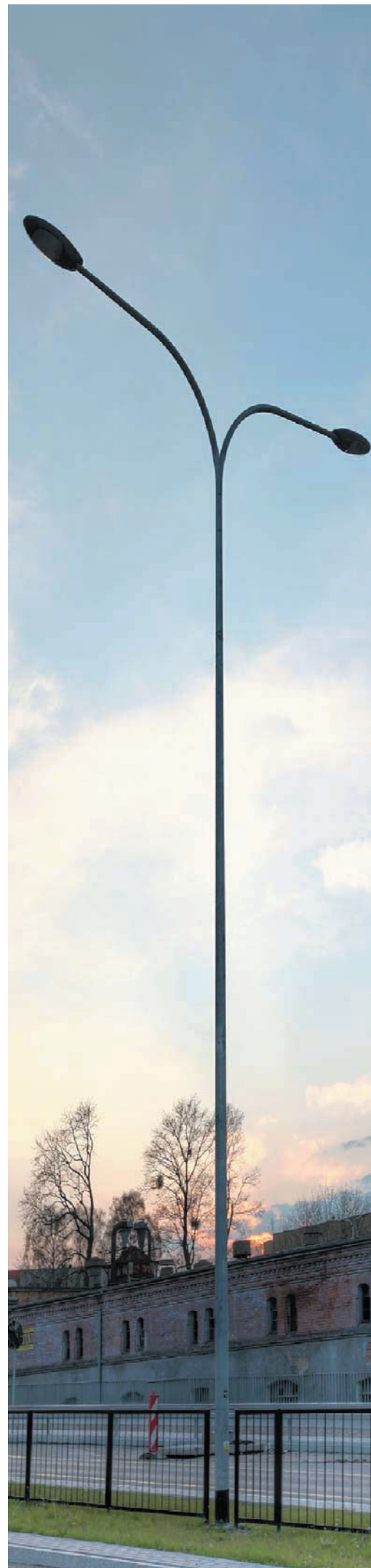
Tabela z geometrią słupa / Pole dimensions

| H   | w   | d    | D    | W    | s    | h    | P/R       |      |          |          |
|-----|-----|------|------|------|------|------|-----------|------|----------|----------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm]     | [mm]     |
| 8   | 1,5 | 60   | 191  | 400  | 110  | 500  | 420 / 300 | M24  | 100 / 43 | 1200     |
| 9   |     |      |      |      |      |      |           |      | 120 / 43 |          |
| 10  |     |      |      |      |      |      |           |      | 1500     |          |
| 11  |     |      |      |      |      |      |           |      |          | 150 / 43 |
| 12  |     |      |      |      |      |      |           |      |          | 1700     |
| 8   | 2   | 60   | 191  | 400  | 110  | 500  | 420 / 300 | M24  | 100 / 43 | 1200     |
| 9   |     |      |      |      |      |      |           |      | 120 / 43 |          |
| 10  |     |      |      |      |      |      |           |      | 1500     |          |
| 11  |     |      |      |      |      |      |           |      |          | 150 / 43 |
| 12  |     |      |      |      |      |      |           |      |          | 1700     |

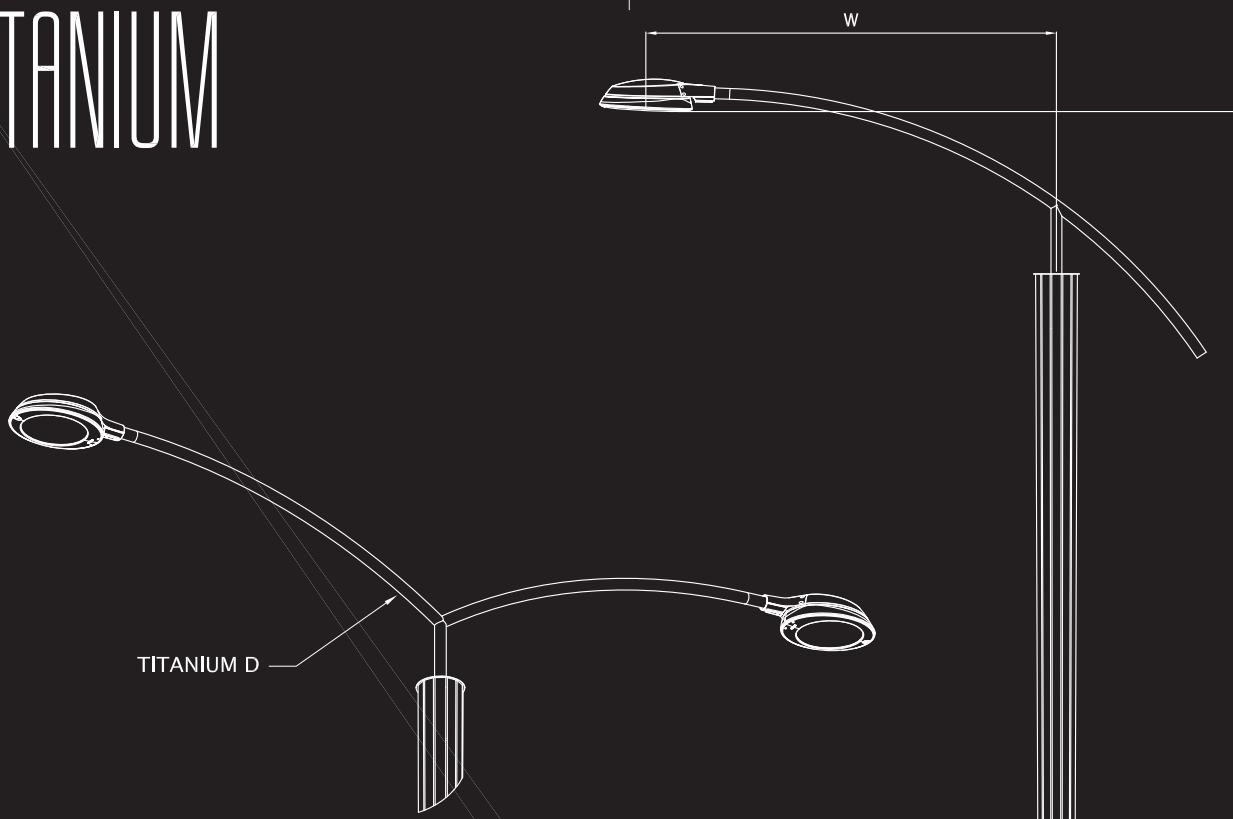
Tabela z wynikami obciążeń / Maximum load

|     | Kg   |      |      |      |      | M      | T     |
|-----|------|------|------|------|------|--------|-------|
|     |      | P1   | P2   | P3   | P4   |        |       |
| [m] | [kg] | [m2] | [m2] | [m2] | [m2] | [daNm] | [daN] |
| 8   | *15  | 1,02 | 0,80 | 0,62 | 0,37 | 2288   | 404   |
| 9   |      | 0,75 | 0,56 | 0,41 | 0,21 | 2273   | 389   |
| 10  |      | 0,54 | 0,39 | 0,26 | 0,08 | 2283   | 383   |
| 11  |      | 0,37 | 0,23 | 0,13 | -    | 2280   | 339   |
| 12  |      | 0,22 | 0,10 | -    | -    | 2264   | 336   |
| 8   | *15  | 0,94 | 0,73 | 0,55 | 0,30 | 2288   | 405   |
| 9   |      | 0,72 | 0,52 | 0,38 | 0,16 | 2350   | 398   |
| 10  |      | 0,42 | 0,28 | 0,16 | -    | 2163   | 375   |
| 11  |      | 0,31 | 0,17 | 0,07 | -    | 2275   | 341   |
| 12  |      | 0,16 | -    | -    | -    | 2268   | 317   |

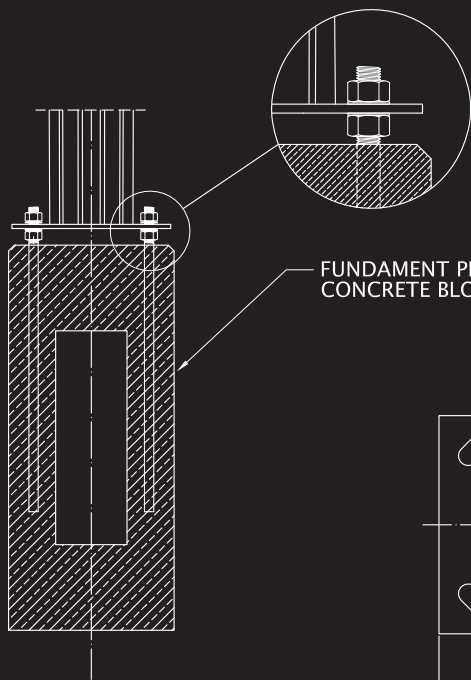
\* Maks. waga jednej oprawy  
\* Max. weight of one luminaire



