

## 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:

### Sign plates for fixed vertical road traffic signs

Scope: Sign plates with sign face materials applied for fixed vertical road traffic signs (ZA.5)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Permanent traffic signs

Placed on the market under the name or trade mark of:  
**Saferoad Daluiso A/S**  
**Hvidkærvej 33**  
**5250 Odense SV**  
**Denmark**

and produced in the manufacturing plant:  
**CPA30003**

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

**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 factory production control conducted by the manufacturer is assessed to ensure the

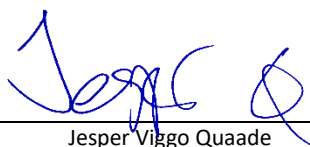
## CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2017-11-30 and will remain valid as long as neither the harmonised 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: **2023-09-12**

(This certificate supersedes the previous version of this certificate issued 2018-11-21)



Jesper Viggo Quaade  
Responsible for evaluation



Merete Poulsen  
Responsible for certification decision

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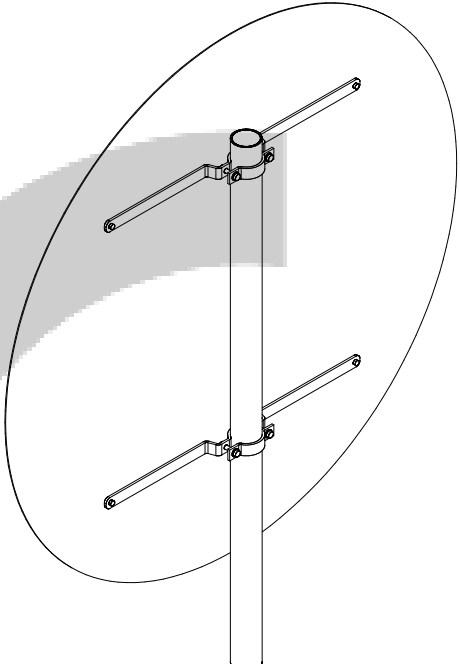
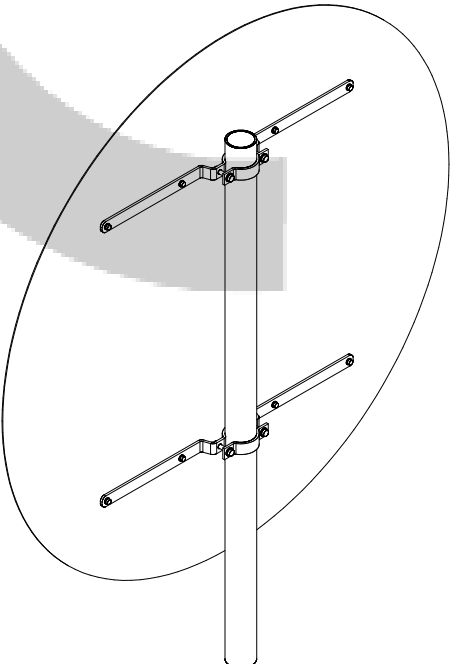
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Annex 1

| Description and classification:                                                                                                                                                                                                                |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Sign, sizes and mounting system</b><br>Brackets: Minimum steel quality: S235<br>Signboard: Minimum aluminium quality: R <sub>p0,2</sub> = 180 MPa<br>Pipe dimension Ø48,3, Ø60,3, Ø76,1 or 88,9 mm<br>Single sided or double sides mounting | Classification according to wind load classes                                       |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                | Placed in WL1                                                                       | Placed in WL2                                                                       | Placed in WL3                                                                       |
| <br>$d \leq 1200 \text{ mm}$ , $t = 2 \text{ mm}$ , brackets Type 1                                                                                          | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. |
| <br>$d \leq 1200 \text{ mm}$ , $t = 2 \text{ mm}$ , brackets Type 2                                                                                         | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. |

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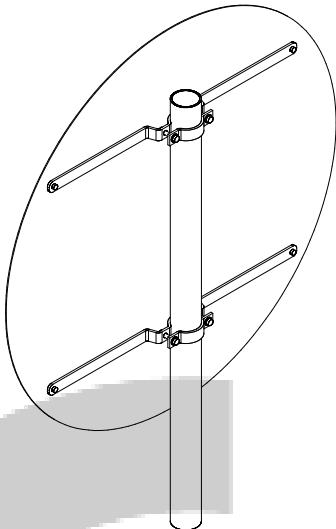
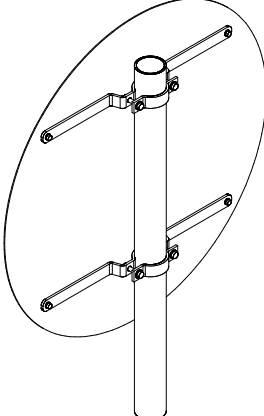
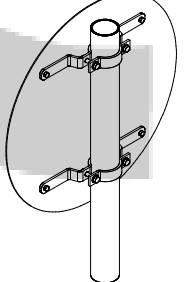
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|  <p><math>d \leq 900 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>   | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p> |
|  <p><math>d \leq 700 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>  | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> |
|  <p><math>d \leq 500 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> |

