

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

### Vertical hollow straight signposts

Scope: **Supports supplied for fixed vertical signs (ZA.2)**

The product fulfils the essential characteristic:

**See Annex 1**

Intended use: **Stock items (described by performance)**

Placed on the market under the name or trade mark of:

**Seri Q Sign A/S  
Stærmosegårdsvej 30  
5230 Odense M**

and produced in the manufacturing plant:

**CPA30002**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 12899-1:2007 : Fixed, vertical road traffic signs-Part 1: Fixed signs**

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2020-08-06**.

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2016-06-03)

This certificate was first issued 2015-09-01.



Allan Laursen  
Responsible for evaluation



Merete Poulsen  
Responsible for certification decision

The certificate shall be reproduced in extenso  
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**DBI Certification A/S**

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**DANAK**  
Prod. Reg. Nr. 7023

Version 2019-10-02  
Page **1** of **4**

## EXTENT

| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |                       |                                                    |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
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| <b>Dimensions:</b><br>OD 33,7 x 3,2 mm<br>OD 48,3 x 2,9 mm<br>OD 48,3 x 3,0 mm<br>OD 48,3 x 3,2 mm<br>OD 48,3 x 4,0 mm<br>OD 60,3 x 3,6 mm<br>OD 60,3 x 4,5 mm<br>OD 76,1 x 3,6 mm<br>OD 76,1 x 4,5 mm<br>OD 88,9 x 3,2 mm<br>OD 88,9 x 4,0 mm<br>OD 88,9 x 4,8 mm<br>OD 114,3 x 4,5 mm<br>OD 114,3 x 5,0 mm<br>OD 114,3 x 5,4 mm<br><br><b>Material:</b><br>Steel S235JRH, S235JOH or S235J2H<br>Hot dip galvanized coating, according to EN 1461. | <b>Resistance to horizontal loads, bending, torsion:</b> <table><tr><th></th><th colspan="2">Bending</th><th colspan="2">Torsion</th></tr><tr><th>Steel pipe</th><th>Max moment</th><th>Stiffness</th><th>Max torque</th><th>Stiffness</th></tr><tr><th>mm</th><th>kNm</th><th>kNm<sup>2</sup></th><th>kNm</th><th>kNm<sup>2</sup></th></tr><tr><td>33,7 x 3,2</td><td>0,50</td><td>7,57</td><td>0,58</td><td>5,84</td></tr><tr><td>48,3 x 2,9</td><td>1,04</td><td>22,5</td><td>1,20</td><td>17,3</td></tr><tr><td>48,3 x 3,0</td><td>1,07</td><td>23,1</td><td>1,24</td><td>17,8</td></tr><tr><td>48,3 x 3,2</td><td>1,13</td><td>24,3</td><td>1,30</td><td>18,8</td></tr><tr><td>48,3 x 4,0</td><td>1,34</td><td>28,9</td><td>1,55</td><td>22,3</td></tr><tr><td>60,3 x 3,6</td><td>2,02</td><td>54,3</td><td>2,33</td><td>41,9</td></tr><tr><td>60,3 x 4,5</td><td>2,41</td><td>64,9</td><td>2,78</td><td>50,1</td></tr><tr><td>76,1 x 3,6</td><td>3,34</td><td>113</td><td>3,85</td><td>87,5</td></tr><tr><td>76,1 x 4,5</td><td>4,02</td><td>137</td><td>4,64</td><td>105</td></tr><tr><td>88,9 x 3,2<sup>1</sup></td><td>4,19</td><td>166</td><td>4,84</td><td>128</td></tr><tr><td>88,9 x 4,0</td><td>5,09</td><td>202</td><td>5,88</td><td>156</td></tr><tr><td>88,9 x 4,8</td><td>5,95</td><td>236</td><td>6,87</td><td>182</td></tr><tr><td>114,3 x 4,5</td><td>9,64</td><td>492</td><td>11,1</td><td>380</td></tr><tr><td>114,3 x 5,0</td><td>10,6</td><td>540</td><td>12,2</td><td>416</td></tr><tr><td>114,3 x 5,4</td><td>11,3</td><td>577</td><td>13,0</td><td>445</td></tr></table> |                                                 | Bending               |                                                    | Torsion                                                                 |               | Steel pipe | Max moment | Stiffness | Max torque | Stiffness | mm         | kNm | kNm <sup>2</sup> | kNm | kNm <sup>2</sup> | 33,7 x 3,2 | 0,50 | 7,57 | 0,58 | 5,84 | 48,3 x 2,9 | 1,04 | 22,5 | 1,20 | 17,3 | 48,3 x 3,0 | 1,07 | 23,1 | 1,24 | 17,8 | 48,3 x 3,2 | 1,13 | 24,3 | 1,30 | 18,8 | 48,3 x 4,0 | 1,34 | 28,9 | 1,55 | 22,3 | 60,3 x 3,6 | 2,02 | 54,3 | 2,33 | 41,9 | 60,3 x 4,5 | 2,41 | 64,9 | 2,78 | 50,1 | 76,1 x 3,6 | 3,34 | 113 | 3,85 | 87,5 | 76,1 x 4,5              | 4,02 | 137 | 4,64 | 105 | 88,9 x 3,2 <sup>1</sup> | 4,19 | 166 | 4,84 | 128 | 88,9 x 4,0 | 5,09 | 202 | 5,88 | 156 | 88,9 x 4,8  | 5,95 | 236 | 6,87 | 182 | 114,3 x 4,5 | 9,64 | 492 | 11,1 | 380 | 114,3 x 5,0 | 10,6 | 540 | 12,2 | 416 | 114,3 x 5,4 | 11,3 | 577 | 13,0 | 445 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bending                                         |                       | Torsion                                            |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| Steel pipe                                                                                                                                                                                                                                                                                                                                                                                                                                          | Max moment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Stiffness                                       | Max torque            | Stiffness                                          |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| mm                                                                                                                                                                                                                                                                                                                                                                                                                                                  | kNm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | kNm <sup>2</sup>                                | kNm                   | kNm <sup>2</sup>                                   |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 33,7 x 3,2                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7,57                                            | 0,58                  | 5,84                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 2,9                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22,5                                            | 1,20                  | 17,3                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 3,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23,1                                            | 1,24                  | 17,8                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 3,2                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24,3                                            | 1,30                  | 18,8                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 4,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 28,9                                            | 1,55                  | 22,3                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 60,3 x 3,6                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54,3                                            | 2,33                  | 41,9                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 60,3 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64,9                                            | 2,78                  | 50,1                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 76,1 x 3,6                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3,34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 113                                             | 3,85                  | 87,5                                               |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 76,1 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4,02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 137                                             | 4,64                  | 105                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 3,2 <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                             | 4,19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 166                                             | 4,84                  | 128                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 4,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5,09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 202                                             | 5,88                  | 156                