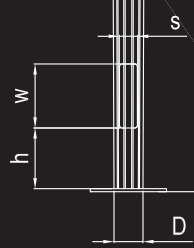
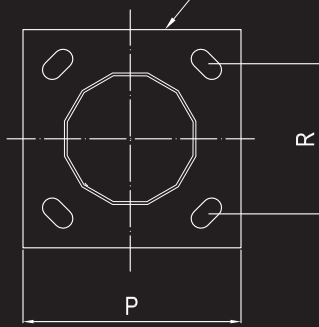
# TITANIUM



TITANIUM D



PODSTAWA PŁASKA  
BASEPLATE



# TITANIUM

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
 Galvanized steel (according to the norm EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
 Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

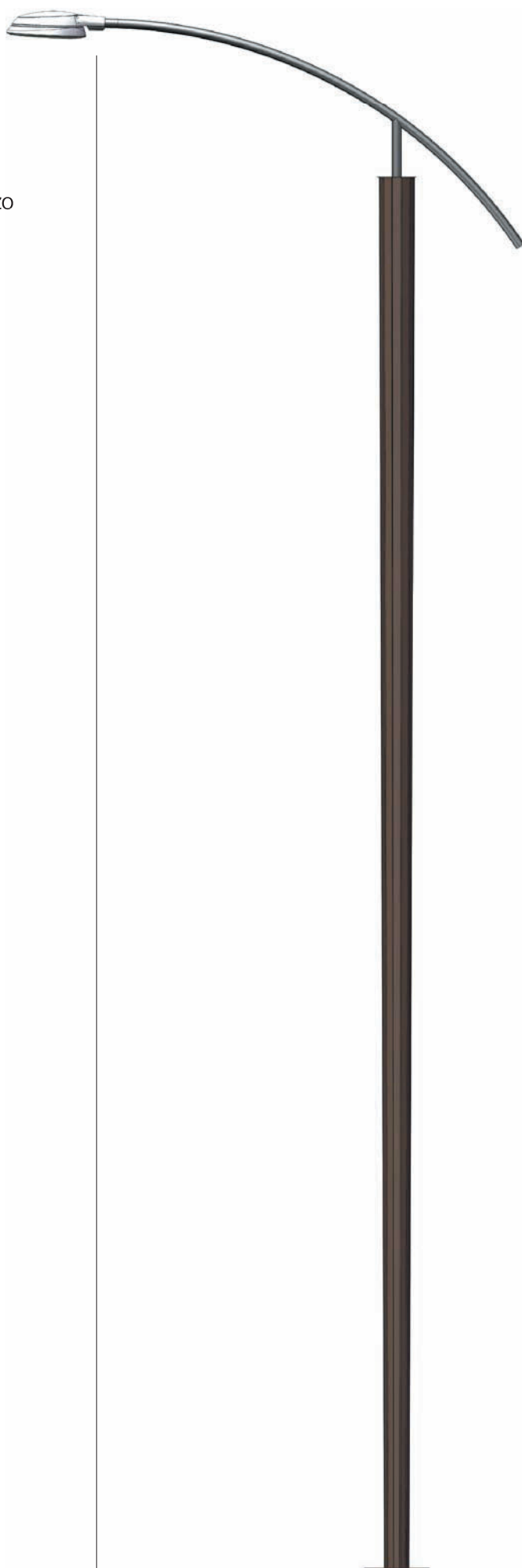
| H   | w   | d    | D    | W    | s    | h    | P/R       |      |          |      |
|-----|-----|------|------|------|------|------|-----------|------|----------|------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm]     | [mm] |
| 6   | 1;  | 60   | 160  | 400  | 100  | 500  | 250 / 200 | M18  | 100 / 30 | 1000 |
| 7   |     |      |      |      |      |      | 420 / 300 |      | M24      |      |
| 8   | 2   | 60   | 160  | 400  | 100  | 500  | 420 / 300 | M24  | 100 / 43 | 1200 |
| 9   |     |      |      |      |      |      |           |      | 120 / 43 |      |
| 10  |     |      |      |      |      |      |           |      | 1500     |      |

Tabela z wynikami obciążeń / Maximum loading

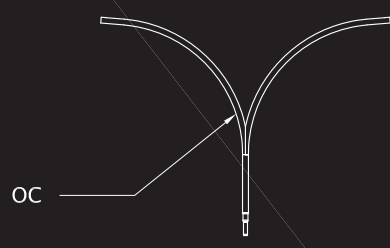
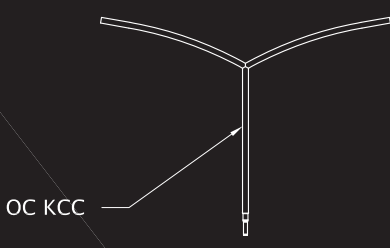
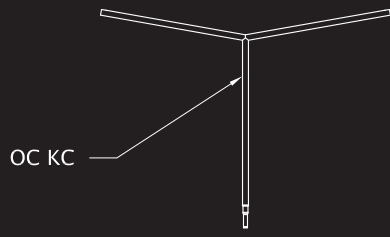
|            | H   | Kg   | Luminaire                    |                                  |                              |                                  | M      | T     |
|------------|-----|------|------------------------------|----------------------------------|------------------------------|----------------------------------|--------|-------|
|            |     |      | I, III strefa < 300 m n.p.m. | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |        |       |
|            | [m] | [kg] | [m2]                         | [m2]                             | [m2]                         | [m2]                             | [daNm] | [daN] |
| TITANIUM S | 6   | *15  | 0,53                         | 0,43                             | 0,35                         | 0,16                             | 646    | 168   |
|            | 7   |      | 0,42                         | 0,26                             | 0,14                         | -                                | 647    | 147   |
|            | 8   |      | 0,46                         | 0,38                             | 0,31                         | 0,20                             | 1232   | 241   |
|            | 9   |      | 0,43                         | 0,35                             | 0,28                         | 0,09                             | 1415   | 259   |
|            | 10  |      | 0,38                         | 0,23                             | 0,11                         | -                                | 1401   | 229   |
| TITANIUM D | 6   | *15  | 0,33                         | 0,23                             | 0,14                         | -                                | 690    | 173   |
|            | 7   |      | 0,16                         | 0,07                             | -                            | -                                | 686    | 153   |
|            | 8   |      | 0,60                         | 0,44                             | 0,32                         | 0,14                             | 1609   | 289   |
|            | 9   |      | 0,39                         | 0,25                             | 0,15                         | -                                | 1585   | 279   |
|            | 10  |      | 0,21                         | 0,10                             | -                            | -                                | 1568   | 246   |

\* Maks. waga jednej oprawy

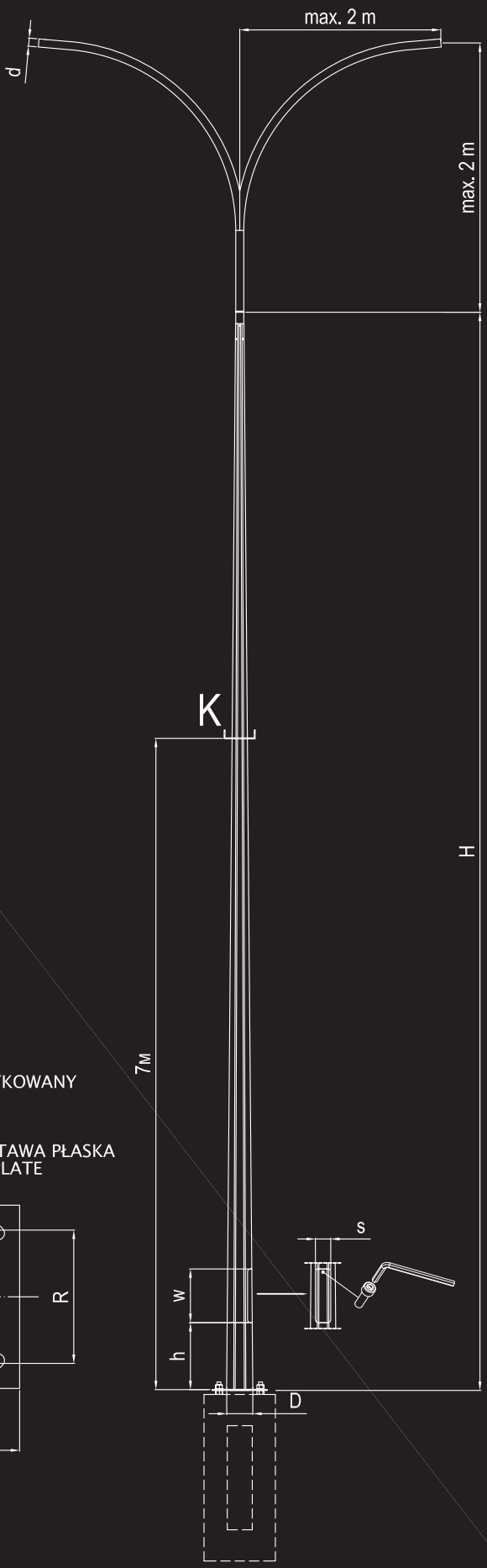
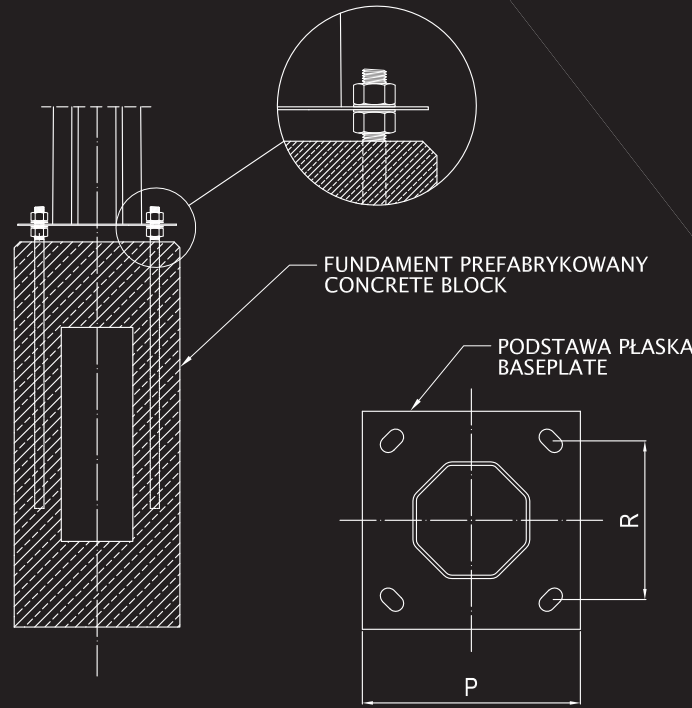
\* Max. weight of one luminary