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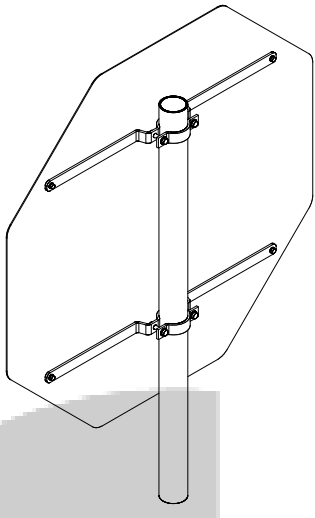
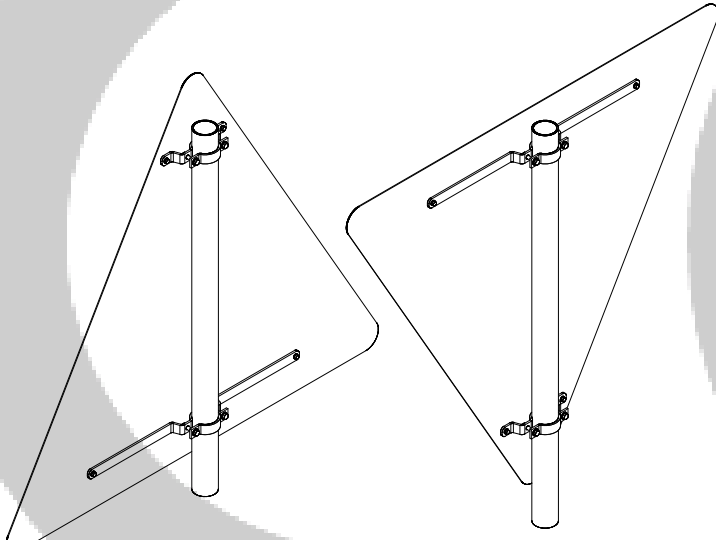
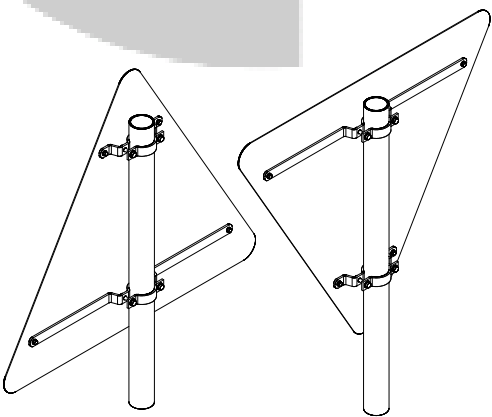
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|  <p><math>h \leq 900 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSLO, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSLO, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSLO, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>s \leq 1250 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSLO, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSLO, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSLO, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>s \leq 900 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSLO, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSLO, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSLO, PLO, TDB3, TDT0, P2, E1 and SP1. |

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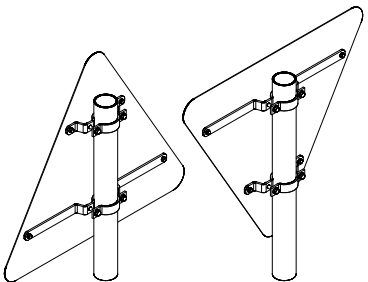
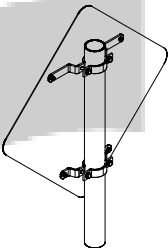
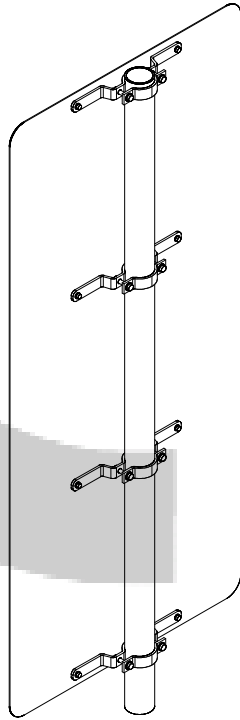
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|  <p><math>S \leq 700 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>                            | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> |
|  <p><math>a \leq 500 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>                            | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> |
|  <p><math>h \times b \leq 1450 \times \leq 650 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p> |

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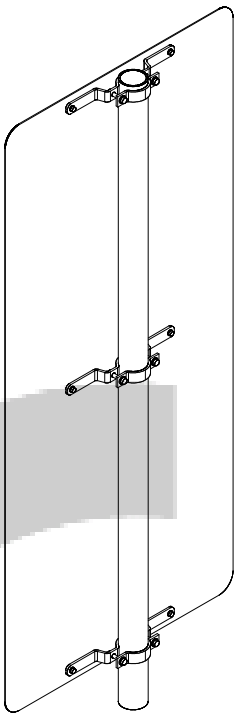
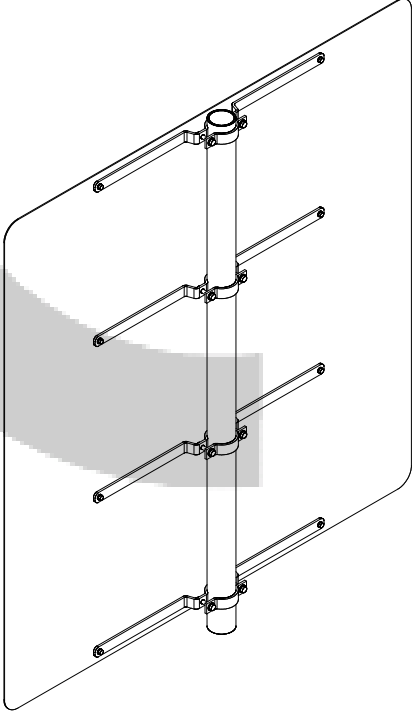
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|  <p><math>h \times b = \leq 1450 \times \leq 650 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p>    | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p> |
|  <p><math>h \times b = \leq 1250 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> |

