PARK LIGHTING / PARK LUMINAIRES

DROP LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colour: inox/graphite
- assembly: on extension arm or wall bracket with spigot ending Ø42 mm length 30 mm
- recommended assembly height: 5-6 m
- luminaire is adapted to work in temperatures between -40°C and +40°C

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DROP LED 48</td>
<td>5 000</td>
<td>214933/6/A</td>
<td>48/16</td>
<td>55</td>
<td>6 650</td>
<td>121</td>
<td>6.5</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>214933/3/A</td>
<td>48/16</td>
<td>52</td>
<td>5 200</td>
<td>95</td>
<td></td>
</tr>
</tbody>
</table>

* due to LED precision class, the value tolerance is +/-3%
A – asymmetric optical system
S – symmetric optical system

Light distribution curve for luminaire DROP LED, symmetric

Light distribution curve for luminaire DROP LED, asymmetric
PARK LIGHTING / LIGHTING SETS

CORE LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XT-E
- material: anodised aluminium alloy
- standard colour: graphite/black
- assembly: upwards or downwards

- decorative element made of exotic wood
- luminaire is adapted to work in temperatures between -40°C and +55°C

Light distribution curve for CORE LED

<table>
<thead>
<tr>
<th>Name</th>
<th>Colour temperature (K)</th>
<th>Code</th>
<th>Power / number of LEDs (W/pcs)</th>
<th>Total power (W)</th>
<th>Luminous flux (lm)*</th>
<th>Lighting efficiency (lm/W)</th>
<th>Concrete footing/Reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE LED 24</td>
<td>5 000</td>
<td>216530/6</td>
<td>24/12</td>
<td>31</td>
<td>2 300</td>
<td>74</td>
<td>B-50 / Z-50</td>
</tr>
<tr>
<td>CORE LED 48</td>
<td>5 000</td>
<td>216533/6</td>
<td>48/24</td>
<td>55</td>
<td>4 550</td>
<td>83</td>
<td>B-50 / Z-50</td>
</tr>
</tbody>
</table>

* due to LED precision class, the value tolerance is +/- 3%
PARK LIGHTING / LIGHTING SETS

CUT LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XT-E
- material: anodised aluminium alloy
- standard colour: inox
- decorative element made of aluminium in grey colour or PMMA (possibility to make decorative backlight of decorative elements)
- luminaire is adapted to work in temperatures between -40°C and +55°C

Light distribution curve for CUT LED

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>CUT LED 24</td>
<td>5 000</td>
<td>216030/6</td>
<td>24/12</td>
<td>31</td>
<td>2 300</td>
<td>74</td>
<td>B-50 / Z-50</td>
</tr>
<tr>
<td>CUT LED 48</td>
<td>5 000</td>
<td>216033/6</td>
<td>48/24</td>
<td>55</td>
<td>4 550</td>
<td>83</td>
<td>B-50 / Z-50</td>
</tr>
</tbody>
</table>

* due to LED precision class, the value tolerance is +/-3%
PARK LIGHTING / LIGHTING SETS

STICK LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XT-E
- material: anodised aluminium alloy
- standard colour: inox/grey
- possible to produce any configuration of the lighting arms from 1 to 4
- luminaire is adapted to work in temperatures between -40°C and +55°C

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>STICK LED 24</td>
<td>5 000</td>
<td>217030/6</td>
<td>24/12</td>
<td>31</td>
<td>2 300</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>STICK LED 48</td>
<td>5 000</td>
<td>217033/6</td>
<td>48/24</td>
<td>55</td>
<td>4 550</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>STICK II LED 24</td>
<td>5 000</td>
<td>217130/6</td>
<td>2 x 24/2 x 12</td>
<td>2 x 31</td>
<td>2 x 2 300</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>STICK II LED 48</td>
<td>5 000</td>
<td>217133/6</td>
<td>2 x 48/2 x 24</td>
<td>2 x 55</td>
<td>2 x 4 550</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>STICK III LED 24</td>
<td>5 000</td>
<td>217430/6</td>
<td>3 x 24/3 x 12</td>
<td>3 x 31</td>
<td>3 x 2 300</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>STICK III LED 48</td>
<td>5 000</td>
<td>217433/6</td>
<td>3 x 48/3 x 24</td>
<td>3 x 55</td>
<td>3 x 4 550</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>STICK IV LED 24</td>
<td>5 000</td>
<td>217630/6</td>
<td>4 x 24/4 x 12</td>
<td>4 x 31</td>
<td>4 x 2 300</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>STICK IV LED 48</td>
<td>5 000</td>
<td>217633/6</td>
<td>4 x 48/4 x 24</td>
<td>4 x 55</td>
<td>4 x 4 550</td>
<td>83</td>
<td></td>
</tr>
</tbody>
</table>

* due to LED precision class, the value tolerance is +/-3%
PARK LIGHTING / LIGHTING SETS

DROP I LED / DROP II LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- standard colour: inox/graphite
- luminaire is adapted to work in temperatures between -40°C and +40°C

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</tr>
</thead>
<tbody>
<tr>
<td>DROP I LED 48</td>
<td>5 000</td>
<td>215033/6/A 215033/6/S</td>
<td>48 / 16</td>
<td>55</td>
<td>6 650</td>
<td>121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>215033/3/A 215033/3/S</td>
<td>2 x 48 / 2 x 16</td>
<td>2 x 55</td>
<td>2 x 6 650</td>
<td>121</td>
<td></td>
</tr>
<tr>
<td>DROP II LED 48</td>
<td>5 000</td>
<td>215133/6/A 215133/6/S</td>
<td>2 x 48 / 2 x 16</td>
<td>2 x 55</td>
<td>2 x 6 650</td>
<td>121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>215133/3/A 215133/3/S</td>
<td>2 x 48 / 2 x 16</td>
<td>2 x 55</td>
<td>2 x 6 650</td>
<td>121</td>
<td></td>
</tr>
</tbody>
</table>

* due to LED precision class, the value tolerance is +/-3%
S – symmetric optical system
A – asymmetric optical system
DROP I LED / DROP II LED

PARK LIGHTING / LIGHTING SETS
FLEXI LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz (FLEXI LED 48) 220-240 V AC, 50/60 Hz (FLEXI LED 24)
- light source: CREE XT-E
- material: anodised aluminium alloy
- standard colour: inox/graphite
- luminaire is adapted to work in temperatures between -40°C and +55°C

<table>
<thead>
<tr>
<th>Name</th>
<th>Colour temperature (°C)</th>
<th>Colour code</th>
<th>Power / number of LEDs [W/pcs]</th>
<th>Total power [W]</th>
<th>Luminous flux [lm]*</th>
<th>Lighting efficiency [lm/W]</th>
<th>Concrete footing/Reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEXI LED 24</td>
<td>5 000</td>
<td>215530/6/S</td>
<td>24 / 8</td>
<td>28</td>
<td>2 550</td>
<td>88</td>
<td>B-50 / Z-50</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>215530/3/S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLEXI LED 48</td>
<td>5 000</td>
<td>215533/6/S</td>
<td>48 / 16</td>
<td>55</td>
<td>5 100</td>
<td>93</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>215533/3/S</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* due to the precision class of diodes tolerance is +/-3%
S – symmetric optics
A – asymmetric optics
KARIN LED

- protection degree: IP65
- insulation class: II
- supply voltage: 100-240 V AC, 50/60 Hz (KARIN 450-1200 LED) 120-277 V AC, 50/60 Hz (KARIN 2400-6000 LED)
- light source: CREE XT-E
- lamp-diffuser: frosted PMMA
- material: anodised aluminium alloy
## KARIN LED

### Light distribution curve for column KARIN LED 4800

![Light distribution curve for column KARIN LED 4800](image)

### Light distribution curve for column KARIN LED 450-1200

![Light distribution curve for column KARIN LED 450-1200](image)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>KARIN 450 LED</td>
<td>5 000</td>
<td>45200/6/C..</td>
<td>16/8</td>
<td>21</td>
<td>1 050</td>
<td>50</td>
<td>450</td>
<td>13</td>
<td>150</td>
<td>B-0 / Z-0</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>45200/3/C..</td>
<td></td>
<td></td>
<td>1 000</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KARIN 600 LED</td>
<td>5 000</td>
<td>45210/6/C..</td>
<td></td>
<td></td>
<td>1 050</td>
<td>50</td>
<td>600</td>
<td>13</td>
<td>150</td>
<td></td>
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<tr>
<td></td>
<td>3 500</td>
<td>45210/3/C..</td>
<td></td>
<td></td>
<td>1 000</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KARIN 900 LED</td>
<td>5 000</td>
<td>45220/6/C..</td>
<td></td>
<td></td>
<td>1 050</td>
<td>50</td>
<td>900</td>
<td>13</td>
<td>150</td>
<td>B-0A / Z-0A</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>45220/3/C..</td>
<td></td>
<td></td>
<td>1 000</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>KARIN 1200 LED</td>
<td>5 000</td>
<td>45230/6/C..</td>
<td></td>
<td></td>
<td>1 050</td>
<td>50</td>
<td>1200</td>
<td></td>
<td></td>
<td>B-0A / Z-0A</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>45230/3/C..</td>
<td></td>
<td></td>
<td>1 000</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KARIN 1200W LED</td>
<td>5 000</td>
<td>45240/6/C..</td>
<td>32 / 16</td>
<td>39</td>
<td>2 150</td>
<td>55</td>
<td>2 400</td>
<td>908</td>
<td>150</td>
<td>B-30 / Z-30</td>
</tr>
<tr>
<td></td>
<td>3 500</td>
<td>45240/3/C..</td>
<td>48 / 24</td>
<td>58</td>
<td>4 550</td>
<td>78</td>
<td>3 600</td>
<td>915</td>
<td>180</td>
<td>B-60 / Z-60</td>
</tr>
<tr>
<td>KARIN 3600 LED</td>
<td>5 000</td>
<td>45250/6/C..</td>
<td>88 / 44</td>
<td>100</td>
<td>7 100</td>
<td>71</td>
<td>4 800</td>
<td>915</td>
<td>200</td>
<td>B-60 / Z-60</td>
</tr>
<tr>
<td>KARIN 4800 LED</td>
<td>5 000</td>
<td>45260/6/C..</td>
<td></td>
<td></td>
<td>7 100</td>
<td>71</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KARIN 6000 LED</td>
<td>5 000</td>
<td>45270/6/M</td>
<td>116 / 58</td>
<td>134</td>
<td>9 150</td>
<td>68</td>
<td></td>
<td></td>
<td></td>
<td>B-71 / Z-71</td>
</tr>
</tbody>
</table>

*due to the precision class of diodes tolerance is +/-3%

C... – choice of anodising colour
M... – painted according RAL palette

---

**PARK LIGHTING / LIGHTING COLUMNS**

Tychy / Poland
**KARIN DECOR LED**

- **protection degree:** IP65
- **insulation class:** II
- **supply voltage:** 100-277 V AC, 50/60 Hz (KARIN DECOR 2400-4800 LED)
- **light source:** CREE XT-E
- **lamp-diffuser:** frosted PMMA
- **material:** anodised aluminium alloy
- **decorative element on the lamp diffuser**