# VALSK P 191/220



TYPY WYSIĘGNIKÓW  
BRACKET TYPES





# VALSK P 191/220

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Stalowe ośmiokątne słupy kablowe zaprojektowane są jako słupy przejściowe, krańcowe i kątowe z wysięgnikami do 2 metrów wysokości i wysięgiem do 2 metrów. Podwieszenie kabla na 7 metrach od powierzchni gruntu. Przyłożenie siły na wysokości większej niż 7 metrów wymaga dodatkowych obliczeń wytrzymałościowych. Podane parametry fundamentów są przyjęte dla średnich warunków gruntu. Dla konkretnego zapytania należy przygotować indywidualny projekt fundamentu.

Octagonal, steel lighting and cable poles (designed as suspension, angle and dead end poles) with bracket up to 2 metres height and up to 2 metres outreach.

Cable installation (force load) on 7 metres required.

Force load installation on different height available after preparing customized strength calculations.

Concrete block dimensions calculated for average ground characteristic.

Different ground specification required customized concrete block design.

Tabela z geometrią słupa / Pole dimensions







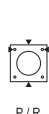




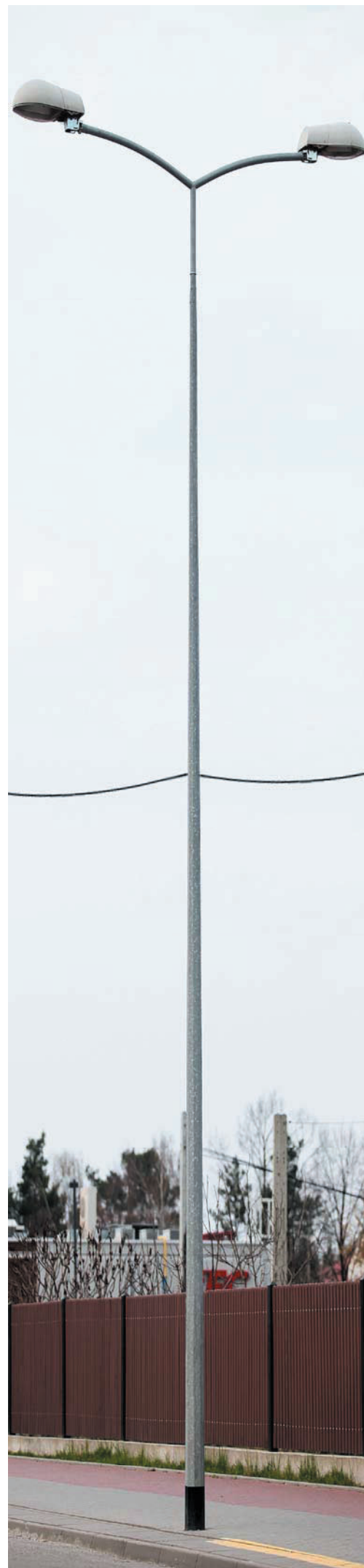
|             |  |  |  |  |  |  |  |  |  |
|-------------|---|---|---|---|---|---|---|---|---|
|             | [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  |
| VALSK P 191 | 7   | 76  | 191   | 400   | 110   | 500   | 420 / 300   | M27 x 1350  | 120 / 43  |
|             | 8   |   |   |   |   |   |   |   |   |
|             | 9   |   |   |   |   |   |   |   |   |
|             | 10  |   |   |   |   |   |   |   |   |
|             | 11  |   |   |   |   |   |   |   |   |
| VALSK P 220 | 7   | 103   | 220   | 600   | 130   | 440 / 300   | M33 x 1700  | F-2   | 150 / 43  |
|             | 8   |   |   |   |   |   |   |   |   |
|             | 9   |   |   |   |   |   |   |   |   |
|             | 10  |   |   |   |   |   |   |   |   |
|             | 11  |   |   |   |   |   |   |   |   |

Tabela z wynikami obciążeń / Maximum loading

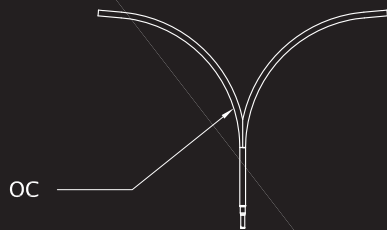
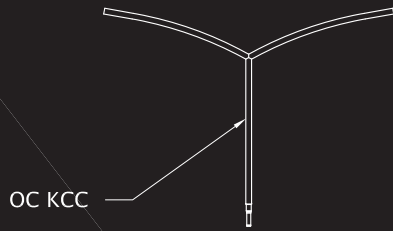
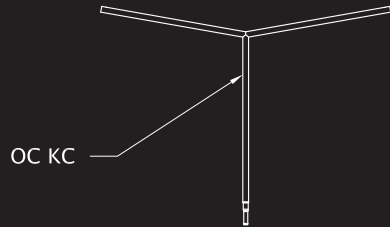
|             |  |  | K                            |                                  |                              |                                  | M     | T      |       |
|-------------|---|---|------------------------------|----------------------------------|------------------------------|----------------------------------|-------|--------|-------|
|             |   |   | I, III strefa < 300 m n.p.m. | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |       |        |       |
|             | [m]   | [kg]  | [m2]                         | [daN]                            | [daN]                        | [daN]                            | [daN] | [daNm] | [daN] |
| VALSK P 191 | 7   | *15   | 0,15                         | 170                              | 150                          | 110                              | 40    | 2310   | 436   |
|             | 8   |   |                              | 120                              | 100                          | 60                               | -     | 2319   | 383   |
|             | 9   |   |                              | 80                               | 60                           | -                                | -     | 2331   | 348   |
|             | 10  |   |                              | 40                               | -                            | -                                | -     | 2323   | 310   |
|             | 11  |   |                              | -                                | -                            | -                                | -     | -      | -     |
| VALSK P 220 | 7   | *15   | 0,15                         | 320                              | 300                          | 260                              | 200   | 3115   | 546   |
|             | 8   |   |                              | 300                              | 270                          | 220                              | 150   | 3332   | 564   |
|             | 9   |   |                              | 260                              | 230                          | 170                              | 70    | 3352   | 542   |
|             | 10  |   |                              | 210                              | 170                          | 100                              | -     | 3336   | 507   |
|             | 11  |   |                              | 160                              | 110                          | -                                | -     | 3344   | 468   |
| 12          | 100   | -   | -                            | -                                | 3342                         | 421                              |       |        |       |