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 4,8                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5,95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 236                                             | 6,87                  | 182                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9,64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 492                                             | 11,1                  | 380                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 5,0                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 540                                             | 12,2                  | 416                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 5,4                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 577                                             | 13,0                  | 445                                                |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Performance under vehicle impact according to EN 12767:2019:</b> <table><tr><th>Steel pipe</th><th>Speed class</th><th>Energy absorption category</th><th>Occupant safety level</th><th>Collapse mode</th></tr><tr><th>mm</th><th></th><th></th><th></th><th></th></tr><tr><td>33,7 x 3,2</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>48,3 x 2,9</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>48,3 x 3,0</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>48,3 x 3,2</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>48,3 x 4,0</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>60,3 x 3,6</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>60,3 x 4,5</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>76,1 x 3,6</td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>76,1 x 4,5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>88,9 x 3,2<sup>2</sup></td><td>100</td><td>NE</td><td>C</td><td>SE</td></tr><tr><td>88,9 x 4,0</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>88,9 x 4,8</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>114,3 x 4,5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>114,3 x 5,0</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>114,3 x 5,4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>                                                                                                                                                                                                    | Steel pipe                                      | Speed class           | Energy absorption category                         | Occupant safety level                                                   | Collapse mode | mm         |            |           |            |           | 33,7 x 3,2 | 100 | NE               | C   | SE               | 48,3 x 2,9 | 100  | NE   | C    | SE   | 48,3 x 3,0 | 100  | NE   | C    | SE   | 48,3 x 3,2 | 100  | NE   | C    | SE   | 48,3 x 4,0 | 100  | NE   | C    | SE   | 60,3 x 3,6 | 100  | NE   | C    | SE   | 60,3 x 4,5 | 100  | NE   | C    | SE   | 76,1 x 3,6 | 100  | NE   | C    | SE   | 76,1 x 4,5 | -    | -   | -    | -    | 88,9 x 3,2 <sup>2</sup> | 100  | NE  | C    | SE  | 88,9 x 4,0              | -    | -   | -    | -   | 88,9 x 4,8 | -    | -   | -    | -   | 114,3 x 4,5 | -    | -   | -    | -   | 114,3 x 5,0 | -    | -   | -    | -   | 114,3 x 5,4 | -    | -   | -    | -   |             |      |     |      |     |
| Steel pipe                                                                                                                                                                                                                                                                                                                                                                                                                                          | Speed class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Energy absorption category                      | Occupant safety level | Collapse mode                                      |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| mm                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |                       |                                                    |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 33,7 x 3,2                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 2,9                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 3,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 3,2                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 48,3 x 4,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 60,3 x 3,6                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 60,3 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 76,1 x 3,6                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 76,1 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 3,2 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                             | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NE                                              | C                     | SE                                                 |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 4,0                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 88,9 x 4,8                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 4,5                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 5,0                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| 114,3 x 5,4                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                               | -                     | -                                                  |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Durability:</b> <table><tr><td><b>Corrosion resistance</b> (supports)<br/>Metal</td><td>SP1</td></tr><tr><td><b>Resistance to penetration of dust and water</b></td><td>Supports can not be provided with compartments for electrical equipment</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Corrosion resistance</b> (supports)<br>Metal | SP1                   | <b>Resistance to penetration of dust and water</b> | Supports can not be provided with compartments for electrical equipment |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| <b>Corrosion resistance</b> (supports)<br>Metal                                                                                                                                                                                                                                                                                                                                                                                                     | SP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |                       |                                                    |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
| <b>Resistance to penetration of dust and water</b>                                                                                                                                                                                                                                                                                                                                                                                                  | Supports can not be provided with compartments for electrical equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |                       |                                                    |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <sup>1</sup> Deemed to comply as class 100,NE,C according to EN 12767:2019, Annex K<br><sup>2</sup> Deemed to comply as class 100,NE,C according to EN 12767:2019, Annex K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                       |                                                    |                                                                         |               |            |            |           |            |           |            |     |                  |     |                  |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |      |      |      |            |      |     |      |      |                         |      |     |      |     |                         |      |     |      |     |            |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |             |      |     |      |     |