---

**Light distribution curve for columns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Colour temperature (K)</th>
<th>Code</th>
<th>Power / number of LEDs (W/pcs)</th>
<th>Total power (W)</th>
<th>Luminous flux (lm)*</th>
<th>Lighting efficiency (lm/W)</th>
<th>Height H (mm)</th>
<th>Lamp-diffuser height h (mm)</th>
<th>Diameter D (mm)</th>
<th>Concrete footing/Reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>KARIN DECOR 2400 LED</td>
<td>5 000</td>
<td>45241/6/C..</td>
<td>32/16</td>
<td>39</td>
<td>1 600</td>
<td>41</td>
<td>2 400</td>
<td>908</td>
<td>150</td>
<td>B-50 / Z-50</td>
</tr>
<tr>
<td>KARIN DECOR 3600 LED</td>
<td>5 000</td>
<td>45251/6/C..</td>
<td>48/24</td>
<td>58</td>
<td>3 400</td>
<td>59</td>
<td>3 600</td>
<td>915</td>
<td>180</td>
<td>B-60 / Z-60</td>
</tr>
<tr>
<td>KARIN DECOR 4800 LED</td>
<td>5 000</td>
<td>45261/6/C..</td>
<td>88/44</td>
<td>100</td>
<td>5 350</td>
<td>54</td>
<td>4 800</td>
<td>915</td>
<td>200</td>
<td>B-60 / Z-60</td>
</tr>
</tbody>
</table>

*due to the precision class of diodes tolerance is +/-3%
*C… – choice of anodising colour
SA BOLLARDS

SAM bollards – white cylindrical diffuser PC-UV
SAP bollards – transparent cylindrical diffuser PC-UV with steel louvre reflector

Types of bollards:
on concrete footing and rooted (marked “dz” in the name) with round and flat cap (marked …/P in the product code)

Types of light sources:
S – sodium: 50W, 70W
MH – metal halide 70W, 100W
E/Z – 23W compact fluorescent lamps

Technical information:
• protection degree: IP65
• insulation class: II
• supply voltage: 230 V AC, 50 Hz

<table>
<thead>
<tr>
<th>Name</th>
<th>Light source</th>
<th>Cap</th>
<th>Code</th>
<th>Height H (mm)</th>
<th>Concrete footing</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAM 600</td>
<td>S-50W E-27</td>
<td>round</td>
<td>45001/C..</td>
<td>45002/C..</td>
<td>45003E/C..</td>
</tr>
<tr>
<td></td>
<td>S-70W E-27</td>
<td>flat</td>
<td>45007/C../P</td>
<td>45008/C../P</td>
<td>45009/C../P</td>
</tr>
<tr>
<td></td>
<td>MH-100W E-27</td>
<td>flat</td>
<td>45090/C../P</td>
<td>45091/C../P</td>
<td>45092/C../P</td>
</tr>
<tr>
<td></td>
<td>S-70W E-27</td>
<td>flat</td>
<td>45067/C../P</td>
<td>45068/C../P</td>
<td>45069/C../P</td>
</tr>
<tr>
<td></td>
<td>MH-100W E-27</td>
<td>flat</td>
<td>45095/C../P</td>
<td>45096/C../P</td>
<td>45097/C../P</td>
</tr>
<tr>
<td>SAM 1200</td>
<td>S-50W E-27</td>
<td>round</td>
<td>45015/C..</td>
<td>45016/C..</td>
<td>45017/C..</td>
</tr>
<tr>
<td></td>
<td>S-70W E-27</td>
<td>flat</td>
<td>45065/C../P</td>
<td>45066/C../P</td>
<td>45067/C../P</td>
</tr>
<tr>
<td>SAM 1200 dz</td>
<td>MH-70W E-27</td>
<td>round</td>
<td>45074/C../P</td>
<td>45075/C../P</td>
<td>45076/C../P</td>
</tr>
<tr>
<td></td>
<td>MH-100W E-27</td>
<td>flat</td>
<td>45095/C../P</td>
<td>45096/C../P</td>
<td>45097/C../P</td>
</tr>
<tr>
<td></td>
<td>S-70W E-27</td>
<td>flat</td>
<td>45081/C../P</td>
<td>45082/C../P</td>
<td>45083/C../P</td>
</tr>
</tbody>
</table>

## SA BOLLARDS

### PARK LIGHTING / LIGHTING COLUMNS

#### Name | Light source | Code | Cap | Height H (mm) | Concrete footing
--- | --- | --- | --- | --- | ---
**SAM dz/P**
SAP 600 round | 45030/C.. | 45031/C.. | 45032/C.. | 45032E/C.. | 45033/C.. | 45036/C.. | 600 | B-0, B-0A, Z-0, Z-0A
SAP 600 dz flat | 45088/C.. | 45089/C.. | 45090/C.. | 45090E/C.. | 45091/C.. | 45094/C.. | 600 | X
SAP 900 round | 45037/C.. | 45038/C.. | 45039/C.. | 45039E/C.. | 45040/C.. | 45043/C.. | 900 | B-0, B-0A, Z-0, Z-0A
SAP 1200 round | 45102/C.. | 45103/C.. | 45104/C.. | 45104E/C.. | 45105/C.. | 45108/C.. | 1180 | B-0A / Z-0A
SAP 1200 W round | 45051/C.. | 45052/C.. | 45053/C.. | 45053E/C.. | 45054/C.. | 45056/C.. | 1180 | B-0A / Z-0A

PARK LIGHTING / LIGHTING COLUMNS

SAL DECO-1 / SAL DECO-1 LED

- **protection degree:** IP65
- **construction:** electrical equipment built in the upper part of the column and closed by refractory glass; cap with external reflector in the form of convex mirrored squares; 3 arms connect column with round roof
- **material:** anodised aluminium alloy

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</tr>
</thead>
<tbody>
<tr>
<td>SAL DECO-1</td>
<td>42920/C..</td>
<td>MH-150W lamp cap G12</td>
<td>I</td>
<td>230 V AC, 50/60 Hz</td>
<td>0.85</td>
<td>167</td>
<td>4 860</td>
<td>B-51A / Z-51A</td>
<td></td>
</tr>
<tr>
<td>SAL DECO-1 LED</td>
<td>42928/C..</td>
<td>Cree MK-R 5000 K</td>
<td>II</td>
<td>120-277 V AC, 50/60 Hz</td>
<td>0.7</td>
<td>65/8</td>
<td>73</td>
<td>4 750</td>
<td>B-51A / Z-51A</td>
</tr>
</tbody>
</table>

C. . . - choice of anodising colour
* due to the precision class of diodes tolerance is +/-3%
PARK LIGHTING / LIGHTING COLUMNS

SAL DECO-2 / SAL DECO-2 LED

- protection degree: IP65
- construction: electrical equipment built in the upper part of the column and closed by refractory glass; cap with external reflector in the form of convex mirrored squares; 2 arms connect column with rectangular roof
- material: anodised aluminium alloy

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Light source</th>
<th>Insulation class</th>
<th>Supply voltage [V]</th>
<th>Supply current [A]</th>
<th>Power / number of LEDs [W/pcs]</th>
<th>Total power [W]</th>
<th>Luminous flux [lm]*</th>
<th>Concrete footing/Reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL DECO-2</td>
<td>42921/C...</td>
<td>MH-150W s1/T 612</td>
<td>I</td>
<td>230 V AC, 50/60 Hz</td>
<td>0,85</td>
<td>-</td>
<td>167</td>
<td>4 600</td>
<td>B-51A / Z-51A</td>
</tr>
<tr>
<td>SAL DECO-2 LED</td>
<td>42929/C...</td>
<td>CREE MK-R 5000 K</td>
<td>II</td>
<td>120-277 V AC, 50/60 Hz</td>
<td>0,7</td>
<td>65/8</td>
<td>73</td>
<td>7 450</td>
<td>B-51A / Z-51A</td>
</tr>
</tbody>
</table>

C... - choice of anodising colour
* due to the precision class of diodes tolerance is +/-3%
PARK LIGHTING / LIGHTING COLUMNS

SAL DECO-3 / SAL DECO-3 LED

- protection degree: IP65
- cylindrical white lamp-diffuser PC-UV, aluminium decorative elements
- material: anodised aluminium alloy

Distribution curve for SAL DECO-3 LED

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Light source</th>
<th>Insulation class</th>
<th>Supply voltage [V]</th>
<th>Supply current [A]</th>
<th>Power / number of LEDs [W/pcs]</th>
<th>Total power [W]</th>
<th>Luminous flux [lm]*</th>
<th>Concrete footing / Reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL DECO-3</td>
<td>42922/C..</td>
<td>MH-150W lamp cap G12</td>
<td>I</td>
<td>230 V AC, 50/60 Hz</td>
<td>0,85</td>
<td>–</td>
<td>167</td>
<td>4 030</td>
<td>B-S51/Z-51</td>
</tr>
<tr>
<td>SAL DECO-3 LED</td>
<td>42923/C..</td>
<td>CREE XT-E 5000 K</td>
<td>II</td>
<td>120-277 V AC, 50/60 Hz</td>
<td>0,7</td>
<td>48/24</td>
<td>56</td>
<td>2 500</td>
<td>B-S51/Z-51</td>
</tr>
</tbody>
</table>

C… – choice of anodising colour

* due to the precision class of diodes tolerance is +/-3%
Our lighting gives the unique nature of each street. We specialize in products made of anodised aluminium, which not only protects the products against corrosion, but also gives them a decorative nature. Wide choice of street columns, extension arms, masts and luminaires will adjust the lighting to the nature of the street. Combination of anodised aluminium technology and innovative LED light source makes that ROSA lighting is durable, economical, ecological, and at the same time aesthetic. We offer the possibility of making a complete street lighting tailored to our customers needs.
STREET LIGHTING / ALUMINIUM COLUMNS / STRAIGHT COLUMNS

STRAIGHT COLUMNS Ø146 MM

Columns with base plate
- **SAL-60** code: 42313/C..
- **SAL-65** code: 42314/C..
- **SAL-70** code: 42315/C..
- **SAL-75** code: 42316/C..
- **SAL-80** code: 42317/C..
- **SAL-60G** code: 42343/C..
- **SAL-70G** code: 42345/C..

Rooted columns
- **SAL-60 dz** code: 42323/C..
- **SAL-70 dz** code: 42325/C..

**Elastomer protection**
STRAIGHT COLUMNS Ø178 MM

Columns with base plate
- SAL-80K code: 42630/C..
- SAL-90K code: 42632/C..
- SAL-100K code: 42634/C..

Rooted columns
- SAL-80K dz code: 42606/C..

STREET LIGHTING / ALUMINIUM COLUMNS / STRAIGHT COLUMNS

Wrocław / Poland
STREET LIGHTING / ALUMINIUM COLUMNS / STRAIGHT COLUMNS

STRAIGHT COLUMNS Ø180 MM

Columns with base plate
- SAL-80M code: 42755/C..
- SAL-90M code: 42757/C..
- SAL-100M code: 42759/C..

Rooted columns
- SAL-80M dz code: 42706/C..

... – choice of anodising colour

Tychy / Poland
elastomer protection
TWO-PIECE ALUMINIUM COLUMNS Ø176 MM

Columns with base plate
- SAL-9.3 code: 42456/C..
- SAL-10.3 code: 42458/C..
- SAL-10.8 code: 42459/C..
- SAL-11.3 code: 42460/C..
- SAL-11.8 code: 42461/C..

Column with base plate

Astana / Kazakhstan
STREET LIGHTING / ALUMINIUM COLUMNS

TWO-PIECE ALUMINIUM REINFORCED COLUMNS Ø176 MM

Columns with base plate:

- SAL-9,3 wzm code: 42476/C..
- SAL-9,8 wzm code: 42477/C..
- SAL-10,3 wzm code: 42478/C..
- SAL-10,8 wzm code: 42479/C..
- SAL-11,3 wzm code: 42470/C..
- SAL-11,8 wzm code: 42471/C..
- SAL-12,3 wzm code: 42472/C..
- SAL-12,8 wzm code: 42473/C..