\* Maks. waga jednej oprawy

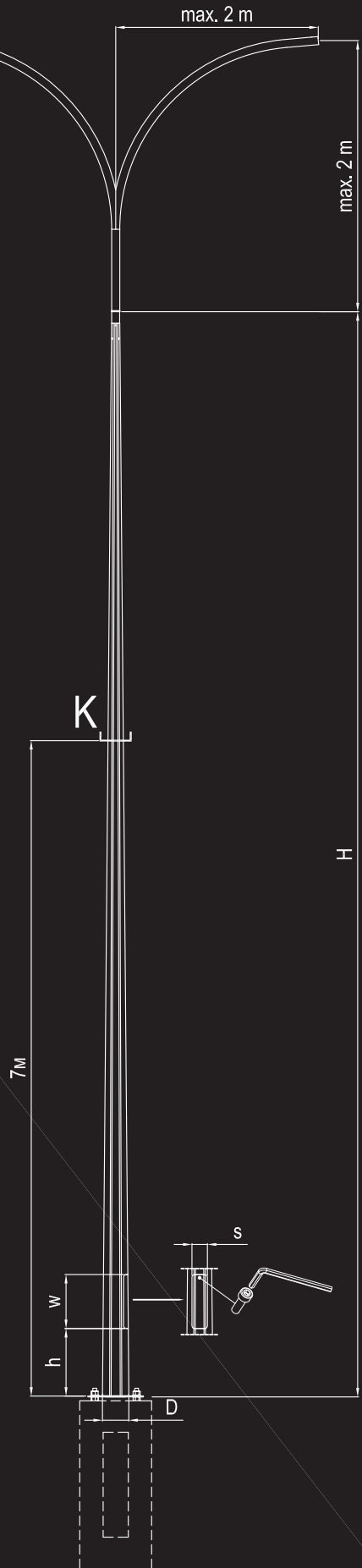
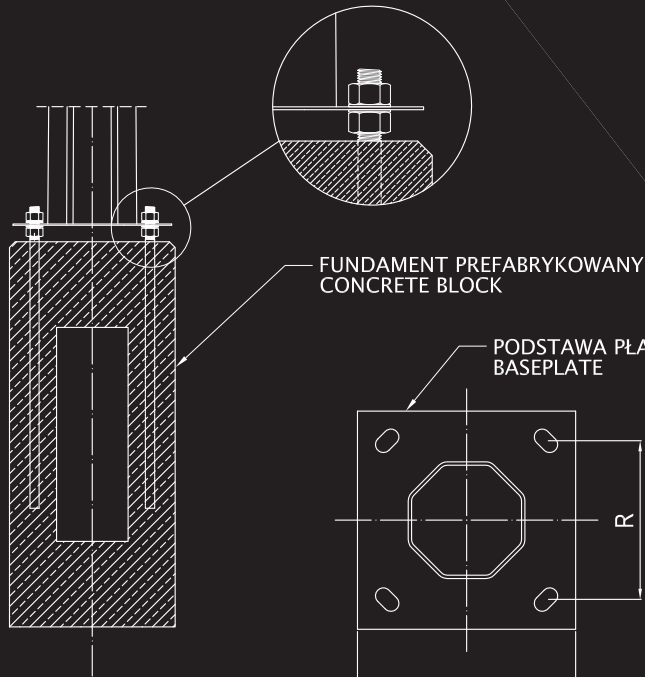
\* Max. weight of one luminary



# VALSK P 252/300



TYPY WYSIĘGNIKÓW  
BRACKET TYPES



# VALSK P 252/300

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Stalowe ośmiokątne słupy kablowe zaprojektowane są jako słupy przejściowe, krańcowe i kątowe z wysięgnikami do 2 metrów wysokości i wysięgiem do 2 metrów. Podwieszenie kabla na 7 metrach od powierzchni gruntu. Przyłożenie siły na wysokości większej niż 7 metrów wymaga dodatkowych obliczeń wytrzymałościowych. Podane parametry fundamentów są przyjęte dla średnich warunków gruntu. Dla konkretnego zapytania należy przygotować indywidualny projekt fundamentu.

Octagonal, steel lighting and cable poles (designed as suspension, angle and dead end poles) with bracket up to 2 metres height and up to 2 metres outreach.

Cable installation (force load) on 7 metres required.

Force load installation on different height available after preparing customized strength calculations.

Concrete block dimensions calculated for average ground characteristic. Different ground specification required customized concrete block design.

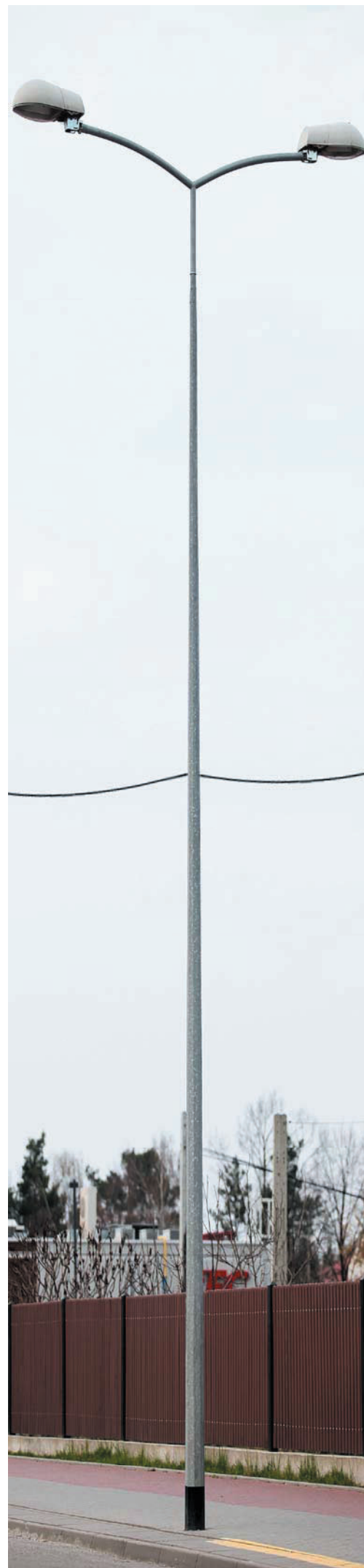
Tabela z geometrią słupa / Pole dimensions

|             | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm]       | [cm] |
|-------------|-----|------|------|------|------|------|-----------|------------|------|
| VALSK P 252 | 7   | 103  | 252  | 600  | 130  | 500  | 440 / 300 | M33 x 1700 | F-2  |
|             | 8   |      |      |      |      |      |           |            |      |
|             | 9   |      |      |      |      |      |           |            |      |
|             | 10  |      |      |      |      |      |           |            |      |
|             | 11  |      |      |      |      |      |           |            |      |
| VALSK P 300 | 7   | 103  | 300  | 600  | 145  | 500  | 540 / 400 | M33 x 1700 | F-5  |
|             | 8   |      |      |      |      |      |           |            |      |
|             | 9   |      |      |      |      |      |           |            |      |
|             | 10  |      |      |      |      |      |           |            |      |
|             | 11  |      |      |      |      |      |           |            |      |
| 12          |     |      |      |      |      |      |           |            |      |

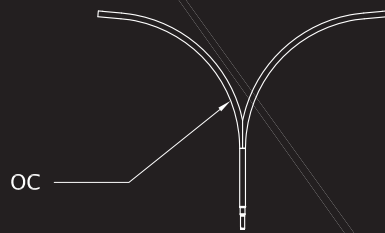
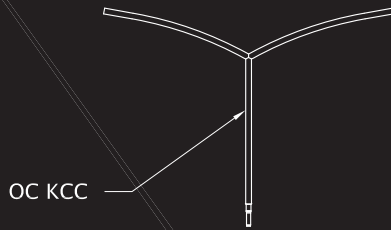
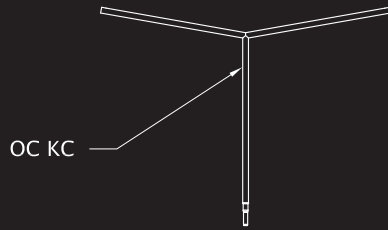
Tabela z wynikami obciążeń / Maximum loading

|             |     |      | K                            |                                  |                              |                                  | M     | T      |       |
|-------------|-----|------|------------------------------|----------------------------------|------------------------------|----------------------------------|-------|--------|-------|
|             |     |      | I, III strefa < 300 m n.p.m. | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |       |        |       |
|             | [m] | [kg] | [m <sup>2</sup> ]            | [daN]                            | [daN]                        | [daN]                            | [daN] | [daNm] | [daN] |
| VALSK P 252 | 7   | *15  | 0,15                         | 490                              | 470                          | 430                              | 370   | 2310   | 436   |
|             | 8   |      |                              | 470                              | 440                          | 390                              | 310   | 2319   | 383   |
|             | 9   |      |                              | 430                              | 400                          | 340                              | 240   | 4309   | 678   |
|             | 10  |      |                              | 380                              | 340                          | 280                              | 160   | 4565   | 702   |
|             | 11  |      |                              | 330                              | 280                          | 190                              | -     | 4598   | 674   |
| VALSK P 300 | 7   | *15  | 0,15                         | 740                              | 720                          | 680                              | 620   | 6123   | 1036  |
|             | 8   |      |                              | 720                              | 700                          | 650                              | 570   | 6241   | 1009  |
|             | 9   |      |                              | 690                              | 650                          | 590                              | 500   | 6284   | 979   |
|             | 10  |      |                              | 650                              | 600                          | 530                              | 420   | 6315   | 955   |
|             | 11  |      |                              | 600                              | 540                          | 460                              | 330   | 6341   | 921   |
| 12          | 540 | 460  | 380                          | 220                              | -                            | -                                |       |        |       |