**EXTENT**

| Type                                                                                                                                                                                                                                                                              | Description                                       |            |                                                                         |            |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------|-------------------------------------------------------------------------|------------|-----------|
| <div>Dimensions IPE-profiles:</div> <div>IPE 120</div> <div>IPE 140</div> <div>IPE 160</div> <div>IPE 180</div> <div>IPE 200</div> <div>IPE 220</div> <div>IPE 240</div> <div>Material:</div> <div>Steel S355J2</div> <div>Hot dip galvanized coating, according to EN 1461</div> | Resistance to horizontal loads, bending, torsion: |            |                                                                         |            |           |
|                                                                                                                                                                                                                                                                                   |                                                   | Bending    |                                                                         | Torsion    |           |
|                                                                                                                                                                                                                                                                                   | IPE                                               | Max moment | Stiffness                                                               | Max torque | Stiffness |
|                                                                                                                                                                                                                                                                                   | No.                                               | kNm        | kNm²                                                                    | kNm        | kNm²      |
|                                                                                                                                                                                                                                                                                   | 120                                               | 18,8       | 668                                                                     | 0,57       | 1,41      |
|                                                                                                                                                                                                                                                                                   | 140                                               | 27,4       | 1136                                                                    | 0,73       | 1,98      |
|                                                                                                                                                                                                                                                                                   | 160                                               | 38,7       | 1825                                                                    | 1,00       | 2,93      |
|                                                                                                                                                                                                                                                                                   | 180                                               | 51,8       | 2772                                                                    | 1,23       | 3,89      |
|                                                                                                                                                                                                                                                                                   | 200                                               | 68,9       | 4074                                                                    | 1,69       | 5,69      |
|                                                                                                                                                                                                                                                                                   | 220                                               | 89,5       | 5817                                                                    | 2,03       | 7,37      |
|                                                                                                                                                                                                                                                                                   | 240                                               | 115,0      | 8169                                                                    | 2,70       | 10,45     |
|                                                                                                                                                                                                                                                                                   | Durability:                                       |            |                                                                         |            |           |
|                                                                                                                                                                                                                                                                                   | Corrosion resistance (supports)                   |            | SP1                                                                     |            |           |
|                                                                                                                                                                                                                                                                                   | Metal                                             |            |                                                                         |            |           |
|                                                                                                                                                                                                                                                                                   | Resistance to penetration of dust and water       |            | Supports can not be provided with compartments for electrical equipment |            |           |

| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Description                                       |            |                                                                         |            |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------|-------------------------------------------------------------------------|------------|------------------|
| <div>Dimensions RHS-profiles:</div> <div>RHS 60 x 40 x 3,0</div> <div>RHS 80 x 40 x 3,0</div> <div>RHS 100 x 50 x 3,0</div> <div>RHS 120 x 60 x 4,0</div> <div>RHS 150 x 100 x 5,0</div> <div>RHS 160 x 80 x 5,0</div> <div>RHS 180 x 100 x 6,0</div> <div>RHS 200 x 100 x 6,0</div> <div>RHS 250 x 150 x 6,3</div> <div>RHS 100 x 100 x 5,0</div> <div>RHS 120 x 120 x 5,0</div> <div>RHS 150 x 150 x 5,0</div> <div>RHS 180 x 180 x 5,0</div> <div>RHS 200 x 200 x 5,0</div> <div>RHS 200 x 200 x 8,0</div> <div>Material:</div> <div>Steel S355J2</div> <div>Hot dip galvanized coating, according to EN 1461</div> | Resistance to horizontal loads, bending, torsion: |            |                                                                         |            |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | Bending    |                                                                         | Torsion    |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RHS                                               | Max moment | Stiffness                                                               | Max torque | Stiffness        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.                                               | kNm        | kNm <sup>2</sup>                                                        | kNm        | kNm <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 60x40x3,0                                         | 3,1        | 56                                                                      | 2,3        | 24               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 80x40x3,0                                         | 4,8        | 114                                                                     | 3,1        | 35               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100x50x3,0                                        | 7,8        | 231                                                                     | 5,1        | 72               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 120x60x4,0                                        | 14,7       | 523                                                                     | 9,7        | 163              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 150x100x5                                         | 35,0       | 1552                                                                    | 26,0       | 654              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 160x80x5,0                                        | 33,0       | 1562                                                                    | 21,7       | 486              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 180x100x6,0                                       | 53,3       | 2835                                                                    | 36,7       | 988              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200x100x6,0                                       | 62,1       | 3675                                                                    | 41,0       | 1142             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 250x150x6,3                                       | 117,5      | 8694                                                                    | 84,6       | 3281             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100x100x5,0                                       | 19,8       | 586                                                                     | 16,8       | 356              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 120x120x5,0                                       | 29,5       | 1046                                                                    | 25,0       | 629              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 150x150x5,0                                       | 47,6       | 2100                                                                    | 40,4       | 1256             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 180x180x5,0                                       | 69,6       | 3717                                                                    | 59,5       | 1434             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200x200x5,0                                       | 87,0       | 5145                                                                    | 74,2       | 3046             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200x200x8,0                                       | 131,7      | 7791                                                                    | 111,7      | 4682             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Durability:                                       |            |                                                                         |            |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Corrosion resistance (supports)                   |            | SP1                                                                     |            |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Metal                                             |            |                                                                         |            |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Resistance to penetration of dust and water       |            | Supports can not be provided with compartments for electrical equipment |            |                  |

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## Annex 2

**TEST DOCUMENTATION**

EN 12767:2007, Annex F- Deemed to comply

## Annex 3

**TECHNICAL BASIS**

| File number | Title                                                                                                                                                                                                                           | Date          |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| None        | Seri Q Sign A/S, CE marking and labeling<br>Traffic signs - nomograms for calculation of hollow steel pipes for smaller sign sizes, Verification of the physical performance by calculation in accordance with EN 12899-1:2007. | February 2014 |
| None        | Seri Q Sign A/S, CE marking and labeling<br>Traffic signs - nomograms for calculation of hollow steel pipes for medium sign sizes, Verification of the physical performance by calculation in accordance with EN 12899-1:2007.  | July 2014     |
| None        | Resistance to horizontal loads                                                                                                                                                                                                  | 2016-04-25    |
| None        | Revision to Certificate No. 2531-CPR-CSC10003 of 2015-09-01                                                                                                                                                                     | 2016-04-25    |
| None        | Performance under vehicle impact                                                                                                                                                                                                | 2016-04-25    |
| None        | Regarding change request for Certificate No. 2531-CPR-CSC10003, Addendum to Annex 1                                                                                                                                             | 2020-01-23    |

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