Katowice / Poland

niche reinforced with cross bars
connector SAL

Column with base plate
EXTENSION ARMS WA

- **application**: columns SAL with spigot ending Ø60 mm, wall bracket KA with one arm for wall mounting
- **material**: anodised aluminium alloy

Chełm Śląski / Poland

STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS
STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS

EXTENSION ARMS WR

- **application**: columns SAL with spigot ending Ø60 mm
- **material**: anodised aluminium alloy
- **luminaires**: street luminaires with spigot ending Ø60 mm, except WR17 for luminaires with spigot ending Ø42 mm (OW, DROP)

The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets)

- **WR-1/1**
  - code: 472011/C...

- **WR-1/2**
  - code: 472012/C..

- **WR-2/1**
  - code: 472021/C..

- **WR-2/2**
  - code: 472022/C..

- **WR-2/3**
  - code: 472023/C..

- **WR-3/1**
  - code: 472031/C..

- **WR-3/2**
  - code: 472032/C...

- **WR-3/3**
  - code: 472033/C..

Limanowa / Poland
The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).
STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS

EXTENSION ARMS WR

The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).

C… – choice of anodising colour

Ostrołęka / Poland
The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).
STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS

EXTENSION ARMS WR

The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).

© – choice of anodising colour
The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).

C... – choice of anodising colour
STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS

EXTENSION ARMS WRP

- **application**: columns SAL with spigot ending Ø60 mm
- **material**: anodised aluminium alloy
- **luminaires**: street luminaires

**EXTENSION ARMS WRP**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRP 1/1,0/0,7/5</td>
<td>Ø61, L = height of extension arm, Z = outreach length, 5˚ = the angle of the arm, 1/2/3 = number of arms</td>
</tr>
<tr>
<td>WRP 1/1,0/1,2/5</td>
<td>Ø76, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 1/1,5/0,7/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 1/1,5/1,2/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 2/1,0/0,7/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 2/1,0/1,2/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 2/1,5/0,7/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 2/1,5/1,2/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 3/1,0/0,7/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 3/1,0/1,2/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 3/1,5/0,7/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
<tr>
<td>WRP 3/1,5/1,2/5</td>
<td>Ø61, Ø60, L, Z, 5˚, 1/2/3</td>
</tr>
</tbody>
</table>

The use of extension arms must always be verified with the permissible load for the wind zone (technical data sheets).
STREET LIGHTING / EXTENSION ARMS FOR ALUMINIUM COLUMNS

EXTENSION ARMS WN

- **application:** columns SAL with spigot ending Ø60 mm
- **material:** anodised aluminium alloy
- **luminaires:** floodlights

WN-1
code: 473010/C..

WN-2
code: 473020/C..

WN-3
code: 473030/C..

WN-4
code: 473040/C..

Ukraine
STREET LIGHTING

C… – choice of anodising colour
STREET LIGHTING / COLUMNS WITH WELDED EXTENSION ARMS

COLUMNS WITH WELDED EXTENSION ARMS

- SAL DL-1
  - Code: 42993/C..
  - Dimensions: 1300 x 8000 mm
- SAL-N22
  - Code: 42348/C..
  - Dimensions: 2200 x 7680 mm
- SAL-N12
  - Code: 42347/C..
  - Dimensions: 1100 x 7680 mm

C… – choice of anodising colour

Lublin / Poland
COLUMNS WITH WELDED EXTENSION ARMS

STREET LIGHTING

SAL-P61
code: 42487/C..

SAL-P71
code: 42488/C..

SAL-P81
code: 42489/C..

C... – choice of anodising colour
COLUMNS WITH WELDED EXTENSION ARMS

STREET LIGHTING / COLUMNS WITH WELDED EXTENSION ARMS

Andrychów / Poland
Warszawa / Poland

C...– choice of anodising colour

SAL-W1 wzm code: 42469/C..
SAL-U1 code: 42465/C..
SAL-Z1 wzm code: 42474/C..

ø60
1500
łącznik SAL
ø120
15
ø60
9300
8500
5300
1500
15
ø60
10000
6300
6800
5900
łącznik SAL
ø120
ø60
800
9300
4850
5300
9000

B-70/Z-70
STREET LIGHTING / COLUMNS WITH WELDED EXTENSION ARMS

COLUMNS WITH WELDED EXTENSION ARMS

C… – choice of anodising colour

SAL-P11
code: 42481/C..

SAL-P12
code: 42482/C..

SAL-P21
code: 42483/C..

SAL-P31
code: 42484/C..

C… – choice of anodising colour
STREET LIGHTING / TWO-PIECE ALUMINIUM COLUMNS

TWO-PIECE COLUMNS Ø180 MM

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Length of the arm (m)</th>
<th>Number of arms</th>
<th>Height H (m)</th>
<th>Height of lower part of the column (m)</th>
<th>Concrete footing/reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL-9 WLN</td>
<td>42720</td>
<td>1,5</td>
<td>1</td>
<td>9</td>
<td>7,3</td>
<td>B-70/Z-70</td>
</tr>
<tr>
<td>SAL-10 WLN</td>
<td>42721</td>
<td>1,5</td>
<td>1</td>
<td>10</td>
<td>7,3</td>
<td>B-70/Z-70</td>
</tr>
<tr>
<td>SAL-11 WLN</td>
<td>42722</td>
<td>1,5</td>
<td>1</td>
<td>11</td>
<td>7,3</td>
<td>B-70/Z-70</td>
</tr>
</tbody>
</table>
# STREET LIGHTING / TWO-PIECE ALUMINIUM COLUMNS

## TWO-PIECE COLUMNS WITH CURVED EXTENSION

**ARMS Ø176 MM**

<table>
<thead>
<tr>
<th>Name</th>
<th>Length of the arm (m)</th>
<th>Code</th>
<th>Height of the column (m)</th>
<th>Height of upper part of the column D (m)</th>
<th>Height of lower part of the column D (m)</th>
<th>Concrete footing/ reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL-8,5 WŁ</td>
<td>1.5</td>
<td>42410/C..</td>
<td>42411/C..</td>
<td>42412/C..</td>
<td>8.5</td>
<td>3,2</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42413/C..</td>
<td>42414/C..</td>
<td>42415/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>42416/C..</td>
<td>42417/C..</td>
<td>42418/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-9 WŁ</td>
<td>1.5</td>
<td>42419/C..</td>
<td>42420/C..</td>
<td>42421/C..</td>
<td>9</td>
<td>3,2</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42422/C..</td>
<td>42423/C..</td>
<td>42424/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>42425/C..</td>
<td>42426/C..</td>
<td>42427/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-9,5 WŁ</td>
<td>1.5</td>
<td>42428/C..</td>
<td>42429/C..</td>
<td>42430/C..</td>
<td>9,5</td>
<td>3,7</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42431/C..</td>
<td>42432/C..</td>
<td>42433/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>42434/C..</td>
<td>42435/C..</td>
<td>42436/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-10 WŁ</td>
<td>1.5</td>
<td>42437/C..</td>
<td>42438/C..</td>
<td>42439/C..</td>
<td>10</td>
<td>3,7</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42440/C..</td>
<td>42441/C..</td>
<td>42442/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>42443/C..</td>
<td>42444/C..</td>
<td>42445/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-10,5 WŁ</td>
<td>1.5</td>
<td>42446/C..</td>
<td>42447/C..</td>
<td>42448/C..</td>
<td>10,5</td>
<td>4,2</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42449/C..</td>
<td>42450/C..</td>
<td>42450/C..</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>42452/C..</td>
<td>42453/C..</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-11 WŁ</td>
<td>1.5</td>
<td>42451/C..</td>
<td>42452/C..</td>
<td>-</td>
<td>11</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42453/C..</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-11,5 WŁ</td>
<td>1.5</td>
<td>42454/C..</td>
<td>-</td>
<td>-</td>
<td>11,5</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>42455/C..</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Connector SAL*

**Column with single extension arm**

SAL 8,5 WŁ: 1/1,5/3,2/5
TWO-PIECE COLUMNS WITH CURVED EXTENSION ARMS

Column with double extension arm
SAL 8,5 WŁ 2/1,5/3,2/5
B-70/2-70
B-71/2-71

Column with double extension arm
SAL 8,5 WŁ 3/1,5/3,2/5

connector SAL
screwed arm
double screwed arms

STREET LIGHTING / TWO-PIECE ALUMINIUM COLUMNS

TWO-PIECE COLUMNS WITH CURVED EXTENSION ARMS

Małogoszcz / Poland
Tychy / Poland

connector SAL
screwed arm
double screwed arms

STREET LIGHTING

L… – choice of anodising colour
STREET LIGHTING / DECORATIVE COLUMNS

DECORATIVE COLUMNS

C… – choice of anodising colour

B-60/Z-60
SAL DS-80
code: 42978/C..

SAL DS-81
code: 42937/C..

Bukareszt / Romania
DECORATIVE COLUMNS

STREET LIGHTING / DECORATIVE COLUMNS

- SAL DS-86
  - code: 42942/C..
  - B-60/Z-60
  - Ø60
  - 146
  - 250
  - 320
  - 400
  - 95
  - 600
  - 70

- SAL DS-87
  - code: 42976/C..

'Such a Beskidzka / Poland'

C… – choice of anodising colour
STREET LIGHTING / DECORATIVE COLUMNS

DECORATIVE COLUMNS

C… – choice of anodising colour

SAL DS-84
code: 42940/C..

SAL DS-88
code: 42988/C..

SAL DS-88-R
code 42991/C..B-70/Z-70

C… – choice of anodising colour
C… – choice of anodising colour
STREET LIGHTING / ALUMINIUM COLUMNS

LOWERING AND RAISING COLUMNS MP

- column can be laid on two flat surface perpendicular to the column wiring chamber,
- lowering and raising the column using a special mechanism,
- two types of mechanisms for lowering and raising the columns: manual mechanism (consisting of two clamps located on column separation point) and articulated mechanism (with an additional transmission enabling operation using an electric drill),
- purchase of one mechanism (manual or articulated) is sufficient to handle all types of columns.

Column double clamp device SAL---M/P

Columns with base plate

- SAL-85M/P code: 42930/C..
- SAL-90M/P code: 42931/C..
- SAL-95M/P code: 42932/C..
- SAL-100M/P code: 42933/C..

C... – choice of anodising colour
LOWERING AND RAISING COLUMNS M/P

Column diagram SAL-…M/P:
1. Mount mechanism (manual or articulated) on the column and double lock
2. Remove door of wiring chamber
3. Release 3 column securing bolts
4. Mount the drilling machine in mechanism
5. Lower of the column
6. Install/ maintain luminaire
7. Raise the column
8. Refit 3 column securing bolts
9. Refit column door
10. Remove double collar accessory
STREET LIGHTING / ALUMINIUM COLUMNS

LOWERING AND RAISING COLUMNS P

Designed for mounting on tennis courts, ski areas, car parks, gardens, residences, roadway junctions, airports, platforms, bridges and for difficult access areas.

Advantages:
- possibility of safe changing/maintenance of luminaire, camera, floodlight from ground level,
- low cost of maintenance accessories mounted on the top of the column,
- easy and safe way of lowering and raising column which can be performed by one person only,
- column can be laid on two flat surfaces which are perpendicular to the wiring chamber.

Technical information for lowering and raising columns SAL-…/P:
- inclination angle of column: from 0° to 90°,
- manual lowering and raising of column.

C… – choice of anodising colour

Columns with base plate
SAL-45/P code: 42915/C..
SAL-50/P code: 42916/C..
SAL-60/P code: 42925/C..
SAL-70/P code: 42927/C..