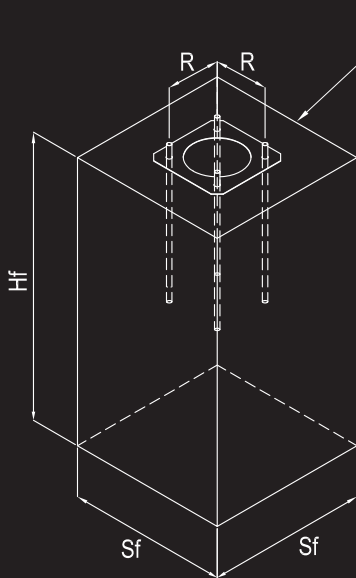
\* Maks. waga jednej oprawy  
\* Max. weight of one luminaire



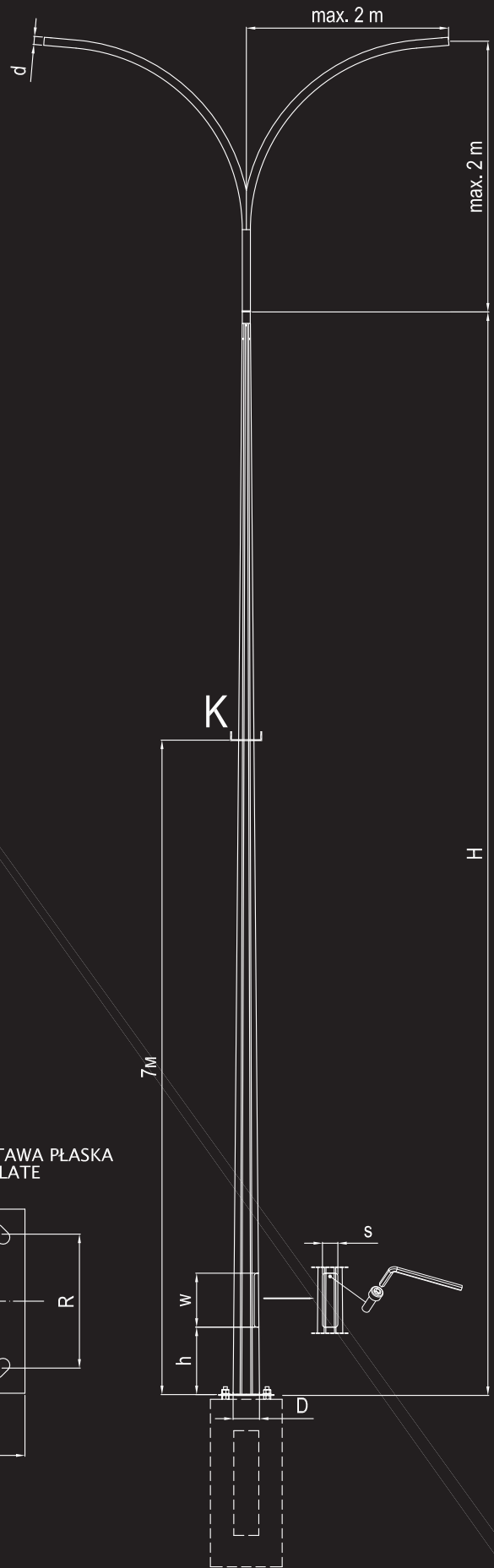
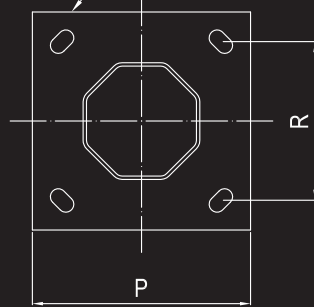
# VALSK P 333/370



TYPY WYSIĘGNIKÓW  
BRACKET TYPES



PODSTAWA PŁASKA  
BASEPLATE



# VALSK P 333/370

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Stalowe ośmiokątne słupy kablowe zaprojektowane są jako słupy przejściowe, krańcowe i kątowe z wysięgnikami do 2 metrów wysokości i wysięgiem do 2 metrów. Podwieszenie kabla na 7 metrach od powierzchni gruntu. Przyłożenie siły na wysokości większej niż 7 metrów wymaga dodatkowych obliczeń wytrzymałościowych. Podane parametry fundamentów są przyjęte dla średnich warunków gruntu. Dla konkretnego zapytania należy przygotować indywidualny projekt fundamentu.

Octagonal, steel lighting and cable poles (designed as suspension, angle and dead end poles) with bracket up to 2 metres height and up to 2 metres outreach.  
Cable installation (force load) on 7 metres required.  
Force load installation on different height available after preparing customized strength calculations.  
Concrete block dimensions calculated for average ground characteristic.  
Different ground specification required customized concrete block design.

Tabela z geometrią słupa / Pole dimensions







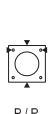




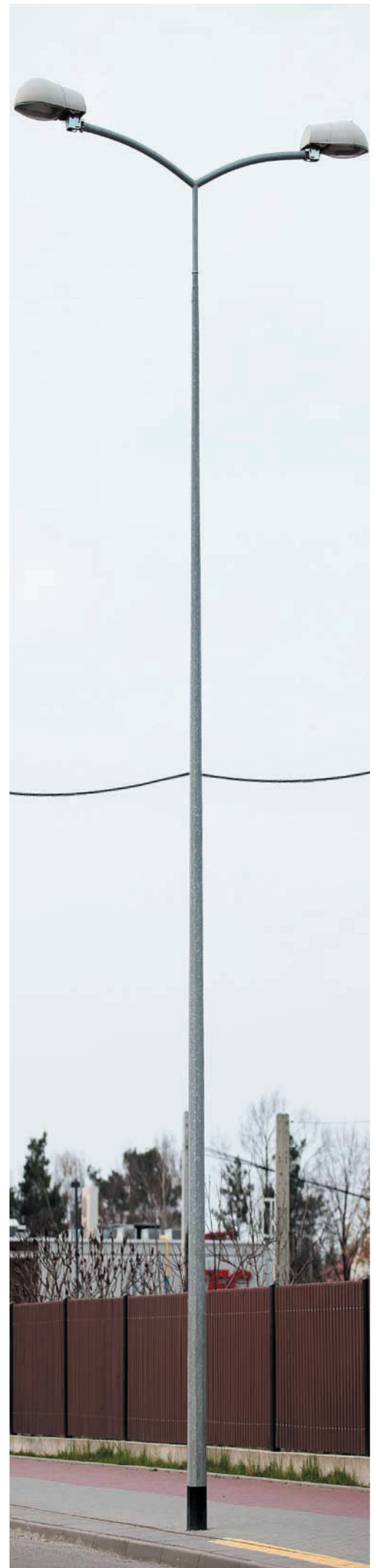
|             |  |  |  |  |  |  |  |  |  |
|-------------|---|---|---|---|---|---|---|---|---|
|             | [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [m]   |
| VALSK P 333 | 7   | 103   | 333   | 600   | 145   | 500   | 440 / 300   | M33 x 1700  | 1,1 x 2,1   |
|             | 8   |   |   |   |   |   |   |   |   |
|             | 9   |   |   |   |   |   |   |   |   |
|             | 10  |   |   |   |   |   |   |   |   |
|             | 11  |   |   |   |   |   |   |   |   |
| VALSK P 370 | 7   | 103   | 370   | 600   | 145   | 500   | 540 / 400   | M33 x 1700  | 1,6 x 1,7   |
|             | 8   |   |   |   |   |   |   |   |   |
|             | 9   |   |   |   |   |   |   |   |   |
|             | 10  |   |   |   |   |   |   |   |   |
|             | 11  |   |   |   |   |   |   |   |   |
| 12          |   |   |   |   |   |   |   |   |   |