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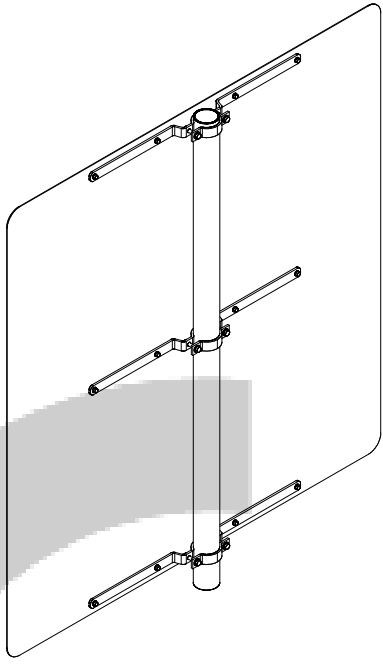
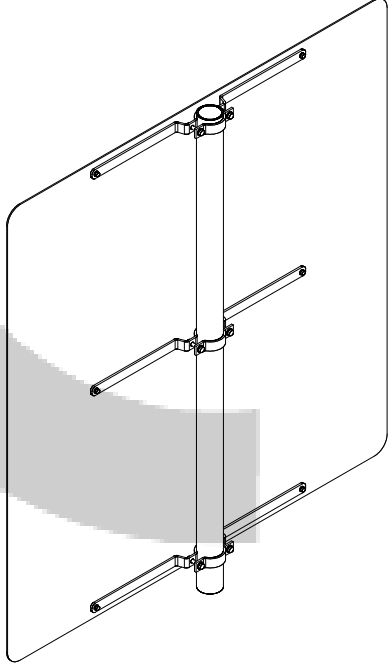
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|  <p><math>h \times b = \leq 1250 \times \leq 1200 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 2</p>  | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB6, TDT0, P2, E1 and SP1.</p> |
|  <p><math>h \times b = \leq 1250 \times \leq 1200 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL1, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p> | <p><b>Signboard and brackets:</b><br/>PAF1, WL3, DSL0, PLO, TDB6, TDT0, P2, E1 and SP1.</p> |

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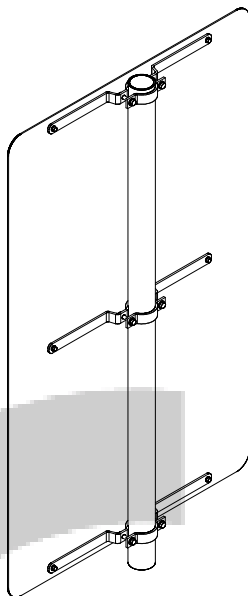
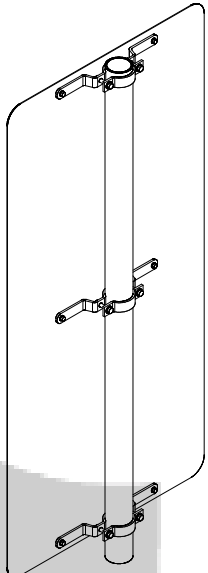
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|  <p><math>h \times b = \leq 1250 \times \leq 750 \text{ mm}, t = 2 \text{ mm}, \text{brackets type 1}</math></p>  | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 1250 \times \leq 600 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |

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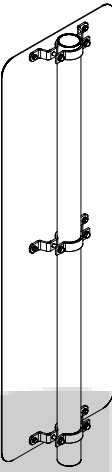
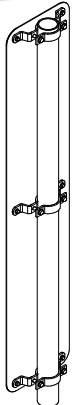
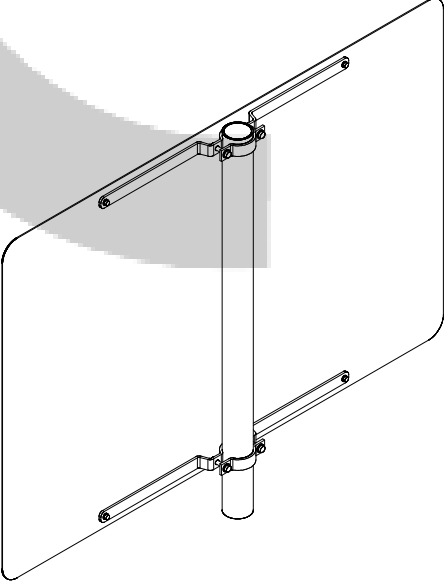
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|  <p><math>h \times b = \leq 1250 \times \leq 400 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 1250 \times \leq 250 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>  | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 800 \times \leq 1200 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |

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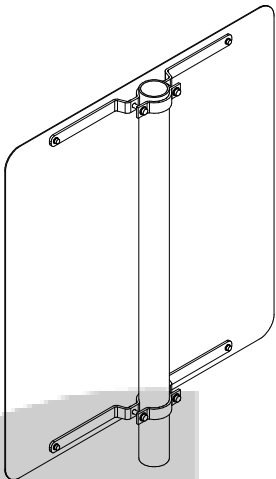
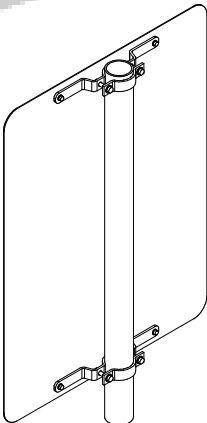
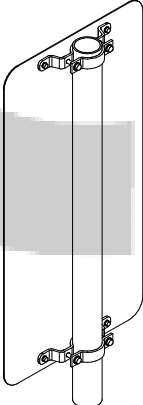
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  <p><math>h \times b = \leq 800 \times \leq 750 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 800 \times \leq 600 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p>  | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 800 \times \leq 400 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |

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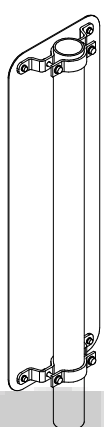
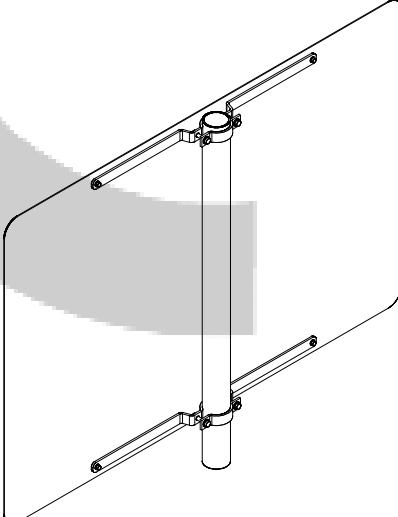
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|                                                                                                                                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  <p><math>h \times b = \leq 800 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p>    | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 700 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 650 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}</math></p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. |