B-50/Z-50  B-51/Z-51
LOWERING AND RAISING COLUMNS P

Column diagram of column SAL-../P:
1. Remove door
2. Remove hinge securing bolt
3. Hold column and pull out hinge safety pin
4. Manually lower column
5. Install/ maintain the luminaire
6. Manually raise the column
7. Replace hinge safety pin and securing bolt
8. Refit column door
STREET LIGHTING / LIGHT MASTS

STRAIGHT LIGHT MASTS Ø225 MM

Columns with base plate
- MAL-12.5 code: 42501/C..
- MAL-13 code: 42502/C..
- MAL-14 code: 42504/C..
- MAL-15 code: 42506/C..
- MAL-16 code: 42508/C..

Reinforced columns
- MAL-12.5 wzm code: 42551/C..
- MAL-13 wzm code: 42552/C..
- MAL-14 wzm code: 42554/C..
- MAL-15 wzm code: 42556/C..

* Reinforcement of the tube with a thickness of 5 mm, up to height of 1150 mm.

Wrocław / Poland

connector MAL
WM EXTENSION ARMS FOR MASTS

- **application**: masts MAL with spigot ending Ø60 mm
- **material**: anodised aluminium alloy
- **luminaires**: floodlights

---

WM-1  
code: 474010/C...

WM-2  
code: 474020/C...

WM-21  
code: 474210/C...

WM-21 REG  
code: 474211/C...

WM-3  
code: 474030/C...

WM-31 REG  
code: 474311/C...

WM-4  
code: 474040/C...

WM-42  
code: 474420/C...

WM-5  
code: 474050/C...

WM-6  
code: 474060/C...

---

C… – choice of anodising colour
STREET LIGHTING / EXTENSION ARMS FOR MASTS

WRK EXTENSION ARMS FOR MASTS

- **application**: masts MAL with spigot ending Ø100 mm
- **material**: anodised aluminium alloy
- **luminaires**: floodlights, street luminaires

WRK-3
code: 475030/C…

WRK-4
code: 475040/C…

WRK-5
code: 475050/C…

WRK-6
code: 475060/C…

C… – choice of anodising colour
LIGHT MASTS WITH CURVED EXTENSION ARMS

Light masts

- MAL 12 WL 1/2,5/5,5/5 single code: 42509/C…
- MAL 12 WL 2/2,5/5,5/5 double code: 42510/C…
- MAL 13 WL 1/2,5/5,5/5 single code: 42511/C…
- MAL 13 WL 2/2,5/5,5/5 double code: 42512/C…
- MAL 14 WL 1/2,5/6,5/5 single code: 42513/C…
- MAL 14 WL 2/2,5/6,5/5 double code: 42514/C…

Connector MAL

Screwed arm

Connector MAL

B-80/Z-80
STREET LIGHTING / STREET LUMINAIRES

CUDDLE LED

- protection degree: IP66 for optic and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE X-TE or CREE XM-L2
- material: anodised aluminium alloy
- colour: inox/black (possibility of anodising in other colours)
- assembly: on extension arm
- recommended mounting height: from 6 to 12 m depending on the optics
- luminaire is adapted to work in temperatures between -40°C and +55°C
- optics: optics available for the removable module can be found on page 17 of the catalogue

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<td>CUDDLE LED 72 (XM-L2)</td>
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* due to the precision class of diodes, tolerance is +/-3%
STREET LIGHTING / STREET LUMINAIRES

FLOAT LED

- protection degree: IP66 for optic and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE X-TE or CREE XM-L2
- material: anodised aluminium alloy
- colour: inox/black (possibility of anodising in other colours)
- assembly: on extension arm
- recommended mounting height: from 6 to 12 m depending on the optics
- luminaire is adapted to work in temperatures between -40°C and +40°C
- optics: optics available for the removable module can be found on page 17 of the catalogue

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<td>20 150</td>
<td>130</td>
<td>745</td>
<td>9,6</td>
</tr>
</tbody>
</table>

* due to the precision class of diodes tolerance is +/-3%

- optics: optics available for the removable module can be found on page 17 of the catalogue
LUNOIDA

- **protection degree:** IP67 for optic, IP45 wiring chamber
- **insulation class:** I, II
- **material:**
  - body – die cast aluminium alloy
  - cover – UV resistant technical polymer
  - diffuser – flat tempered glass
  - reflector – pressed aluminium sheet
- **colour:** body – RAL 7038 structure, cover – plastic in RAL 7035
- **assembly:** pole top Ø60 mm ÷ 76 mm and length 100 mm or on extension arm
- **luminaire regulation:** 0° to 110° every 4,5°
- reposition the light source – for luminaire with light source up to 150 W

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Power [W]</th>
<th>Light source</th>
<th>Weight [kg]</th>
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<tr>
<td>LUNOIDA S-70</td>
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<td>100</td>
<td>Sodium E-40</td>
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<td>150</td>
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<td>8.9, 9.0</td>
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</table>
STREET LIGHTING / STREET LUMINAIRES

LUNOIDA LED

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: body and cover – die cast aluminium alloy
- colour: body and cover – RAL 7038
- assembly: pole top Ø60 mm ÷ 76 mm and length 100 mm or on extension arm
- height of mounting: 8-10 m
- luminaire regulation: 0° to 110° every 4.5°
- luminaire is adapted to work in temperatures between -40°C and +40°C

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<td>220234/3</td>
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<td>LUNOIDA LED 84</td>
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<td>220236/6</td>
<td>84 / 28</td>
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<tr>
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<td>96 / 32</td>
<td>105</td>
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* due to the precision class of diodes tolerance is +/3%
Distribution curve for luminaire
LUNOIDA LED
STREET LIGHTING / STREET LUMINAIRES

MAGNOLIA

- **protection degree**: IP66 for optics and wiring chamber
- **insulation class**: II
- **supply voltage**: 230 V AC
- **material**:
  - body and cover – die cast aluminium alloy
  - diffuser – slightly convex tempered glass, reflector: pressed aluminium sheet
- **colour**:
  - body – RAL 9006, cover – SILVER RENOIR (polyester powder paint)
- **assembly**:
  - pole top with spigot ending Ø60 mm and length 120 mm or on extension arm
- **luminaire regulation**:
  - from -5° to 20° every 2.5°
  - reposition of the light source – for the luminaire with light source up to 150 W
- **low windage factor 0.5

### Name Code Power [W] Light source Weight [kg]

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Power [W]</th>
<th>Light source</th>
<th>Weight [kg]</th>
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<tr>
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<td>Metal halide E-40</td>
<td>10.3</td>
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STREET LIGHTING / STREET LUMINAIRES

MAGNOLIA LED

- protection degree: IP66 for optics and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: XM-L2
- material: body and cover – die cast aluminium-alloy
- colour: body – RAL 9006, cover – SILVER RENOIR (polyester powder paint)
- assembly: pole top Ø60 mm or on extension arm
- recommended mounting height: 8-10 m
- luminaire regulation: from -5° to 20° every 2.5°
- luminaire is adapted to work in temperatures between -40˚C and +40˚C

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* due to the precision class of diodes tolerance is +/-3%
Luminaire MAGNOLIA LED
on the column SAL DS-84 with height of 8,4 m

Distribution curve for luminaire
MAGNOLIA LED

Ostrów Mazowiecki / Poland

STREET LIGHTING / STREET LUMINAIRES

MAGNOLIA LED
STREET LIGHTING / STREET LUMINAIRES

COSMO

• protection degree: IP66 for optics, IP44 for wiring chamber
• insulation class I
• material:
  – body – die cast aluminium alloy
  – cover – formed aluminium sheet
  – handle – COSMO: aluminium cast, COSMO ALFA: aluminium alloy
  – diffuser – flat tempered glass
  – reflector – pressed from polished aluminium sheet
• colours: polyester powder paint in any RAL colours
• assembly:
  – COSMO – designed for mounting on extension arm with spigot ending Ø60 and length 110 mm
  – COSMO ALFA – pole top mounted with spigot ending Ø60 and length 100 mm
• reposition the light source – for luminaire with light source up to 150 W

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Power [W]</th>
<th>Light source</th>
<th>Weight [kg]</th>
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Distribution curve for luminaire COSMO S-150 W

Distribution curve for luminaire COSMO S-250 W

Moskva / Russia

Leszno / Poland
STREET LIGHTING / STREET LUMINAIRES

COSMO LED

- **protection degree:** IP66 for optics and driver
- **insulation class:** II
- **supply voltage:** 120-277 V AC, 50/60 Hz
- **light source:** CREE XM-L2
- **material:**
  - body and handle – aluminium alloy
  - cover – formed aluminium sheet
- **standard colour:** inox/black (possibility of anodising in other colours)
- **assembly:**
  - COSMO LED ALFA – pole top mounted with spigot ending Ø60
    on the column 8-10 m high
  - COSMO LED – for mounting on extension arm with spigot ending Ø60
- **luminaire is adapted to work in temperatures between -40°C and +55°C**

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* due to the precision class of diodes tolerance ±1-3%
COSMO LED STREET LIGHTING / STREET LUMINAIRES

Luminaire COSMO LED on the column SAL DS-85 in the height of 8,16 m

Distribution curve for luminaire COSMO LED 72

Luminaire COSMO LED on the column SAL DS-85 in the height of 8,16 m
STREET LIGHTING / STREET LUMINAIRES

URSA I LED

- protection degree: IP66 for optics and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colours: inox/graphite (possibility of anodising in other colours)
- assembly:
  - URSA I LED – designed for mounting on extension arm Ø60
  - URSA I LED ALFA – pole top mounted Ø60 mm
- recommended mounting height: 6-8 m
- luminaire is adapted to work in temperatures between -40°C and +55°C

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* Due to the precision class of diodes tolerance is +/- 3%
Luminaire URSA I LED on the column SAL DL-1 in the height of 7 m

Busko Zdrój / Poland
STREET LIGHTING / STREET LUMINAIRES

URSA II LED

- protection degree: IP66 for optics and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colours: inox/graphite (possibility of anodising in other colours)
- assembly:
  - URSA II LED – designed for mounting on extension arm Ø60
  - URSA II LED ALFA – pole top mounted Ø60 mm on columns 8-12 m high
- luminaire is adapted to work in temperatures between -40°C and +55°C

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* due to the precision class of diodes tolerance is +/-3%
STREET LIGHTING
STREET LIGHTING / STREET LUMINAIRES

ANDROMEDA LED

- protection degree: IP66 for optics and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colours: inox/graphite (possibility of anodising in other colours)
- assembly: on extension arm Ø60
- recommended mounting height: 8-10 m
- luminaire is adapted to work in temperatures between -40°C and +55°C

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* due to the precision class of diodes tolerance is +/-3%

Distribution curve for luminaire ANDROMEDA LED

Luminaire ANDROMEDA LED on the column SAL P-81 in the height of 10 m
STREET LIGHTING / STREET LUMINAIRES

ARTEMIS LED

- protection degree: IP66 for optics and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colours: inox/black
- assembly: screwed to extension arm
- possibility to adjust the inclination angle from 0˚ to 180˚
- recommended mounting height: 8-10 m
- luminaire is adapted to work in temperatures between -40˚C and +55˚C
- mounting height depends on applied optical system

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* due to the precision class of diode tolerance is +/-1%
STREET LIGHTING / INDUSTRIAL LUMINAIRES

LIBRA LED

Industrial luminaire LIBRA LED is designed to illuminate the production halls, warehouses, petrol stations, etc. The luminaire is mounted in the ceiling after the preparation of the appropriate hole.

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colour: natural (possibility of anodising in other colours)

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* due to the precision class of diodes tolerance is +/-1%
Luminaire TAURUS LED is designed to illuminate the production halls, warehouses, magazines, etc.. Luminaire is suspended to the support construction.