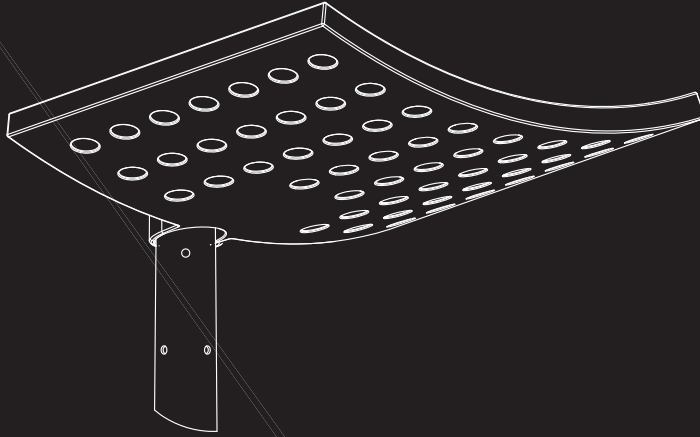
Tabela z wynikami obciążeń / Maximum loading

|             |  |  | K                            |                                  |                              |                                  | M     | T      |       |
|-------------|---|---|------------------------------|----------------------------------|------------------------------|----------------------------------|-------|--------|-------|
|             |   |   | I, III strefa < 300 m n.p.m. | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |       |        |       |
|             | [m]   | [kg]  | [m <sup>2</sup> ]            | [daN]                            | [daN]                        | [daN]                            | [daN] | [daNm] | [daN] |
| VALSK P 333 | 7   | *15   | 0,15                         | 1040                             | 1020                         | 980                              | 920   | 6898   | 1139  |
|             | 8   |   |                              | 1030                             | 1010                         | 950                              | 870   | 7454   | 1198  |
|             | 9   |   |                              | 980                              | 960                          | 880                              | 790   | 8078   | 1259  |
|             | 10  |   |                              | 940                              | 900                          | 820                              | 700   | 8211   | 1276  |
|             | 11  |   |                              | 880                              | 830                          | 730                              | 610   | 8215   | 1242  |
| VALSK P 370 | 7   | *15   | 0,15                         | 1100                             | 1080                         | 1030                             | 970   | 9351   | 1506  |
|             | 8   |   |                              | 1070                             | 1040                         | 980                              | 900   | 9795   | 1555  |
|             | 9   |   |                              | 1020                             | 1000                         | 930                              | 820   | 9795   | 1559  |
|             | 10  |   |                              | 970                              | 930                          | 860                              | 730   | 9801   | 1503  |
|             | 11  |   |                              | 910                              | 850                          | 770                              | 630   | 9793   | 1455  |
| 12          | 850   | 780   | 690                          | 520                              | 9795                         | 1432                             |       |        |       |

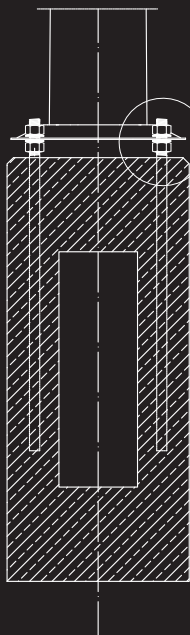
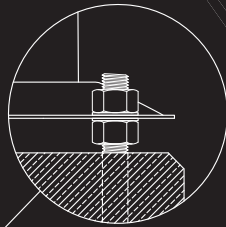
\* Maks. waga jednej oprawy  
\* Max. weight of one luminaire



# AURIGA P

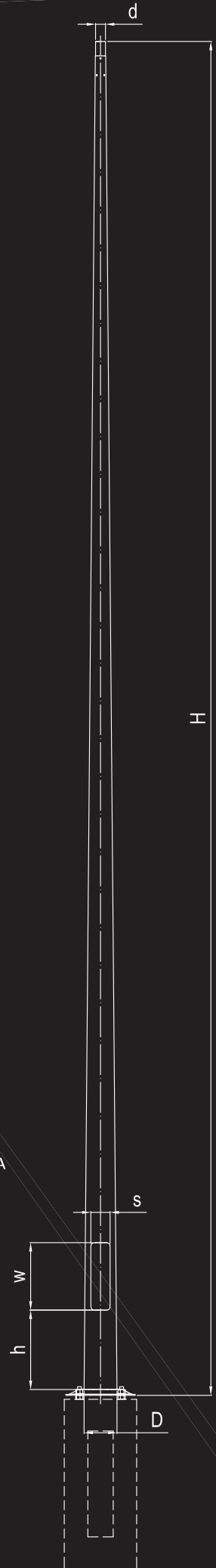
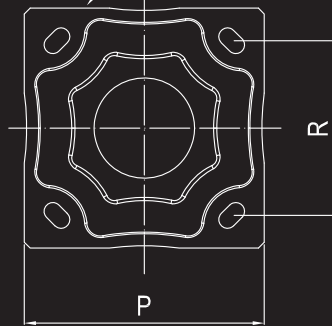


PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# AURIGA P

**Materiał / Description**

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to the norm EN ISO 1461)

**Wykończenie / Finishing**

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions









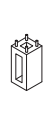




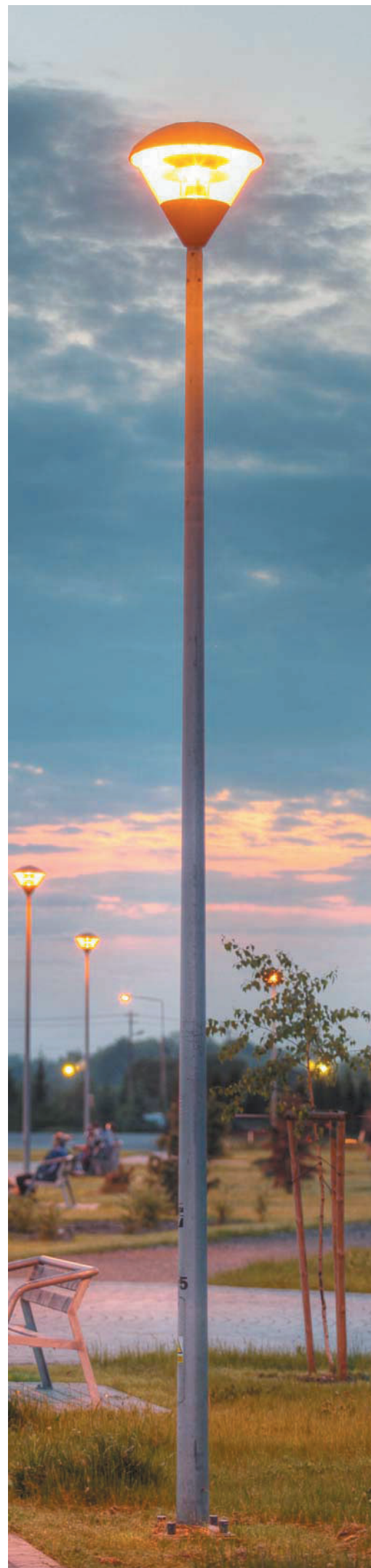
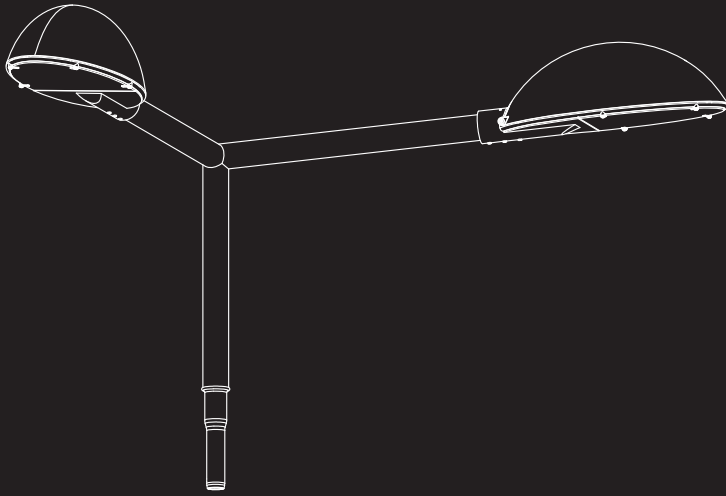
|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 3   | 60  | 98  | 400   | 65  | 500   | 271<br>/<br>200   | M18   | 100<br>/<br>30  | 800   |
| 3,5   |   | 104   |   | 70  |   |   |   |   |   |
| 4   |   | 110   |   | 75  |   |   |   |   |   |
| 4,5   |   | 116   |   | 75  |   |   |   |   |   |
| 5   |   | 122   |   | 80  |   |   |   |   |   |
| 6   |   | 134   |   | 85  |   |   |   |   | 1000  |