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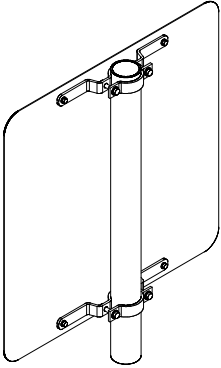
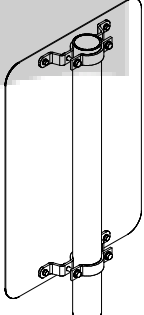
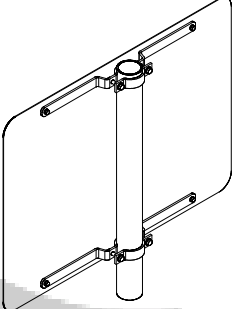
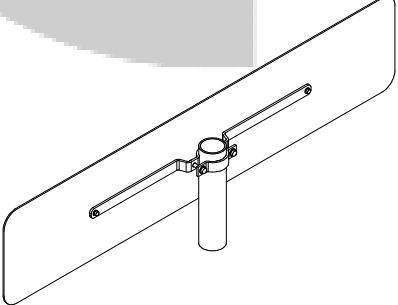
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|                                                                                                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  <p><math>h \times b = \leq 600 \times \leq 600 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 600 \times \leq 400 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 550 \times \leq 750 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, brackets Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 250 \times \leq 1200 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, bracket Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1. |

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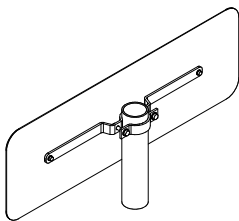
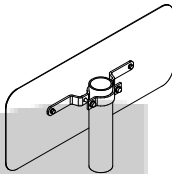
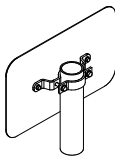
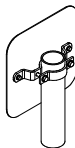
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|                                                                                                                                                                                                         |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  <p><math>h \times b = \leq 250 \times \leq 750 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, bracket Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 250 \times \leq 600 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, bracket Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 250 \times \leq 400 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, bracket Type 1</p>   | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. |
|  <p><math>h \times b = \leq 250 \times \leq 250 \text{ mm}</math>, <math>t = 2 \text{ mm}</math>, bracket Type 1</p> | <b>Signboard and brackets:</b><br>PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. | <b>Signboard and brackets:</b><br>PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1. |

The different types, shapes and sizes of minor traffic signs including mounting system are shown in Figure 1 and Figure 2.

The variation of the sizes for the individual types and shapes inclusive mounting system are shown in Figure 1 to Figure 6 and in Table 1.