- protection degree: IP66
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colour: natural (possibility of anodising in other colours)
- additional elements: diaphragm reducing glare

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* due to the precision class of diodes tolerance is +/- 3%
STREET LIGHTING / LIGHTING SETS

GULLWING LED

- protection degree: IP66 for optic and driver
- insulation class: II
- supply voltage: 120-277 V AC, 50/60 Hz
- light source: CREE XM-L2
- material: anodised aluminium alloy
- colour: inox/graphite (possibility of anodising in other colours)
- recommended mounting height: from 8 to 10 m in configuration on median (dividing roadway), depending on the optics
- luminaire is adapted to work in temperatures between -40°C and +55°C
- optics: optics available for the removable module can be found on page 17 of the catalogue

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* due to the precision class of deats tolerante to +/-3%
OTHER PRODUCTS / ALUMINIUM COLUMNS FOR TRAFFIC SIGNAL LIGHTS

STRAIGHT COLUMNS

Columns for traffic signal lights
Columns for traffic signal lights are designed for installing traffic lights on crossroads, pedestrian crossings etc.

Types of columns for traffic signal lights:
- straight columns
- columns with outreach
- gates

- material: anodised aluminium
- base plate: made of sheet aluminium, welded on a robotized workstation
- base diameter: Ø120 mm for straight columns and Ø225 mm for columns with outreach and for gates
- assembly: concrete footing or reinforcement basket

Columns with base plate

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<td>42802/C..</td>
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<tr>
<td>SAL SYG 36</td>
<td>42803/C..</td>
</tr>
<tr>
<td>SAL SYG 39</td>
<td>42804/C..</td>
</tr>
</tbody>
</table>

Fontenay-sous-Bois / France
B-50/Z-50
OTHER PRODUCTS / ALUMINIUM COLUMNS FOR TRAFFIC SIGNAL LIGHTS

COLUMNS WITH OUTREACH

Columns with base plate
- SAL SYG 65-4 code: 42810/C..
- SAL SYG 65-7 code: 42811/C..

Tychy / Poland

Bieruń / Poland

B-70/Z-70

STREET LIGHTING
OTHER PRODUCTS / ALUMINIUM COLUMNS FOR TRAFFIC SIGNAL LIGHTS

GATE

Columns with base plate

SAL SYG 8  code: 42830/C..
SAL SYG 14 code: 42831/C..

Connecting method of arms of extension arm

3 x M12
Flag poles are used to hang flags with area from $3 \text{ m}^2$ to $6 \text{ m}^2$

- **material**: anodised aluminium alloy
- **construction**: consists of two sections, bottom part – conical, upper part – cylindrical
- **routing head**: made of plastic, together with cord placed inside the pole which allows the flag to move depending on the wind direction
- **cord**: braided spiral, resistant, 4 mm diameter, white colour
- **flag bob**: grey plasticized metal
- **clamping rings for fixing flag**: 7 pieces as standard
- **niche chamber**: equipped in locks cord

Additional accessories for flag poles:
- **cross-bar for flag of the following lengths**: 1 m, 1,5 m, 2 m
- **top**: gold or silver decorative bal

### Table: Dimensions of Flag Poles

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Height [m]</th>
<th>Diameter at base plate [mm]</th>
<th>Thickness of the base [mm]</th>
<th>Concrete footing/reinforcement basket</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL MF 6-114</td>
<td>42950/C</td>
<td>6</td>
<td>4,5+0,2</td>
<td>1,5</td>
<td>Ø114</td>
</tr>
<tr>
<td>SAL MF 7-114-1</td>
<td>42951/C</td>
<td>7</td>
<td>4,5+0,2</td>
<td>2,5</td>
<td>Ø114</td>
</tr>
<tr>
<td>SAL MF 7-114-2</td>
<td>42952/C</td>
<td>7</td>
<td>4,5+0,2</td>
<td>2,5</td>
<td>Ø114</td>
</tr>
<tr>
<td>SAL MF 8-114</td>
<td>42953/C</td>
<td>8</td>
<td>4,5+0,2</td>
<td>3,5</td>
<td>Ø114</td>
</tr>
<tr>
<td>SAL MF 9-114</td>
<td>42954/C</td>
<td>9</td>
<td>4,5+0,2</td>
<td>4,5</td>
<td>Ø114</td>
</tr>
<tr>
<td>SAL MF 8-120</td>
<td>42955/C</td>
<td>8</td>
<td>6,0+0,2</td>
<td>2</td>
<td>Ø120</td>
</tr>
<tr>
<td>SAL MF 9-120</td>
<td>42956/C</td>
<td>9</td>
<td>6,0+0,2</td>
<td>3</td>
<td>Ø120</td>
</tr>
<tr>
<td>SAL MF 10-120</td>
<td>42957/C</td>
<td>10</td>
<td>6,0+0,2</td>
<td>4</td>
<td>Ø120</td>
</tr>
<tr>
<td>SAL MF 10-146</td>
<td>42958/C</td>
<td>10</td>
<td>6,82+0,2</td>
<td>3,18</td>
<td>Ø146</td>
</tr>
<tr>
<td>SAL MF 11-146</td>
<td>42959/C</td>
<td>11</td>
<td>6,82+0,2</td>
<td>4,18</td>
<td>Ø146</td>
</tr>
<tr>
<td>SAL MF 12-146</td>
<td>42960/C</td>
<td>12</td>
<td>6,82+0,2</td>
<td>5,18</td>
<td>Ø146</td>
</tr>
<tr>
<td>SAL MF 13-180</td>
<td>42961/C</td>
<td>13</td>
<td>9,82+0,2</td>
<td>3,18</td>
<td>Ø180</td>
</tr>
<tr>
<td>SAL MF 14-180</td>
<td>42962/C</td>
<td>14</td>
<td>9,82+0,2</td>
<td>4,18</td>
<td>Ø180</td>
</tr>
<tr>
<td>SAL MF 15-180</td>
<td>42963/C</td>
<td>15</td>
<td>9,82+0,2</td>
<td>5,18</td>
<td>Ø180</td>
</tr>
<tr>
<td>SAL MF 16-180</td>
<td>42964/C</td>
<td>16</td>
<td>9,82+0,2</td>
<td>6,18</td>
<td>Ø180</td>
</tr>
</tbody>
</table>
INDIVIDUAL PROJECTS
We make architects’ dreams come true and create entirely new solutions, which go beyond the standard catalogue offer. With us, even the most original ideas become reality.
OTHER PRODUCTS

ROSA outdoor lighting stands on solid foundations. We know how important is the base that’s why we provide our customers complete solutions, which include the concrete foundations and reinforcement baskets. We are also aware of the importance of the detail, therefore we enriched our offer with decorative elements, that you cannot pass by indifferently.
CONCRETE FOUNDATIONS

Application:
• buried concrete footings are used as foundations for lighting columns

Technical information:
• concrete class C25/30 according standard EN 206-1,
• steel reinforcement basket,
• screws spigot endings hot galvanized,
• concrete footings for aluminium columns and masts are supplied with thermo-shrinkable sleeves installed on the screws endings, what protects against corrosion on screw,
• side holes and vertical hole to provide power cables,
• surface is covered with an impregnate agent (certified asphalted anion emulsion),
• square section (aluminium columns and masts as well pole SP-5W and SP-31W) or round (plastic coated poles).

Advantages:
• single-element construction makes easy foundation of products in the ground,
• fast and easy assembly with no seasoning required,
• high quality due to the semi-automatic computer-controlled production line using the method of vibropressing.

All concrete footings comply with standard EN 14991:2007 and have Certificate of Factory Production Control 1488-CPD-0208/Z.

Concrete footings and reinforcement baskets in street lighting.

<table>
<thead>
<tr>
<th>Type of concrete footing</th>
<th>B-60</th>
<th>B-70</th>
<th>B-70</th>
<th>B-71</th>
<th>B-80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>311160</td>
<td>311170</td>
<td>311170B</td>
<td>311171</td>
<td>311180</td>
</tr>
<tr>
<td>Shape</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
</tr>
<tr>
<td>Size A x B x H [mm]</td>
<td>320 x 330 x 1000</td>
<td>400 x 410 x 1200</td>
<td>400 x 410 x 1100</td>
<td>400 x 410 x 1000</td>
<td>400 x 430 x 1500</td>
</tr>
<tr>
<td>Bolts spacing E [mm]</td>
<td>250</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Height of pin [mm]</td>
<td>35</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>50</td>
</tr>
<tr>
<td>Connection elements</td>
<td>4008/4009</td>
<td>4012/4013</td>
<td>4012/4013</td>
<td>4012/4013</td>
<td>4012</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of reinforcement basket</th>
<th>Z-60</th>
<th>Z-70</th>
<th>Z-70B</th>
<th>Z-71</th>
<th>Z-80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>311206</td>
<td>311207</td>
<td>311207B</td>
<td>311271</td>
<td>311208</td>
</tr>
<tr>
<td>Shape</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
</tr>
<tr>
<td>Height H [mm]</td>
<td>985</td>
<td>1190</td>
<td>1090</td>
<td>965</td>
<td>1500</td>
</tr>
<tr>
<td>Connection elements</td>
<td>4008/4009</td>
<td>4012/4013</td>
<td>4012/4013</td>
<td>4012/4013</td>
<td>4012</td>
</tr>
</tbody>
</table>

Application: SALØ146, SALØ176, SALØ178K, SALØ180M, SALØ146H, SALØ176, SAL Ø178K, SAL Ø180M, MALØ225
**ADDITIONAL ELEMENTS**

- Stainless washer, hot galvanized nut or hot galvanized ripable nut are the connection elements sets available for columns SAL, MAL.
- Stainless washer, hot galvanized nut, rubber cover plate for poles type S, SP, SM.

The manufacturer recommends using original concrete footings, reinforcement baskets and connection elements guarantee stability and safety of whole construction.

### Concrete footings and reinforcement baskets in park lighting.

<table>
<thead>
<tr>
<th>Type of concrete footing</th>
<th>B-20</th>
<th>B-30</th>
<th>B-40</th>
<th>B-40B</th>
<th>B-50A</th>
<th>B-50</th>
<th>B-51A</th>
<th>B-51</th>
<th>B-60</th>
<th>B-60T</th>
<th>B-71T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>311202</td>
<td>311203</td>
<td>311204</td>
<td>311204B</td>
<td>311205A</td>
<td>311205</td>
<td>311205A</td>
<td>311205</td>
<td>311206</td>
<td>311206T</td>
<td>311207T</td>
</tr>
<tr>
<td>Shape</td>
<td>round</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
</tr>
<tr>
<td>Size A x B x H (mm)</td>
<td>Ø250 x Ø255 x 700</td>
<td>Ø305 x Ø315 x 800</td>
<td>Ø305 x Ø315 x 1000</td>
<td>Ø305 x Ø315 x 400</td>
<td>240 x 255 x 1000</td>
<td>240 x 255 x 900</td>
<td>260 x 275 x 1200</td>
<td>260 x 275 x 1000</td>
<td>320 x 330 x 1000</td>
<td>320 x 330 x 1000</td>
<td>400 x 410 x 1000</td>
</tr>
<tr>
<td>Bolt spacing E (mm)</td>
<td>190</td>
<td>226</td>
<td>226</td>
<td>226</td>
<td>226</td>
<td>180</td>
<td>180</td>
<td>200</td>
<td>200</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td>Height of pin (mm)</td>
<td>50</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>30</td>
<td>30</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>90</td>
</tr>
<tr>
<td>Connection elements</td>
<td>311002</td>
<td>311003</td>
<td>311003</td>
<td>311003</td>
<td>4006 / 4007</td>
<td>4006 / 4007</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of reinforcement basket</th>
<th>Z-20</th>
<th>Z-30</th>
<th>Z-40</th>
<th>Z-40B</th>
<th>Z-50</th>
<th>Z-51A</th>
<th>Z-51</th>
<th>Z-60</th>
<th>Z-60T</th>
<th>Z-71T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>311202</td>
<td>311203</td>
<td>311204</td>
<td>311204B</td>
<td>311205</td>
<td>311205A</td>
<td>311205</td>
<td>311206</td>
<td>311206T</td>
<td>311207T</td>
</tr>
<tr>
<td>Shape</td>
<td>triangle</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
<td>square</td>
</tr>
<tr>
<td>Height H (mm)</td>
<td>700</td>
<td>825</td>
<td>1025</td>
<td>935</td>
<td>975</td>
<td>975</td>
<td>975</td>
<td>975</td>
<td>975</td>
<td>975</td>
</tr>
<tr>
<td>Connection elements</td>
<td>311002</td>
<td>311003</td>
<td>311003</td>
<td>311003</td>
<td>4006 / 4007</td>
<td>4006 / 4007</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
<td>4008 / 4009</td>
</tr>
</tbody>
</table>

|------------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
OTHER PRODUCTS / CONNECTION BOXES

CONNECTION BOXES

Connection box is an integral part of almost any lighting construction. It is used to connect power cables and electrical protection of luminaires mounted on columns and poles. It can be used in all columns and poles, where internal diameter is greater than 95 mm. The priority in the design of connection boxes is the safety of use, therefore they are made from high quality materials, excellent insulation properties and high mechanical strength.