Tabela z wynikami obciążeń / Maximum load

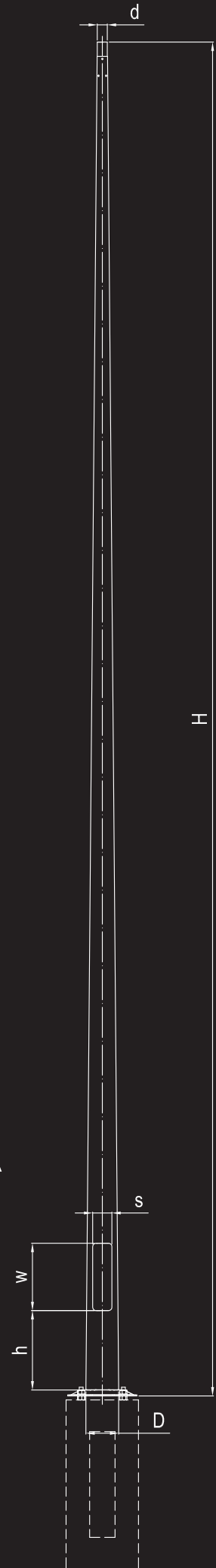
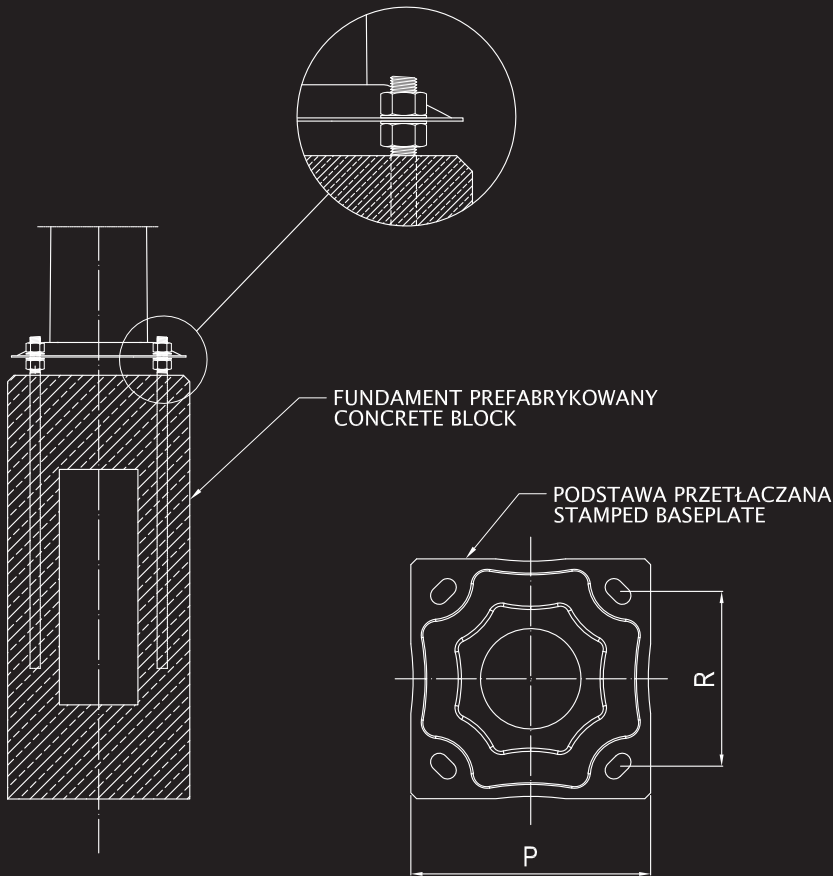
|  |  |  |  |                                    |  | M      | T     |
|---|---|---|--|------------------------------------|--|--------|-------|
|   |   | I, III strefa<br>< 300<br>m n.p.m.  | I, III strefa<br>300 - 450<br>m n.p.m. | II strefa<br>450 - 600<br>m n.p.m. | I, III strefa<br>600 - 900<br>m n.p.m. |        |       |
| [m]   | [kg]  | [m2]  | [m2]                                   | [m2]                               | [m2]                                   | [daNm] | [daN] |
| 3   | 40  | 1,17  | 0,96                                   | 0,81                               | 0,57                                   | 312    | 122   |
| 3,5   |   | 1,03  | 0,84                                   | 0,70                               | 0,49                                   | 340    | 119   |
| 4   |   | 0,91  | 0,75                                   | 0,62                               | 0,42                                   | 371    | 118   |
| 4,5   |   | 0,88  | 0,71                                   | 0,58                               | 0,41                                   | 433    | 126   |
| 5   |   | 0,78  | 0,62                                   | 0,50                               | 0,35                                   | 469    | 127   |
| 6   |   | 0,68  | 0,53                                   | 0,42                               | 0,28                                   | 570    | 135   |



# ANTARES P 60



PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION





# ANTARES P 60

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to norm EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

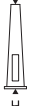












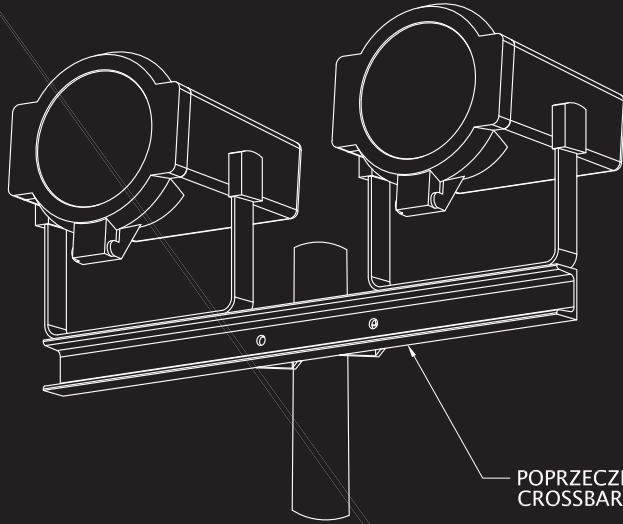
|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| [m]   | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [mm]  | [cm]  | [mm]  |
| 7   | 60  | 146   | 400   | 100   | 500   | 412 / 300   | M24   | 100 / 43  | 1000  |
| 8   |   | 158   |   |   |   |   |   | 1200  |   |
| 9   |   | 170   |   |   |   |   |   | 1500  |   |
| 10  |   | 182   |   | 1700  |   |   |   |   |   |
| 11  |   | 194   |   | 1500  |   |   |   |   |   |
| 12  |   | 206   |   | 1700  |   |   |   |   |   |
| 9   | 62  | 170   | 400   | 100   | 500   | 412 / 300   | M24   | 120 / 43  | 1200  |
| 10  |   | 182   |   | 1500  |   |   |   |   |   |
| 11  |   | 194   |   | 1700  |   |   |   |   |   |
| 12  |   | 206   |   | 1700  |   |   |   |   |   |

Tabela z wynikami obciążeń / Maximum loading

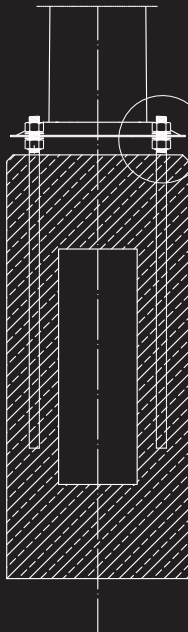
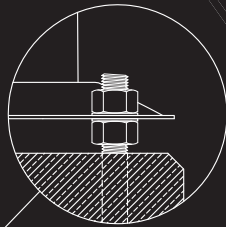
|  |  |  |                                  |                              |                                  | M      | T     |
|---|---|---|----------------------------------|------------------------------|----------------------------------|--------|-------|
|   |   | I, III strefa < 300 m n.p.m.  | I, III strefa 300 - 450 m n.p.m. | II strefa 450 - 600 m n.p.m. | I, III strefa 600 - 900 m n.p.m. |        |       |
| [m]   | [kg]  | [m2]  | [m2]                             | [m2]                         | [m2]                             | [daNm] | [daN] |
| 7   | 50  | 0,48  | 0,37                             | 0,28                         | 0,16                             | 612    | 134   |
| 8   |   | 0,46  | 0,35                             | 0,26                         | 0,15                             | 771    | 149   |
| 9   |   | 0,44  | 0,33                             | 0,24                         | 0,13                             | 926    | 163   |
| 10  |   | 0,42  | 0,31                             | 0,22                         | 0,12                             | 1112   | 180   |
| 11  |   | 0,35  | 0,24                             | 0,17                         | 0,07                             | 1213   | 188   |
| 12  |   | 0,33  | 0,23                             | 0,15                         | 0,06                             | 1412   | 206   |
| 9   | 50  | 0,76  | 0,59                             | 0,46                         | 0,30                             | 1222   | 194   |
| 10  |   | 0,77  | 0,59                             | 0,47                         | 0,30                             | 1483   | 213   |
| 11  |   | 0,78  | 0,60                             | 0,47                         | 0,31                             | 1764   | 235   |
| 12  |   | 0,60  | 0,45                             | 0,35                         | 0,20                             | 1765   | 232   |



# ANTARES P 76

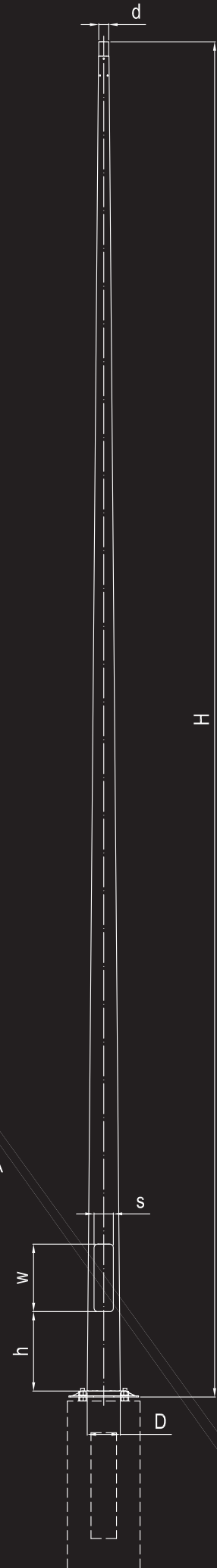
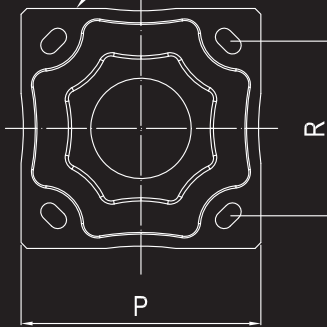