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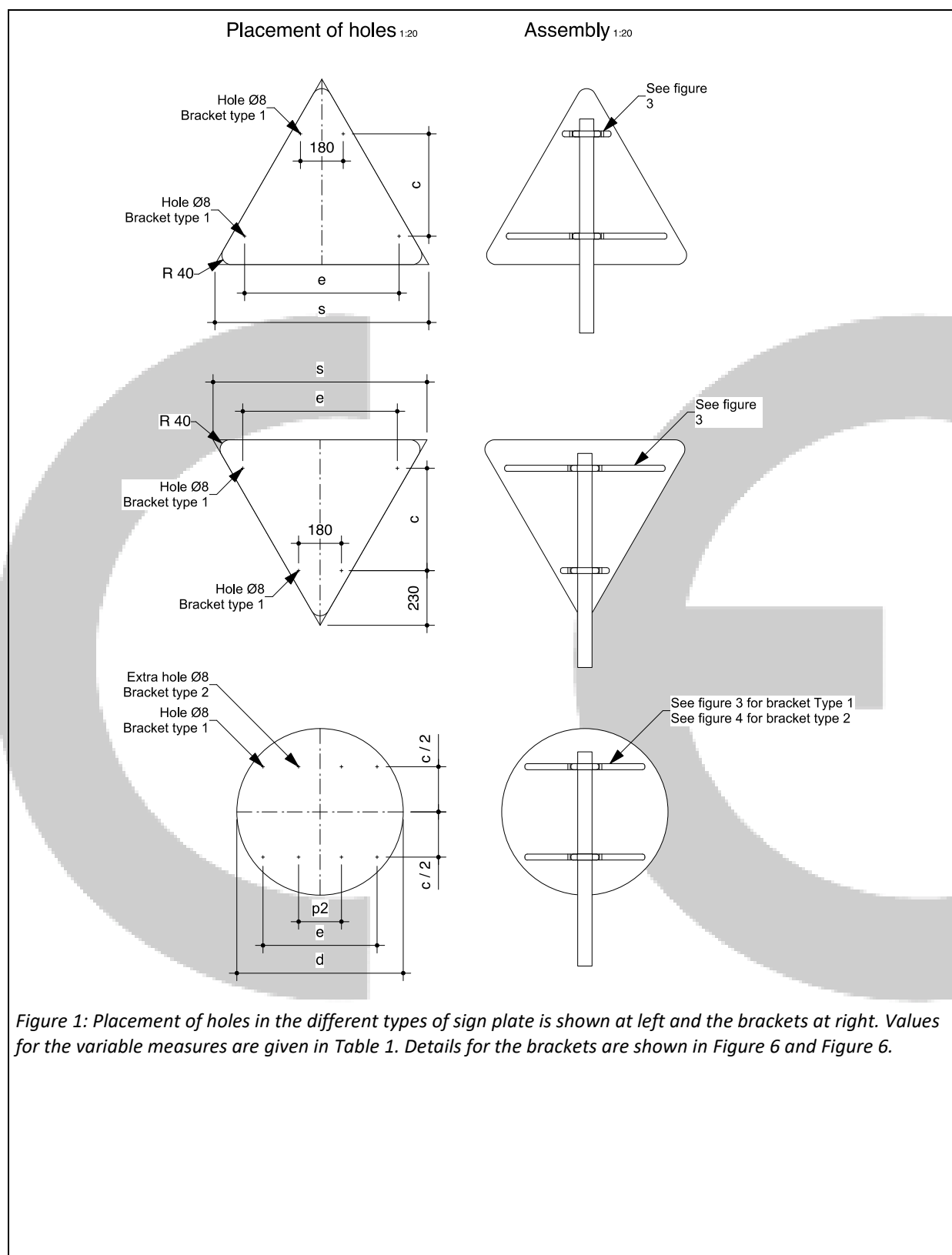
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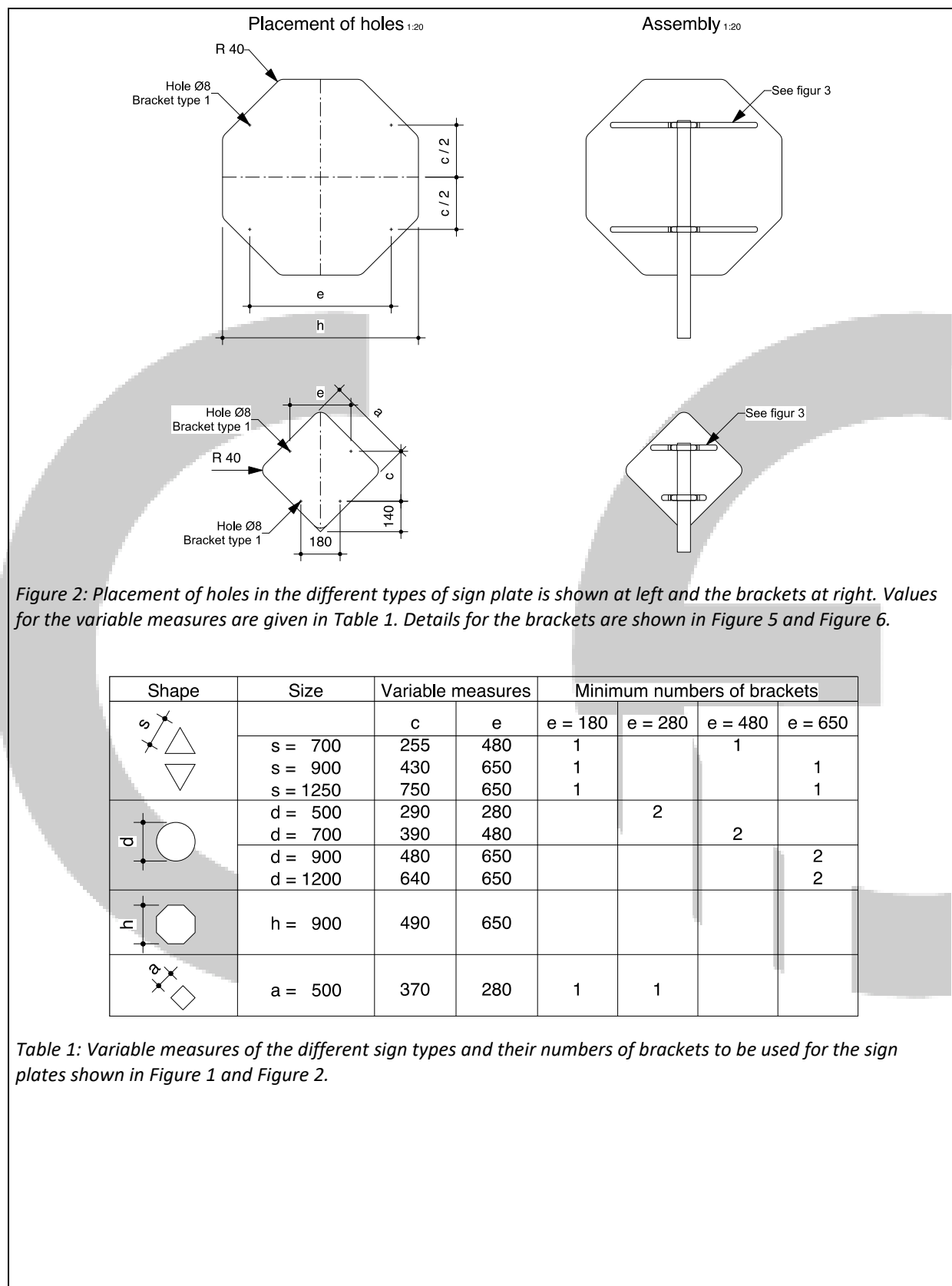