- **protection degree**: IP54
- **insulation class**: II
- **rated voltage**: 500V
- **rated current**: 80A
- **fuse**: D01/E14, 2-16 A, 400 V, AC
- **casing dimensions**: 1. TB, NTB: 273 mm x 90 mm x 76 mm (for TB-11, TB-12: 273 mm x 90 mm x 64 mm)
- **material**:
  - integrated terminal strip – made of PTB material (butylene polyterephtalate), with high insulation parameters and high mechanical resistance
  - connection cover and clamp/cable protection – made of transparent polycarbonate
  - connection box base – made of polycarbonate reinforced by fibre glass, cable opening/outlets are protected with gaskets
- **assembly**: installed on the aluminium rail on the back wall of the column using two screws M6

Advantages:
- small dimensions,
- quick, easy mounting due to the construction,
- all connection boxes are for 2-3 cables,
- construction of terminal strip (open from the top) enables cable installation.

<table>
<thead>
<tr>
<th>Fuses</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D01/E14 6A</td>
<td>0.01</td>
</tr>
<tr>
<td>D01/E14 10A</td>
<td>0.01</td>
</tr>
<tr>
<td>D01/E14 16A</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Connection box installed in aluminium column
Connection box installed in plastic coated pole
CONNECTION BOXES NTB

- 5 tracks connection boxes for feeder cables with cross-section from 5 x 6 mm² up to 5 x 16 mm²
- max. 3 cables
- the possibility of splitting load into particular phases
- the possibility of moving the fuse-sockets

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Number of fuse-sockets (pcs)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTB-1</td>
<td>324110</td>
<td>fuse-socket mounted on L1 phase, there is a possibility of moving the fuse-socket on phase L2 or L3 by screwing-out two bolts</td>
<td>0.71</td>
</tr>
<tr>
<td>NTB-2</td>
<td>324120</td>
<td>fuse-socket mounted on L1 and L2 phase, there is a possibility of moving the fuse-socket into phase L3 by screwing-out two bolts</td>
<td>0.73</td>
</tr>
<tr>
<td>NTB-3</td>
<td>324130</td>
<td>fuse-sockets on three phases L1, L2, L3.</td>
<td>0.76</td>
</tr>
</tbody>
</table>

The possibility of moving the fuse-sockets in the connection box NTB-1

CONNECTION BOXES TB

Connection boxes TB-1 and TB-2
- connection box with 4 tracks for feeder cables with cross-section from 4 x 10 mm² up to 4 x 35 mm²
- max. 3 cables
- the possibility of moving the fuse-sockets

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Number of fuse-sockets (pcs)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB-1</td>
<td>324010</td>
<td>fuse-socket mounted on L1 phase, there is a possibility of moving the fuse-socket on phase L3 by screwing-out two bolts</td>
<td>0.71</td>
</tr>
<tr>
<td>TB-2</td>
<td>324020</td>
<td>fuse-socket mounted on two phases L1 and L2</td>
<td>0.74</td>
</tr>
</tbody>
</table>

Connection boxes TB-11 and TB-12
- connection box with 4 tracks for feeder cables with cross-section from 4 x 10 mm² up to 4 x 35 mm²
- max. 2 cables
- simplified installation of cables ensure easier and more ergonomic operation
- smaller size provides more opportunities of applications
- the possibility of moving the fuse-sockets

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Number of fuse-sockets (pcs)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB-11</td>
<td>324011</td>
<td>fuse-socket mounted on L1 phase, there is a possibility of moving the fuse-socket on phase L2 by screwing-out two bolts</td>
<td>0.71</td>
</tr>
<tr>
<td>TB-12</td>
<td>324012</td>
<td>fuse-socket mounted on two phases L1 and L2</td>
<td>0.74</td>
</tr>
</tbody>
</table>
DECORATIVE ELEMENTS

- **application**: aluminium columns with spigot endings Ø60 mm and Ø76 mm
- **protection degree**: IP20
- **insulation class**: II
- **voltage**: 220-240 V, AC, 50/60 Hz
- **material**: PMMA
- **colours**: blue, green, red, white
- **LED module**: LED CREE XP-E
- **LED power**: 1 W – small shining spike and shining ball, 9 W – big shining spike
- **assembly**: with 3 screws MS, after mounting holes in the column

<table>
<thead>
<tr>
<th>Name</th>
<th>Colour</th>
<th>Code/mounting diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ø76</td>
</tr>
<tr>
<td>Big shining spike</td>
<td>Blue</td>
<td>4 038</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>4 039</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>4 040</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>4 041</td>
</tr>
<tr>
<td>Small shining spike</td>
<td>Blue</td>
<td>4 050</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>4 051</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>4 052</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>4 053</td>
</tr>
<tr>
<td>Shining ball</td>
<td>Blue</td>
<td>4 046</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>4 047</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>4 048</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>4 049</td>
</tr>
</tbody>
</table>
DECORATIVE ELEMENTS

- Big shining spike
- Small shining spike
- Shining ball
<table>
<thead>
<tr>
<th>Column type</th>
<th>Code</th>
<th>Column height H (m)</th>
<th>Net weight (kg)</th>
<th>Approximate unit volume ( [m^3] ) *</th>
<th>Permissible mass of luminaire and extension arms (kg)</th>
<th>Top mounted luminaires</th>
<th>Type of used extension arms</th>
<th>Type of concrete footing</th>
<th>Type of reinforcement basket</th>
<th>Connection elements [code]</th>
<th>Rivets connection elements [code]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARK LIGHTING</td>
<td>Straight aluminium columns Ø114 mm base diameter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-3/B60 anodised</td>
<td>42120/C…</td>
<td>3,00</td>
<td>8,30</td>
<td>0,067</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-3,5/B60 anodised</td>
<td>42101/C…</td>
<td>3,50</td>
<td>9,80</td>
<td>0,078</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-4/B60 anodised</td>
<td>42102/C…</td>
<td>4,00</td>
<td>11,40</td>
<td>0,090</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAL-4,5/B60 anodised</td>
<td>42103/C…</td>
<td>4,50</td>
<td>12,90</td>
<td>0,100</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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General characteristics of aluminium lighting columns and masts with base plate.
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<th>Approximate unit volume [m³]*</th>
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<th>Top mounted luminaires</th>
<th>Type of used extension arms</th>
<th>Type of concrete footing</th>
<th>Type of reinforcement basket</th>
<th>Connection elements [code]</th>
<th>Rivets connection elements [code]</th>
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## STREET LIGHTING

### Straight aluminium columns Ø146 mm base diameter

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<th>Approximate unit volume [m³]</th>
<th>Permissible mass of luminaire and extension arms [kg]</th>
<th>Top mounted luminaires</th>
<th>Type of used extension arms</th>
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<th>Type of reinforcement basket</th>
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<td>0,271</td>
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<td>27,70</td>
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<td>street luminaires floodlights</td>
<td>WA-4, WA-5/1, WA-14/1, WA-14/2, WA-15/1, WA-15/2, WA-20/1, WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-2/3, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-6A/2, WR-8A/1, WR-8A/2, WR-13/1, WR-13/2, WR-13/3, WR-14/1, WR-15/1, WR-15/2, WR-18, WR-31, WR-61, WN-1, WN-2, WN-23</td>
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<td>Code</td>
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<td>Net weight [kg]</td>
<td>Approximate unit volume ([m³]) *</td>
<td>Permissible mass of luminaire and extension arms [kg]</td>
<td>Top mounted luminaires</td>
<td>Type of used extension arms</td>
<td>Type of concrete footing</td>
<td>Type of reinforcement basket</td>
<td>Connection elements [code]</td>
<td>Rivets connection elements [code]</td>
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<td>Aluminium columns Ø146 mm base diameter with welded extension arms</td>
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<td>Aluminium columns Ø176 mm base diameter with curved extension arms</td>
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<td>street luminaires with fixing Ø60 and the parameters of weight and windage not exceeding the data of strength table located in the product card</td>
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<td>Column type</td>
<td>Code</td>
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<td>Net weight [kg]</td>
<td>Approximate unit volume [m³]</td>
<td>Permissible mass of luminaire and extension arms [kg]</td>
<td>Top mounted luminaires</td>
<td>Type of used extension arms</td>
<td>Type of concrete footing</td>
<td>Type of reinforcement basket</td>
<td>Connection elements [code]</td>
<td>Rivets connection elements [code]</td>
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<td>SAL 8,5 WŁ3/1,5/3,2/5 triple anodised</td>
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**Straight aluminium columns Ø176 mm base diameter**

| SAL-9,3 anodised | 42456/C… | 9,30 | 47,60 | 0,437 | 30 |
| SAL-9,8 anodised | 42457/C… | 9,80 | 50,30 | 0,473 | 30 |
| SAL-10,3 anodised | 42458/C… | 10,30 | 53,90 | 0,509 | 30 |
| SAL-10,8 anodised | 42459/C… | 10,80 | 56,00 | 0,513 | 30 |
| SAL-11,3 anodised | 42460/C… | 11,30 | 57,00 | 0,516 | 30 |
| SAL-11,8 anodised | 42461/C… | 11,80 | 60,20 | 0,550 | 30 |

Street luminaires with fixing Ø60 and the parameters of weight and windage not exceeding the data of strength table located in the product card:

WR-1/1, WR-4/1, WN-1, additional:
WR-2/2, WR-3/2, WR-15/2 (only to the height 9,3 m), WR-4/2, WR-61, WN-21 (only to the height 9,3 m), WR-1/2, WR-13/1, WR-15/1, WN-2 (only to the height 10,3 m), WR-2/1, WR-3/1, (only to the height 10,8 m), WR-2/1, WR-3/1, (only to the height 10,8 m),
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<tr>
<th>Column type</th>
<th>Code</th>
<th>Column height H [m]</th>
<th>Net weight [kg]</th>
<th>Approximate unit volume [m³]</th>
<th>Permissible mass of luminaire and extension arms [kg]</th>
<th>Top mounted luminaires</th>
<th>Type of used extension arms</th>
<th>Type of concrete footing</th>
<th>Type of reinforcement basket</th>
<th>Connection elements [code]</th>
<th>Rivets connection elements [code]</th>
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<td>SAL-9,3 wzm anodised</td>
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<td>9,30</td>
<td>53,50</td>
<td>0,432</td>
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<td>street luminaires with fixing Ø60 and windage not exceeding the data of strength table located in the product card</td>
<td>WR-1/1, WR-2/1, WR-3/1, WR-4/1, WN-1, additional: WR-2/3, WR-3/3, WR-13/2, WR-15/2, WN-3 (only to the height 10,8 m), WR-2/2, WR-3/2 (only to the height 11,3 m), WR-1/2, WR-4/2, WR-61, WN-2, WN-21 (only to the height 11,8 m), WR-13/1, WR-15/1 (only to the height 12,3 m)</td>
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<td>Z-70</td>
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<td>4013</td>
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<td>Z-70</td>
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<td>Z-70</td>
<td>4012</td>
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<td>SAL-10,8 wzm anodised</td>
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<td>63,20</td>
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<td>B-70</td>
<td>Z-70</td>
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<td>4013</td>
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<td>Z-70</td>
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<td>Z-70</td>
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<tr>
<td>SAL-12,3 wzm anodised</td>
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<td>69,90</td>
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<td>Z-70</td>
<td>4012</td>
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<tr>
<td>Aluminium columns Ø176 mm base diameter with welded extension arms</td>
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<td>42464/C…</td>
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<td>2,240</td>
<td>15</td>
<td>street luminaires with fixing Ø60 and Ø42</td>
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<td>42469/C…</td>
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<td>56,50</td>
<td>0,916</td>
<td>15</td>
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<td>B-70</td>
<td>Z-70</td>
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<td>SAL-U1 anodised</td>
<td>42465/C…</td>
<td>9,30</td>
<td>51,00</td>
<td>1,790</td>
<td>15</td>
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<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
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<td>SAL-T1 wzm anodised</td>
<td>42466/C…</td>
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<td>67,30</td>
<td>1,120</td>
<td>15</td>
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<td>Z-70</td>
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<td>SAL-Z1 wzm anodised</td>
<td>42467/C…</td>
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<td>53,00</td>
<td>0,980</td>
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<td>SAL-P11 anodised</td>
<td>42481/C…</td>
<td>10,30</td>
<td>59,40</td>
<td>1,030</td>
<td>15</td>
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<td>B-70</td>
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<td>SAL-P12 anodised</td>
<td>42482/C…</td>
<td>10,30</td>
<td>64,30</td>
<td>1,420</td>
<td>15</td>
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<td>SAL-P21 anodised</td>
<td>42483/C…</td>
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<td>57,10</td>
<td>0,980</td>
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<td>Z-70</td>
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<tr>
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<td>42484/C…</td>
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<td>0,800</td>
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<td>SAL-P81 anodised</td>
<td>42489/C…</td>
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<td>58,80</td>
<td>0,803</td>
<td>15</td>
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<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
<td>4013</td>
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<tr>
<td>Straight aluminium mast Ø225 mm base diameter</td>
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<tr>
<td>MAL-12,5 anodised</td>
<td>42501/C…</td>
<td>12,50</td>
<td>93,80</td>
<td>0,640</td>
<td>15</td>
<td>street luminaires with fixing Ø60 and windage not exceeding the data of strength table located in the product card</td>
<td>WM-1, WM-2, WM-21, additional: WRK-5 (only to the height 13 m), WRK-3, WRK-4, WM-6, WM-5, WM-3, WM-4 (only to the height 14 m), WRK-6 (only to the height 15 m)</td>
<td>B-80</td>
<td>Z-80</td>
<td>4014</td>
<td>4014</td>
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<tr>
<td>MAL-13 anodised</td>
<td>42502/C…</td>
<td>13,00</td>
<td>98,70</td>
<td>0,680</td>
<td>15</td>
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<td>B-80</td>
<td>Z-80</td>
<td>4014</td>
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<tr>
<td>MAL-14 anodised</td>
<td>42504/C…</td>
<td>14,00</td>
<td>107,60</td>
<td>0,760</td>
<td>15</td>
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<td>B-80</td>
<td>Z-80</td>
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<td>42506/C…</td>
<td>15,00</td>
<td>111,10</td>
<td>0,770</td>
<td>15</td>
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<td>B-80</td>
<td>Z-80</td>
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<td>42508/C…</td>
<td>16,00</td>
<td>115,20</td>
<td>0,780</td>
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<td>B-80</td>
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<td>101,20</td>
<td>0,640</td>
<td>15</td>
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<td>MAL-13 wzm anodised</td>
<td>42552/C…</td>
<td>13,50</td>
<td>106,20</td>
<td>0,680</td>
<td>15</td>
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<td>B-80</td>
<td>Z-80</td>
<td>4014</td>
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<td>MAL-14 wzm anodised</td>
<td>42554/C…</td>
<td>14,00</td>
<td>114,90</td>
<td>0,760</td>
<td>15</td>
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<td>B-80</td>
<td>Z-80</td>
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<td>118,40</td>
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<td>16,00</td>
<td>122,50</td>
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<td>Approximate unit volume [m³] *</td>
<td>Permissible mass of luminaire and extension arms [kg]</td>
<td>Top mounted luminaires</td>
<td>Type of used extension arms</td>
<td>Type of concrete footing</td>
<td>Type of reinforcement basket</td>
<td>Connection elements [code]</td>
<td>Rivets connection elements [code]</td>
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<td>Aluminium masts Ø225 mm base diameter with curved extension arms</td>
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<td>12,00</td>
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<td>0,840</td>
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<td>101,20</td>
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<td>street luminaires with fixing B60 and the parameters of weight and windage not exceeding the data of strength table located in the product card</td>
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<td>MAL-13 WL 2/2,5/5,5/5 double anodised</td>
<td>42512/C...</td>
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<td>1,210</td>
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<tr>
<td>MAL-14 WL 2/2,5/5,5/5 double anodised</td>
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<td>1,270</td>
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<td>Straight aluminium columns Ø178 mm base diameter</td>
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<td>0,589</td>
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<td>0,654</td>
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<tr>
<td>Straight aluminium columns Ø180 mm base diameter</td>
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<tr>
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<td>42755/C...</td>
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<td>42,7</td>
<td>0,523</td>
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<td>luminaires with fixing B60 and the parameters of weight and windage not exceeding the data of strength table located in the product card</td>
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<td>Permissible mass of luminaire and extension arms [kg]</td>
<td>Top mounted luminaires</td>
<td>Type of concrete footing</td>
<td>Type of reinforcement basket</td>
<td>Connection elements [code]</td>
<td>Rivets connection elements [code]</td>
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<td>42757/C...</td>
<td>9,0</td>
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<td>0,589</td>
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<td>Luminaire with fixing Ø60 and the parameters of weight and windage not exceeding the data of strength table located in the product card</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-2/3, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-6A/2, WR-13/1, WR-13/2, WR-13/3, WR-14/1, WR-15/1, WR-15/2, WR-15/3, WR-17/1, WR-17/2, WR-18, WR-18A, WR-61, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/0,7/5, WRP1/1,5/1,2/5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,2/5, WRP3/1,0/0,7/5, WRP3/1,0/1,2/5, WN-1, WN-2, WN-21, WN-3, WN-4, WN-42</td>
<td>B-70 or B-71</td>
<td>Z-70 or Z-71</td>
<td>4012</td>
<td>4013</td>
</tr>
<tr>
<td>SAL-100M anodised</td>
<td>42759/C...</td>
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<td>55,1</td>
<td>0,654</td>
<td>30</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-2/3, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-6A/2, WR-13/1, WR-13/2, WR-13/3, WR-14/1, WR-15/1, WR-15/2, WR-15/3, WR-18, WR-51, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/0,7/5, WRP1/1,5/1,2/5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP3/1,0/0,7/5, WRP3/1,0/1,2/5, WN-1, WN-2, WN-21, WN-3, WN-4, WN-42</td>
<td>B-70 or B-71</td>
<td>Z-70 or Z-71</td>
<td>4012</td>
<td>4013</td>
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</tbody>
</table>

### Columns for traffic signal lights

| Shup SAL SYG 3 anodised natural | 42801/C... | 3,0 | 13,3 | 0,083 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-50 | Z-50 | 4006 | 4007 |
| Shup SAL SYG 3,3 anodised natural | 42802/C... | 3,3 | 14,4 | 0,091 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-50 | Z-50 | 4006 | 4007 |
| Shup SAL SYG 3,6 anodised natural | 42803/C... | 3,6 | 15,6 | 0,099 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-50 | Z-50 | 4006 | 4007 |
| Shup SAL SYG 3,9 anodised natural | 42804/C... | 3,9 | 16,7 | 0,107 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-50 | Z-50 | 4006 | 4007 |
| Shup SAL SYG 65-4 anodised natural | 42810/C... | 6,5 | 90,2 | 0,840 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-80 | Z-80 | 4014 |
| Shup SAL SYG 65-7 anodised natural | 42811/C... | 6,5 | 119,4 | 1,040 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-80 | Z-80 | 4014 |
| Shup SAL SYG 8 anodised natural | 42830/C... | 6,5 | 186,0 | 1,680 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-80 | Z-80 | 4014 |
| Shup SAL SYG 14 anodised natural | 42831/C... | 6,5 | 243,1 | 2,080 | 30 | Lights and signs with fixing Ø100 and the parameters of weight and windage not exceeding the data of strength table located in the product card | B-80 | Z-80 | 4014 |

