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Certificate holder

Hydro Extrusion Netherlands B.V.
Alcoalaan, 1
NL-5151 RW DRUNEN
NETHERLANDS

Manufacturing plant

Hydro Extrusion Netherlands B.V.
Alcoalaan, 1
NL-5151 RW DRUNEN
NETHERLANDS

Certificate of constancy of performance no. 0965-CPR-12899/2915/915

In compliance with Regulation (EU) No. 305/2011 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

Fixed, vertical road traffic signs - Supports for fixed vertical road traffic signs

placed on the market under the name or trade mark of the certificate holder and manufactured in the manufacturing plant mentioned on this certificate.

This certificate confirms that all provisions concerning the assessment and verification of constancy of performance (AVCP) described in Annex ZA of the standard

EN 12899-1:2007

under system 1 for the performance set out in this certificate are applied and that the factory production control (FPC) conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

The first version of this certificate was issued by PROCERTUS or her legal predecessor on 9.7.2009. This certificate remains valid as long as neither the harmonised standard, the construction product, the methods for Assessment and Verification of Constancy of Performance (AVCP) nor the manufacturing conditions in the plant, are modified significantly, unless the certificate is suspended or withdrawn by PROCERTUS.

The validity of this certificate can be verified on <https://extranet-steel.procertus.be> or by scanning the QR code on this certificate.

Ir. C. Ladang
General Manager



Annex to the certificate of consistency of performance nr. 0965-CPR-12899/2915/915 delivered on 19.12.2024.

Certificate holder

Hydro Extrusion Netherlands B.V.
Alcoalaan, 1
NL-5151 RW DRUNEN
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This certificate has been drawn up for products whose performance has been assessed and whose consistency of performance has been confirmed, and which are described in this annex by means of identification data and when applicable an indication of the levels and classes in which their performance may be found.

The performance of the individual product is declared by the manufacturer by means of a declaration of performance which he draws up and makes available under his own responsibility.

Product description

| Products | Qualities and categories | Dimensions |
|---|--------------------------|------------|
| Harmonised standard under reference: hEN 12899-1:2007 | | |
| <p data-bbox="347 421 1203 456">A. Supports for use with fixed vertical road traffic signs</p> <p data-bbox="260 461 1289 512">including among others signal heads according to EN 12368:2006 and variable message traffic signs according to EN 129661:2009</p> <p data-bbox="389 515 1209 546">Material – Extruded aluminium stepped or conical circular tubes</p> <p data-bbox="475 546 1123 577">Grade – $f_y = 160 \text{ N/mm}^2$ (characteristic elastic limit)</p> <p data-bbox="344 577 1185 607">Dimensions expressed in nominal diameter and nominal wall thickness</p> <p data-bbox="475 607 1054 638">from 76 mm by 2.5 mm to 250 mm by 4.0 mm</p> <p data-bbox="260 638 1326 669">with Structural Performance declared by the Producer according to hEN12899-1:2007, §5</p> <p data-bbox="456 703 1139 734">Durability: Resistance to corrosion – Aluminium; SP1</p> <p data-bbox="277 734 1321 797">With or without Performance under vehicle impact (passive safety) for single post supports:</p> <ol data-bbox="146 860 1321 954" style="list-style-type: none"> 1. Products with nominal diameter / nominal wall thickness 250 mm / 4.0 mm, with nominal height of 15 m and all smaller members, but over 2 m, supplied with internal shear mechanism and founded using a backfill type X with a TOAD® (***) or a backfill type R (Rigid). <p data-bbox="146 954 799 985">Passive safety according to EN 12767:2019 (*):</p> <ul data-bbox="292 985 1294 1059" style="list-style-type: none"> • 50-NE-B-X-SE-MD-0 / 70-NE-B-X-SE-MD-0 / 100-NE-B-X-SE-MD-0 (***) • 50-NE-B-R-SE-MD-0 / 70-NE-B-R-SE-MD-0 / 100-NE-B-R-SE-MD-0 (***) <ol data-bbox="146 1113 1321 1207" style="list-style-type: none"> 2. Products with nominal diameter / nominal wall thickness 165 mm / 3.3 mm, with nominal height of 10 m and all smaller members, but over 2 m using Standard Soil or Rigid (backfill type S or R). <p data-bbox="146 1207 799 1238">Passive safety according to EN 12767:2019 (*):</p> <ul data-bbox="292 1238 995 1312" style="list-style-type: none"> • 70-NE-C-S-SE-MD-0 / 100-NE-C-S-SE-MD-0 (***) • 70-NE-C-R-SE-MD-0 / 100-NE-C-R-SE-MD-0 (***) <ol data-bbox="146 1366 1289 1429" style="list-style-type: none"> 3. Products with Trade Name: MSI Neo Classic, Columns with nominal height of 2 m to 12 m, diameter 170 mm to 200 mm, nominal wall thickness: profiled, founded: rigid, backfill type R. <p data-bbox="146 1429 799 1460">Passive safety according to EN 12767:2019 (*):</p> <ul data-bbox="292 1460 695 1574" style="list-style-type: none"> • 50-NE-C-R-SE-MD-0 (***) • 70-NE-C-R-SE-MD-0 (***) • 100-NE-C-R-SE-MD-0 (***) <ol data-bbox="146 1615 1321 1677" style="list-style-type: none"> 4. Products with nominal diameter / nominal wall thickness 226 mm / 3.3 mm, with nominal height of 8 m and all smaller members, but over 2 m using Standard Soil (backfill type S). <p data-bbox="146 1677 799 1709">Passive safety according to EN 12767:2019 (*):</p> <ul data-bbox="292 1709 695 1740" style="list-style-type: none"> • 100-NE-C-S-SE-MD-0 (***) <p data-bbox="146 1783 1326 1877">(*) of Table A.5, EXAMPLE 2 “A sign fixed on one side of the support structure should not be considered as a lack of symmetry (only the support structure should be considered in the evaluation) and could be classified as Bi- or Multidirectional without any other test</p> <p data-bbox="146 1877 1326 1939">(**) as described in the specific report of the assessment of the performance prepared and issued by PROCERTUS for HYDRO EXTRUSION DRUNEN BV</p> <p data-bbox="146 1939 1326 2002">(***) These NE-classes also include, as BD, multilegged supports with clear distances greater than 1600 mm (according to EN 12767:2019, Annex G.2.5 and Annex K note B; $1\,600 \text{ mm} = 1\,500/\cos 20^\circ$)</p> | | |