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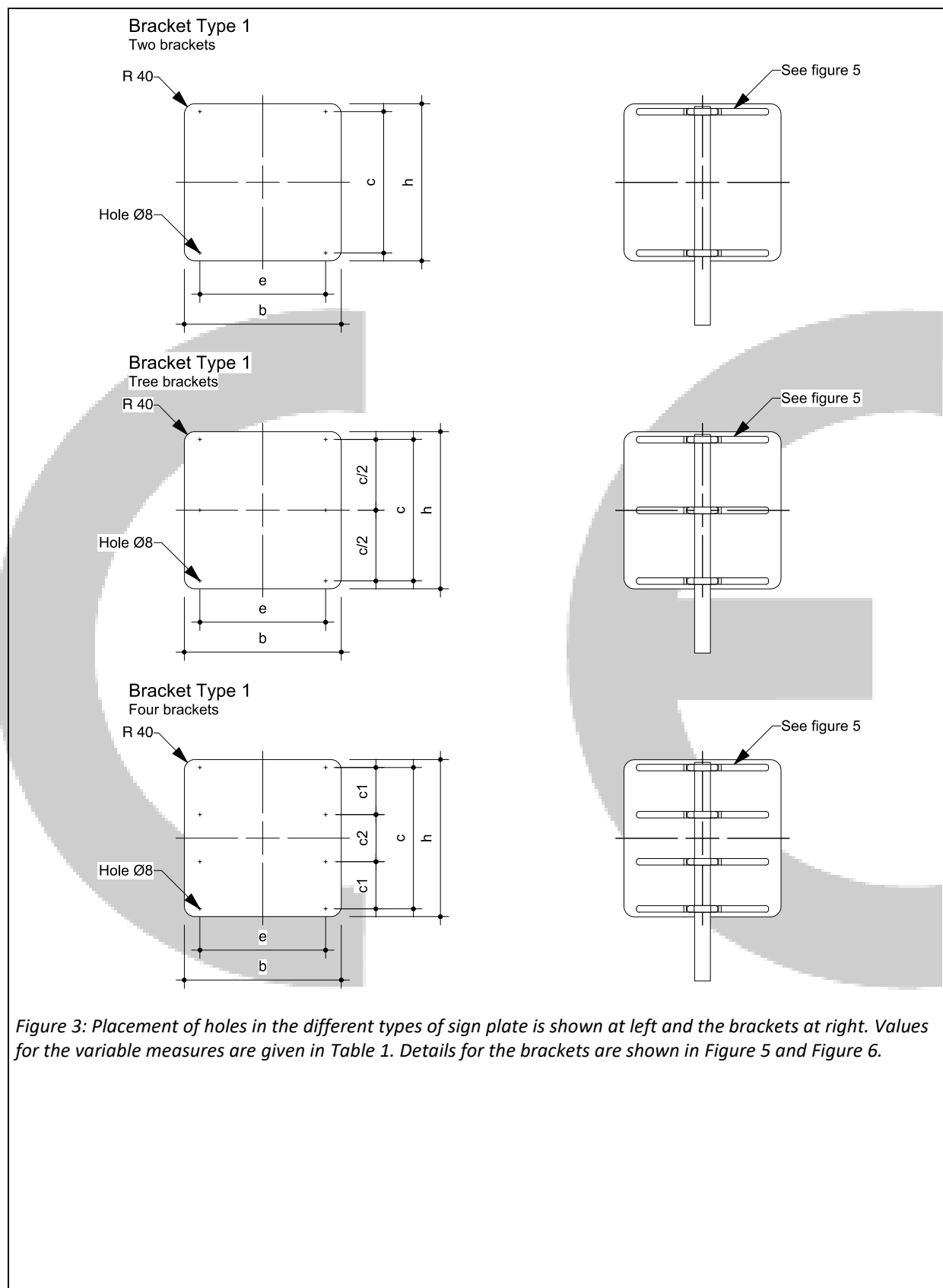
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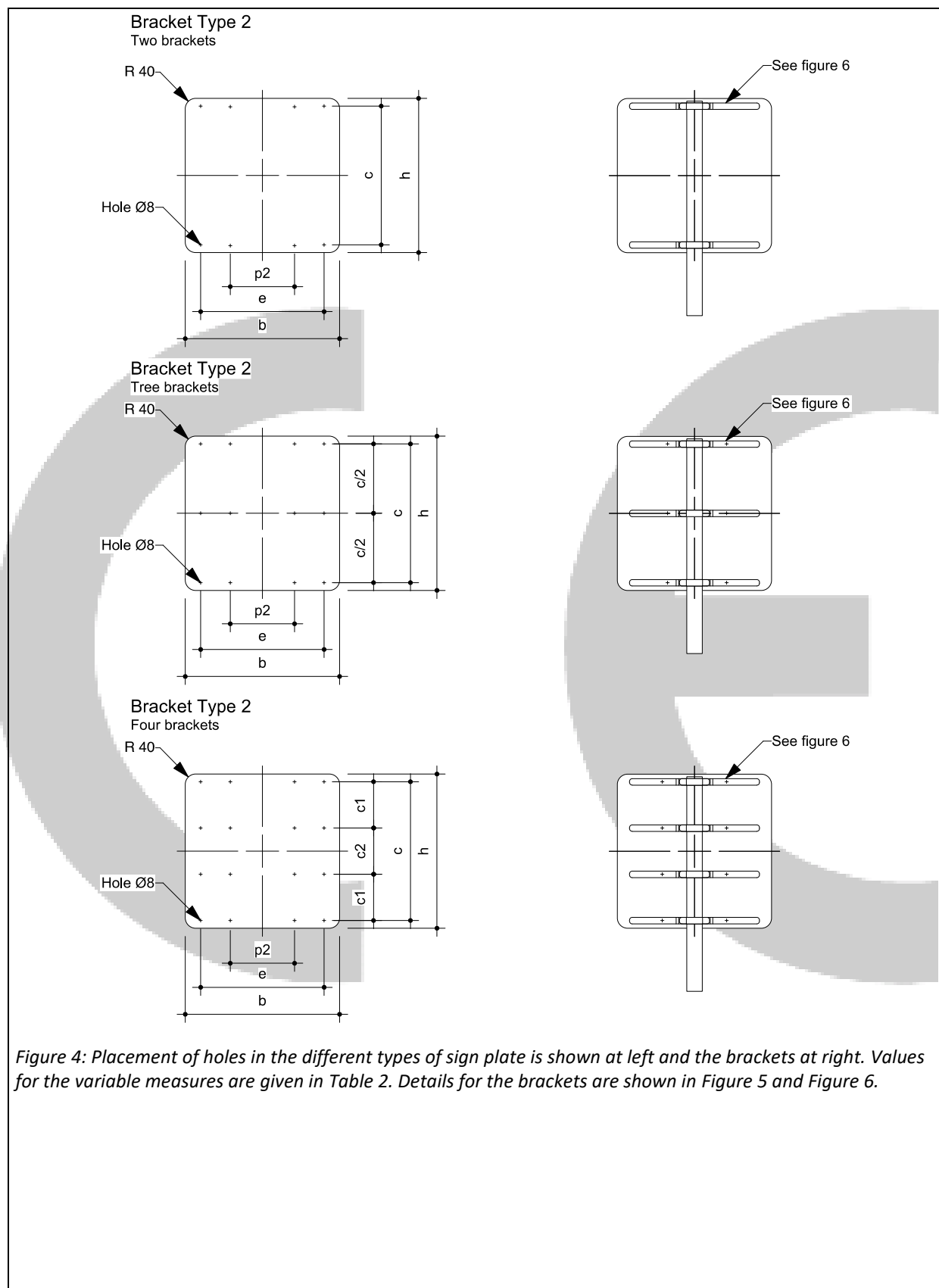