### Decorative aluminium columns

<p>| SAL DS-80 anodised | 42978/C... | 7,80 | 42,8 | 1,520 | 10 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-60 | Z-60 | 4008 | 4009 |
| SAL DS-81 anodised | 42937/C... | 7,82 | 36,0 | 0,607 | 20 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-60 | Z-60 | 4008 | 4009 |
| SAL DS-84 anodised | 42940/C... | 8,40 | 48,2 | 1,570 | 20 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-60 | Z-60 | 4008 | 4009 |
| SAL DS-86 anodised | 42942/C... | 7,70 | 36,2 | 0,790 | 20 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-60 | Z-60 | 4008 | 4009 |
| SAL DS-87 anodised | 42976/C... | 6,60 | 34,1 | 0,661 | 15 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-70 | Z-70 | 4012 | 4013 |
| SAL DS-88 anodised | 42988/C... | 9,40 | 60,6 | 1,895 | 15 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-70 | Z-70 | 4012 | 4013 |
| SAL DS-88-R anodised | 42991/C... | 9,40 | 83,3 | 1,963 | 15 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-70 | Z-70 | 4012 | 4013 |
| SAL DB anodised | 42992/C... | 9,40 | 142,6 | 3,860 | 20 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-60 | Z-60 | 4008 | 4009 |
| SAL DB-1 anodised | 42990/C... | 9,41 | 116,1 | 2,620 | 15 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-70 | Z-70 | 4012 | 4013 |
| SAL DL-1 anodised | 42993/C... | 7,00 | 32,7 | 1,090 | 15 | Street luminaires with fixing Ø60 and parameters of weights from strength table which is located in the product card | B-70 | Z-70 | 4012 | 4013 |</p>
<table>
<thead>
<tr>
<th>Column type</th>
<th>Code</th>
<th>Column height H [m]</th>
<th>Net weight [kg]</th>
<th>Approximate unit volume of luminaire and extension arms [m³]</th>
<th>Permissible mass of luminaire and extension arms [kg]</th>
<th>Top mounted luminaires</th>
<th>Type of concrete footing</th>
<th>Type of reinforcement basket</th>
<th>Connection elements [code]</th>
<th>Rivets connection elements [code]</th>
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</thead>
<tbody>
<tr>
<td>SAL-45/P anodised</td>
<td>42915/C...</td>
<td>4,5</td>
<td>27,6</td>
<td>0,130</td>
<td>13,5</td>
<td>WR-1/1, WR-4/1, WN-1, WA-1, WA-4, WA-5/1, WA-14/1.</td>
<td>B-51/</td>
<td>Z-51</td>
<td>4008</td>
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<tr>
<td>SAL-50/P anodised</td>
<td>42916/C...</td>
<td>5,0</td>
<td>23,8</td>
<td>0,145</td>
<td>10,5</td>
<td>WR-1/1, WR-4/1, WN-1, WA-1, WA-4, WA-5/1, WA-14/1.</td>
<td>B-51/</td>
<td>Z-51</td>
<td>4008</td>
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<tr>
<td>SAL-60/P anodised</td>
<td>42925/C...</td>
<td>6,0</td>
<td>29,7</td>
<td>0,174</td>
<td>6</td>
<td>WR-1/1, WR-4/1, WN-1, WA-1, WA-4, WA-5/1, WA-14/1.</td>
<td>B-51A</td>
<td>Z-51A</td>
<td>4008</td>
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<tr>
<td>SAL-70/P anodised</td>
<td>42927/C...</td>
<td>7,0</td>
<td>33,0</td>
<td>0,203</td>
<td>10</td>
<td>WR-1/1, WR-4/1, WN-1, WA-1, WA-4, WA-5/1, WA-14/1.</td>
<td>B-51A</td>
<td>Z-51A</td>
<td>4008</td>
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<tr>
<td>SAL-85M/P anodised</td>
<td>42930/C...</td>
<td>8,5</td>
<td>51,1</td>
<td>0,556</td>
<td>42</td>
<td>WR-1/1, WR-4/1, WN-1, WA-1, WA-4, WA-5/1, WA-14/1.</td>
<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
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<tr>
<td>SAL-90M/P anodised</td>
<td>42931/C...</td>
<td>9,0</td>
<td>54,4</td>
<td>0,589</td>
<td>37,5</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-8/1, WR-8A/1, WR-9/1, WR-11/1, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-17/1, WR-18, WR-18A, WR-18B, WR-61, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/0,7/5, WRP1/1,5/1,2/5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,2/5, WRP2/1,5/1,2/5, WRP2/1,5/1,2/5, WN-1, WN-2, WN-21</td>
<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
<td></td>
</tr>
<tr>
<td>SAL-95M/P anodised</td>
<td>42932/C...</td>
<td>9,5</td>
<td>57,6</td>
<td>0,621</td>
<td>33</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-8/1, WR-8A/1, WR-9/1, WR-11/1, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-17/1, WR-18, WR-18A, WR-18B, WR-61, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/0,7/5, WRP1/1,5/1,2/5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,2/5, WN-1, WN-2, WN-21</td>
<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
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<tr>
<td>SAL-100M/P anodised</td>
<td>42933/C...</td>
<td>10,0</td>
<td>60,2</td>
<td>0,654</td>
<td>28,5</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-8/1, WR-8A/1, WR-9/1, WR-11/1, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-17/1, WR-18, WR-18A, WR-18B, WR-61, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/0,7/5, WRP1/1,5/1,2/5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,2/5, WN-1, WN-2, WN-21</td>
<td>B-70</td>
<td>Z-70</td>
<td>4012</td>
<td></td>
</tr>
</tbody>
</table>

**Aluminium lowering and raising columns**

**Luminaires with fixing Ø60 and windage not exceeding the data of strength table located in the product card**

**Additional:**

- WR-17/2, (only to the height 8,5 m), WR-9/2, (only to the height 9,5 m)
## PARK LIGHTING

<table>
<thead>
<tr>
<th>Column type</th>
<th>Code</th>
<th>Column height above the ground H [m]</th>
<th>Column height above the ground H+h [m]</th>
<th>Net weight [kg]</th>
<th>Approximate unit volume [m³]</th>
<th>Top mounted luminaires</th>
<th>Type of extension arms</th>
<th>Permissible mass of luminaire and extension arms [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Straight aluminium columns Ø114 mm base diameter</strong></td>
<td></td>
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<tr>
<td>SAL-3/860 dZ anodised</td>
<td>42124/C…</td>
<td>3.00</td>
<td>3.80</td>
<td>9.1</td>
<td>0.02</td>
<td>OP, OPA-1, OS-1, OS-11 LED, OZ, ELBA, ELBA LED, ATLANTIS LED, MIRA LED, MIZAR LED, VEGA LED ALFA, VEGA LED BETA</td>
<td>WA-1, WA-4, WA-14/1</td>
<td>20</td>
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<tr>
<td>SAL-3.5/860 dZ anodised</td>
<td>42108/C…</td>
<td>3.50</td>
<td>4.30</td>
<td>11</td>
<td>0.03</td>
<td></td>
<td></td>
<td>20</td>
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<tr>
<td>SAL-4/860 dZ anodised</td>
<td>42111/C…</td>
<td>4.00</td>
<td>4.80</td>
<td>12.4</td>
<td>0.04</td>
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<tr>
<td>SAL-4.5/860 dZ anodised</td>
<td>42107/C…</td>
<td>4.50</td>
<td>5.30</td>
<td>13.8</td>
<td>0.04</td>
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</tbody>
</table>

| **Straight aluminium columns Ø120 mm base diameter** |          |                                      |                                        |                 |                               |                                                                                       |                                                                  |                                                      |
| SAL-4 dZ anodised           | 42231/C… | 4.00                                 | 4.80                                   | 16.8            | 0.04                          | OP, OPA-1, OS-1, OS-11 LED, OZ, ELBA, ELBA LED, ATLANTIS LED, MIRA LED, MIZAR LED, VEGA LED ALFA, VEGA LED BETA | WA-1, WA-4, WA-5/1, WA-14/1, WA-14/2, WR-1/1, WR-4/1, WN-1, WN-2 | 20                                                   |
| SAL-4.5 dZ anodised         | 42232/C… | 4.50                                 | 5.30                                   | 18.8            | 0.04                          |                                                                                       |                                                                  | 20                                                   |
| SAL-5 dZ anodised           | 42233/C… | 5.00                                 | 5.80                                   | 20.9            | 0.05                          |                                                                                       |                                                                  | 20                                                   |

<p>| <strong>Straight aluminium columns Ø146 mm base diameter</strong> |          |                                      |                                        |                 |                               |                                                                                       |                                                                  |                                                      |
| SAL-5.5 dZ anodised         | 42322/C… | 5.50                                 | 6.30                                   | 27.2            | 0.07                          | OP, OPA-1, OZ, ELBA, ELBA LED, ATLANTIS LED, MIRA LED, MIZAR LED, VEGA LED ALFA, VEGA LED BETA | WA-1, WA-4, WA-5/1, WA-5/2, WA-14/1, WA-14/2, WA-20/1 | 30                                                   |
| SAL-6.0 dZ anodised         | 42323/C… | 6.00                                 | 6.80                                   | 29.6            | 0.08                          | OP, OPA-1, ELBA, MIRA LED, MIZAR LED, VEGA LED ALFA, VEGA LED BETA                     |                                                                  |                                                       |
| <strong>Decorative aluminium columns</strong> |          |                                      |                                        |                 |                               |                                                                                       |                                                                  |                                                      |
| SAL DP-38 dZ anodised       | 42965/C… | 3.00                                 | 3.80                                   | 12.7            | 0.03                          | OP, OPA-1, OS-1, OS-11 LED, OZ, ELBA, ELBA LED, ATLANTIS LED, MIRA LED, MIZAR LED, VEGA LED ALFA, VEGA LED BETA |                                                                  | 20                                                   |
| SAL DP-48 dZ anodised       | 42966/C… | 4.00                                 | 4.80                                   | 15.2            | 0.04                          |                                                                                       |                                                                  | 20                                                   |
| SAL DP-58 dZ anodised       | 42967/C… | 5.00                                 | 5.80                                   | 17.8            | 0.05                          |                                                                                       |                                                                  | 20                                                   |</p>
<table>
<thead>
<tr>
<th>Column type</th>
<th>Code</th>
<th>Column height above the ground H [m]</th>
<th>Total length of the column H+h [m]</th>
<th>Net weight [kg]</th>
<th>Approximate unit volume [m³]</th>
<th>Top mounted luminaires</th>
<th>Type of extension arms</th>
<th>Permissible mass of luminaire and extension arms [kg]</th>
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<tbody>
<tr>
<td>STREET LIGHTING</td>
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<tr>
<td>Straight aluminium columns Ø146 mm base diameter</td>
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<tr>
<td>SAL-60 dZ anodised</td>
<td>42323/C...</td>
<td>6,00</td>
<td>6,80</td>
<td>29,6</td>
<td>0,08</td>
<td>WA-15/1/1, WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-5A/1, WR-5A/2, WR-6A/1, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-18, WR-61, WN-1, WN-2, WN-21</td>
<td>street luminaires</td>
<td>30</td>
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<tr>
<td>SAL-70 dZ anodised</td>
<td>42325/C...</td>
<td>7,00</td>
<td>8,00</td>
<td>32,5</td>
<td>0,09</td>
<td>WA-15/1/1, WR-1/1, WR-1/2, WR-2/1, WR-3/1, WR-4/1, WR-4/2, WR-13/1, WR-13/2, WR-15/1, WN-1, WN-2, WN-21</td>
<td>street luminaires</td>
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<tr>
<td>Straight aluminium columns Ø178 mm base diameter</td>
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<tr>
<td>SAL-80K dZ anodised</td>
<td>42606/C...</td>
<td>8,00</td>
<td>9,50</td>
<td>40,8</td>
<td>0,11</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-15/3, WR-17/1, WR-17/2, WR-18, WR-18A, WR-41, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/1,5/2,5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WN-1, WN-2, WN-21, WN-3</td>
<td>street luminaires</td>
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<tr>
<td>SAL-85K dZ anodised</td>
<td>42607/C...</td>
<td>8,50</td>
<td>10,00</td>
<td>43,2</td>
<td>0,11</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-13/1, WR-13/2, WR-14/1, WR-15/1, WR-15/2, WR-15/3, WR-17/1, WR-17/2, WR-18, WR-18A, WR-41, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/1,5/2,5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,5/2,5, WN-1, WN-2, WN-21, WN-3</td>
<td>street luminaires</td>
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<tr>
<td>SAL-80M dZ anodised</td>
<td>42706/C...</td>
<td>8,00</td>
<td>9,50</td>
<td>48,2</td>
<td>0,11</td>
<td>WR-1/1, WR-1/2, WR-2/1, WR-2/2, WR-3/1, WR-3/2, WR-4/1, WR-4/2, WR-5A/1, WR-5A/2, WR-6A/1, WR-13/1, WR-13/2, WR-13/3, WR-14/1, WR-15/1, WR-15/2, WR-15/3, WR-17/1, WR-17/2, WR-18, WR-18A, WR-41, WRP1/1,0/0,7/5, WRP1/1,0/1,2/5, WRP1/1,5/1,5/2,5, WRP2/1,0/0,7/5, WRP2/1,0/1,2/5, WRP2/1,5/0,7/5, WRP2/1,5/1,5/2,5, WN-1, WN-2, WN-21, WN-3, WN-4, WN-42</td>
<td>street luminaires</td>
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<tr>
<td>SAL-85M dZ anodised</td>
<td>42707/C...</td>
<td>8,50</td>
<td>10,00</td>
<td>51,3</td>
<td>0,12</td>
<td>WR-8/1, WR-9/1, WR-9/2, WR-9/3, WR-18B, (only to maximum height 8 m), WR-8/1, WR-9/1, WR-9/2, WR-9/3, WR-18B, (only to maximum height 8 m), WR-8/1, WR-9/1, WR-9/2, WR-9/3, WR-18B, (only to maximum height 8 m)</td>
<td>street luminaires</td>
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