PRZYKŁADOWE ZASTOSOWANIE  
EXAMPLE SOLUTION



FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
STAMPED BASEPLATE



# ANTARES P 76

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to norm EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

| H   | d    | D    | W    | s    | h    | P/R             |      |      |      |
|-----|------|------|------|------|------|-----------------|------|------|------|
| [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]            | [mm] | [cm] | [mm] |
| 7   | 76   | 162  | 400  | 100  | 500  | 412<br>/<br>300 | M24  | 100  | 1000 |
| 8   |      | 174  |      |      |      |                 |      | 43   |      |
| 9   |      | 186  |      |      |      |                 |      | 120  |      |
| 10  |      | 198  |      | 43   |      |                 |      | 1500 |      |
| 11  |      | 210  |      | 150  |      |                 |      |      |      |
| 12  |      | 222  |      | 43   |      |                 |      | 1700 |      |
| 9   | 76   | 186  | 100  | 110  | 500  | 412<br>/<br>300 | M24  | 120  | 1200 |
| 10  |      | 198  | 43   |      |      |                 |      | 1500 |      |
| 11  |      | 210  | 150  |      |      |                 |      | 1700 |      |
| 12  |      | 222  | 43   |      |      |                 |      | 1700 |      |

Tabela z wynikami obciążeń / Maximum load

| H   | Kg   | Obciążenie                         |  |                                    |  | M      | T     |
|-----|------|------------------------------------|--|------------------------------------|--|--------|-------|
|     |      | I, III strefa<br>< 300<br>m n.p.m. | I, III strefa<br>300 - 450<br>m n.p.m. | II strefa<br>450 - 600<br>m n.p.m. | I, III strefa<br>600 - 900<br>m n.p.m. |        |       |
| [m] | [kg] | [m2]                               | [m2]                                   | [m2]                               | [m2]                                   | [daNm] | [daN] |
| 7   | 80   | 0,85                               | 0,68                                   | 0,55                               | 0,38                                   | 936    | 176   |
| 8   |      | 0,68                               | 0,53                                   | 0,42                               | 0,28                                   | 995    | 175   |
| 9   |      | 0,62                               | 0,48                                   | 0,39                               | 0,25                                   | 1166   | 189   |
| 10  |      | 0,52                               | 0,40                                   | 0,31                               | 0,19                                   | 1272   | 197   |
| 11  |      | 0,48                               | 0,37                                   | 0,29                               | 0,17                                   | 1472   | 215   |
| 12  |      | 0,45                               | 0,35                                   | 0,26                               | 0,14                                   | 1664   | 233   |
| 9   | 80   | 1,06                               | 0,84                                   | 0,70                               | 0,48                                   | 1583   | 233   |
| 10  |      | 0,97                               | 0,77                                   | 0,63                               | 0,42                                   | 1770   | 242   |
| 11  |      | 0,75                               | 0,58                                   | 0,46                               | 0,30                                   | 1765   | 238   |
| 12  |      | 0,56                               | 0,43                                   | 0,34                               | 0,19                                   | 1769   | 238   |



# ASTRA P S

ASTRA KC S

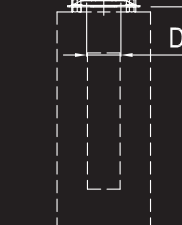
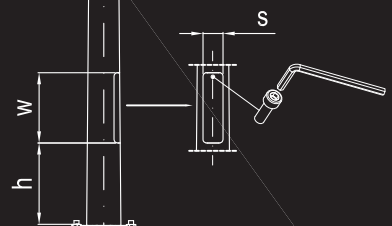
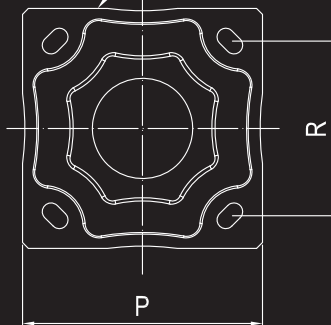
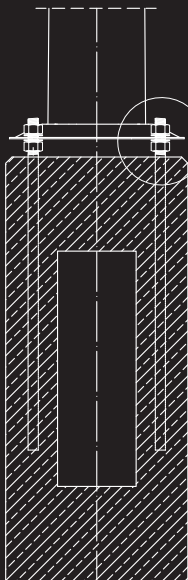
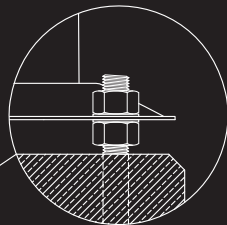
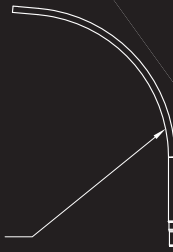
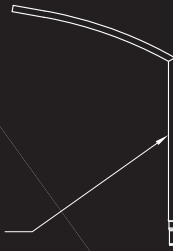
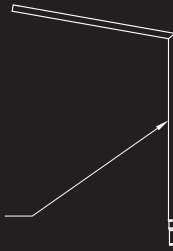
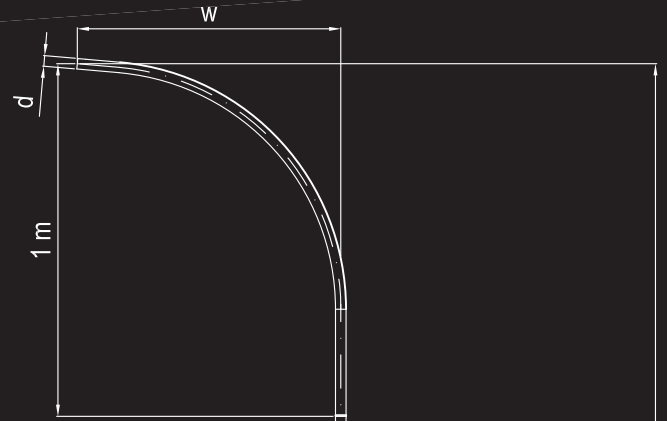
ASTRA KCC S

ASTRA OC S

TYPY WYSIEGNIKÓW  
BRACKET TYPES

FUNDAMENT PREFABRYKOWANY  
CONCRETE BLOCK

PODSTAWA PRZETŁACZANA  
BASEPLATE



# ASTRA P S

OKRĄGŁA STALOWA KOLUMNĄ OŚWIETLENIOWĄ  
Z POJEDYNCZYM WYSIĘGNIKIEM RUROWYM  
ROUND CONICAL STEEL LIGHTING COLUMN  
WITH SINGLE TUBULAR BRACKET

## Materiał / Description

Stal ocynkowana (zgodnie z normą EN ISO 1461)  
Galvanized steel (according to norm EN ISO 1461)

## Wykończenie / Finishing

Malowanie proszkowe lub hydrodynamiczne na dowolny kolor z palety RAL lub AKZO  
Powder coat as well as hydrodynamic painting on every color from RAL or AKZO palette

Tabela z geometrią słupa / Pole dimensions

| H   | w   | d    | D    | W    | s    | h    | P/R       |      |          |      |
|-----|-----|------|------|------|------|------|-----------|------|----------|------|
| [m] | [m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm]      | [mm] | [cm]     | [mm] |
| 7   | 1,5 | 60   | 144  | 400  | 110  | 500  | 412 / 300 | M24  | 100 / 43 | 1000 |
| 8   |     |      | 158  |      |      |      |           |      | 1200     |      |
| 9   |     |      | 172  |      |      |      |           |      | 120 / 43 | 1500 |
| 10  |     |      | 186  |      |      |      |           |      |          |      |
| 11  |     |      | 200  |      |      |      |           |      |          |      |
| 12  |     |      | 214  |      |      |      |           |      |          |      |

Standardowa wysokość wysięgnika 1 m  
Standard height of the bracket 1 m

Tabela z wynikami obciążeń / Maximum loading

|     | Kg   |      |      |      |      | M      | T     |
|-----|------|------|------|------|------|--------|-------|
|     |      | P1   | P2   | P3   | P4   |        |       |
| [m] | [kg] | [m2] | [m2] | [m2] | [m2] | [daNm] | [daN] |
| 7   | *15  | 0,17 | 0,12 | 0,08 | -    | 488    | 116   |
| 8   |      | 0,28 | 0,21 | 0,15 | 0,07 | 696    | 139   |
| 9   |      | 0,37 | 0,28 | 0,21 | 0,11 | 942    | 163   |
| 10  |      | 0,43 | 0,33 | 0,25 | 0,13 | 1188   | 185   |
| 11  |      | 0,49 | 0,37 | 0,28 | 0,15 | 1461   | 208   |
| 12  |      | 0,48 | 0,37 | 0,28 | 0,15 | 1766   | 233   |

\* Maks. waga jednej oprawy  
\* Max. weight of one luminary