Figure 4: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 2. Details for the brackets are shown in Figure 5 and Figure 6.

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| h    | b    | c    | c1  | c2  | e   | Minimum numbers of brackets |
|------|------|------|-----|-----|-----|-----------------------------|
| 1450 | 650  | 1389 | 463 | 463 | 280 | 4                           |
| 1450 | 650  | 1390 | -   | -   | 280 | 3                           |
| 1250 | 1200 | 1190 | 395 | 400 | 650 | 4                           |
| 1250 | 1200 | 1190 | -   | -   | 650 | 3                           |
| 1250 | 750  | 1190 | -   | -   | 480 | 3                           |
| 1250 | 600  | 1190 | -   | -   | 280 | 3                           |
| 1250 | 400  | 1190 | -   | -   | 180 | 3                           |
| 1250 | 250  | 1190 | -   | -   | 180 | 3                           |
| 800  | 1200 | 740  | -   | -   | 650 | 2                           |
| 800  | 750  | 740  | -   | -   | 480 | 2                           |
| 800  | 600  | 740  | -   | -   | 280 | 2                           |
| 800  | 400  | 740  | -   | -   | 180 | 2                           |
| 800  | 250  | 740  | -   | -   | 180 | 2                           |
| 700  | 250  | 640  | -   | -   | 180 | 2                           |
| 650  | 1200 | 590  | -   | -   | 650 | 2                           |
| 600  | 600  | 540  | -   | -   | 280 | 2                           |
| 600  | 400  | 540  | -   | -   | 180 | 2                           |
| 550  | 750  | 490  | -   | -   | 480 | 2                           |
| 250  | 1200 | -    | -   | -   | 650 | 1                           |
| 250  | 750  | -    | -   | -   | 480 | 1                           |
| 250  | 600  | -    | -   | -   | 280 | 1                           |
| 250  | 400  | -    | -   | -   | 180 | 1                           |
| 250  | 250  | -    | -   | -   | 180 | 1                           |

Table 2: Variable measures of the different sign types and their numbers of brackets to be used for the sign plates shown in Figure 3 and Figure 4.

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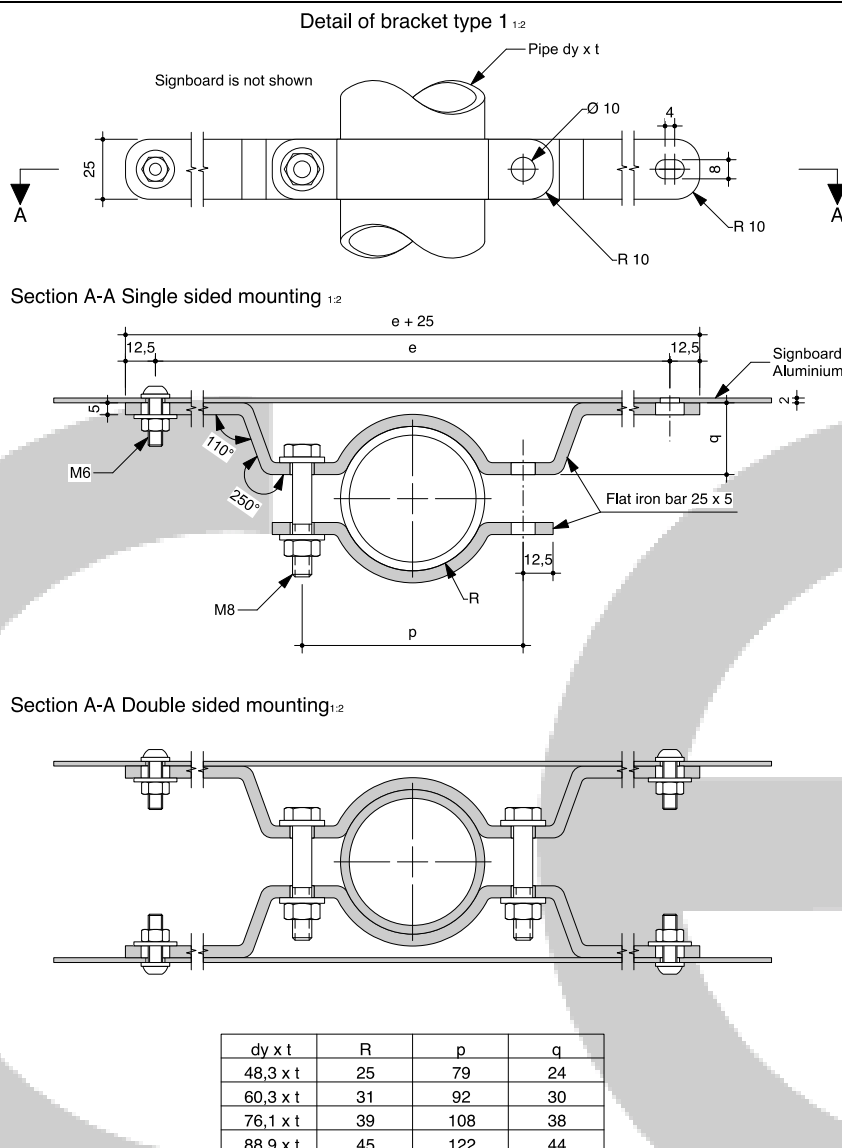


Figure 5: Brackets Type 1.

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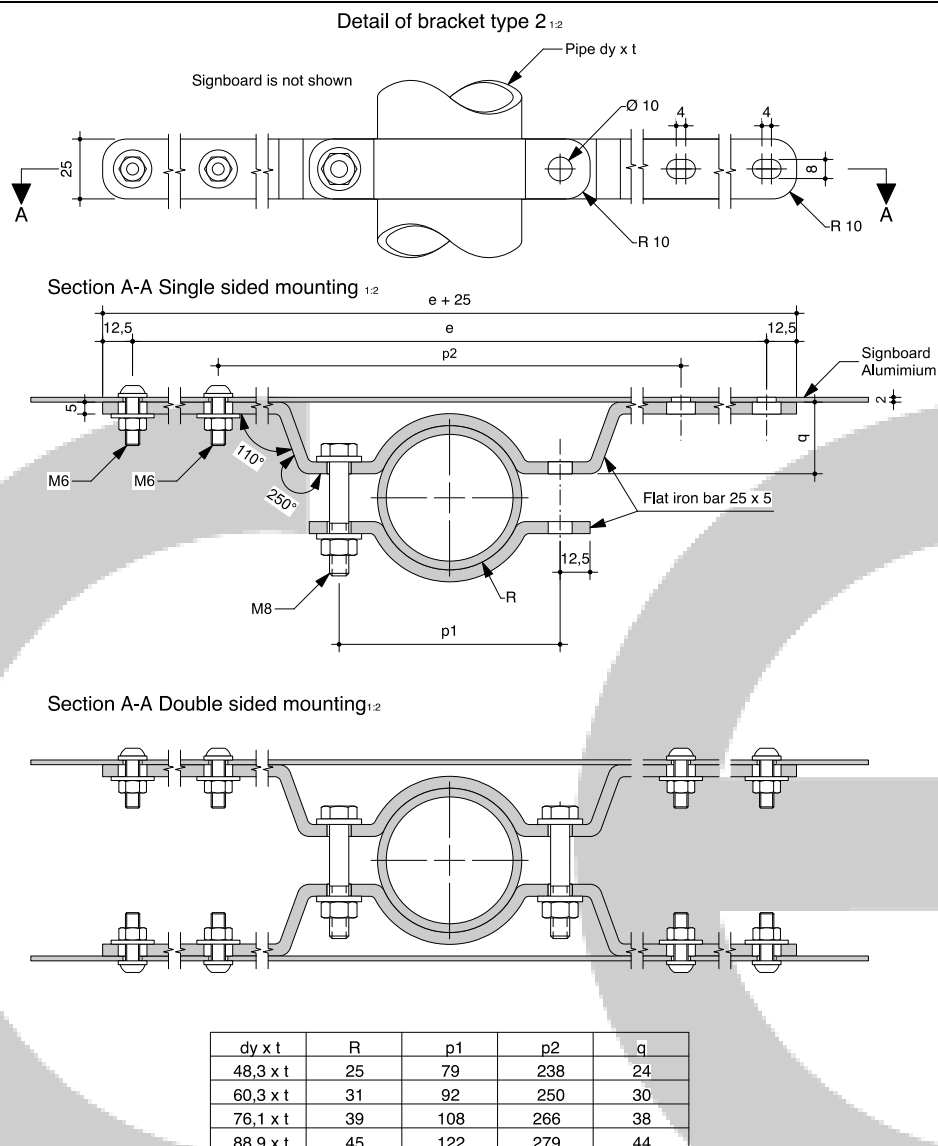


Figure 6: Brackets Type 2.

Fixings:

Pass.

Pressure force for tightening:

M6: 5 kN

M8: 2 kN

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| Visibility                                                              | Technical basis                | Value/description/<br>class/reference                                                                                  |
|-------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Retroreflective signs:<br>Daylight chromaticity & luminance factor      | See relevant ETA's in Annex 2. | Pass                                                                                                                   |
| Non retroreflective signs: Daylight chromaticity & luminance factor     |                                | NPD                                                                                                                    |
| Retroreflective signs:<br>Coefficient of retroreflection $R_A$          | See relevant ETA's in Annex 2. | Pass                                                                                                                   |
| <b>External illumination:</b>                                           |                                |                                                                                                                        |
| mean illuminance,                                                       |                                | NPD                                                                                                                    |
| uniformity of illuminance                                               |                                | NPD                                                                                                                    |
| <b>Durability</b>                                                       |                                | <b>Value/description /class</b>                                                                                        |
| Impact resistance<br>Sign face material                                 | See relevant ETA's in Annex 2. | Pass                                                                                                                   |
| Resistance to weatering – sign face material:<br>Retroreflective signs  | See relevant ETA's in Annex 2. | Pass                                                                                                                   |
| Resistance to weatering – sign face material: Non retroreflective signs |                                | NPD                                                                                                                    |
| <b>Corrosion resistance</b>                                             |                                |                                                                                                                        |
| Brackets                                                                |                                | Minimum S235<br>Hot dip galvanized to a minimum of 60µm.<br>SP1                                                        |
| Screws, nuts and washers                                                |                                | M6: $f_y \geq 370$ MPa, SP1 or SP2 according to material.<br>M8: $f_y \geq 400$ MPa, SP1 or SP2 According to material. |
| Aluminium plate                                                         |                                | SP1<br>Laquered Al-plate on exposed side if any. 3M primer on front side.                                              |
| Resistance to penetration of dust and water                             |                                | NPD<br><br>The product can not be provided with compartments for electrical equipment                                  |

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Annex 2

**Technical basis**

| Title                                                                                                                                                                                                             | Date                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Saferoad Daluiso A/S<br>Calculation of minor traffic signs (ITC)<br>Shapes and sizes for signs without protection edge mounted on brackets made of<br>presharped rectangular steel bars, 1 <sup>th</sup> Edition. | September 2017           |
| 3M Advanced Engineer Grade Prismatic 7930<br>ETA 16/0006 Version 01<br>ETA 17/0465 Version 01                                                                                                                     | 2016-03-03<br>2017-07-26 |
| 3M High Intensity Prismatic 3930<br>ETA 18/0290 Version 01<br>ETA 17/0491 Version 01                                                                                                                              | 2018-06-21<br>2017-07-26 |
| 3M Engineering Grade Prismatic 3430:<br>ETA 10/0118 Version 02<br>ETA 12/0550 Version 01                                                                                                                          | 2016-02-10<br>2018-06-06 |
| 3M Diamond Grade DG:<br>ETA 18/0405 Version 01<br>ETA 17/0490 Version 02                                                                                                                                          | 2018-06-21<br>2019-06-05 |
| 3M Flexible Engineer Grade Prismatic 7600<br>ETA 19/0839 Version 01                                                                                                                                               | 2020-04-17               |

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