| Products | Qualities and categories | Dimensions |
|---|--------------------------|------------|
| Harmonised standard under reference: hEN 12899-1:2007 | | |
| <p style="text-align: center;">B. Supports for use with fixed vertical road traffic signs including among others signal heads according to EN 12368:2006 and variable message traffic signs according to EN 129661:2009</p> <p style="text-align: center;">Material – Extruded aluminium stepped or conical circular tubes Grade – $f_y = 160 \text{ N/mm}^2$ (characteristic elastic limit) Dimensions expressed in nominal diameter and nominal wall thickness of 145 mm by 3.0 mm with Structural Performance declared by the Producer according to hEN12899-1:2007, §5</p> <p style="text-align: center;">Durability: Resistance to corrosion – Aluminium; SP1 With or without performance under vehicle impact (passive safety) for shored up multi-legged supports:</p> <p>5. Products made of multi-legged and shored up supports with nominal diameter / nominal wall thickness 145 mm / 3.0 mm and an offset of 2250 mm at ground level, supplied with internal shear-mechanisms in each leg, used for a maximum sign plate-height of totally 7.5 m and all smaller heights, founded using a backfill type X with a TOAD® (***) or a backfill type R (Rigid).</p> <p>Passive safety according to EN 12767:2019:</p> <ul style="list-style-type: none"> • 100-NE-C-X-SE-BD-0 / 70-NE-C-X-SE-BD-0 / 50-NE-C-X-SE-BD-0 • 100-NE-C-R-SE-BD-0 / 70-NE-C-R-SE-BD-0 / 50-NE-C-R-SE-BD-0 <p>(***) as described in the specific report of the assessment of the performance prepared and issued by PROCERTUS for HYDRO EXTRUSION DRUNEN BV</p> | | |
| <p style="text-align: center;">C. Supports for use with fixed vertical road traffic signs including among others signal heads according to EN 12368:2006 and variable message traffic signs according to EN 129661:2009</p> <p style="text-align: center;">Material – Extruded aluminium stepped or conical circular tubes Grade – $f_y = 160$ or 260 N/mm^2 (characteristic elastic limit) Dimensions expressed in nominal diameter and nominal wall thickness from 76 mm by 2.5 mm to 330 mm by 12.5 mm with Structural Performance declared by the Producer according to hEN12899-1:2007, §5</p> <p style="text-align: center;">Durability: Resistance to corrosion – Aluminium; SP1 Without Performance under vehicle impact (passive safety)</p> <p>6. Products with nominal height of 10 m and all smaller members, but over 2 m.</p> | | |

| Products | Qualities and categories | Dimensions |
|---|--------------------------|------------|
| Harmonised standard under reference: hEN 12899-1:2007 | | |
| <p data-bbox="347 353 1203 387">D. Supports for use with fixed vertical road traffic signs</p> <p data-bbox="261 392 1286 443">including among others signal heads according to EN 12368:2006 and variable message traffic signs according to EN 129661:2009</p> <p data-bbox="389 448 1206 477">Material – Extruded aluminium stepped or conical circular tubes</p> <p data-bbox="475 479 1120 508">Grade – $f_y = 160 \text{ N/mm}^2$ (characteristic elastic limit)</p> <p data-bbox="379 510 1216 539">Dimensions expressed in nominal diameter and nominal wall thickness</p> <p data-bbox="644 542 951 571">165 mm by 3.3 mm (D.6.)</p> <p data-bbox="644 573 951 602">250 mm by 4.0 mm (D.7.)</p> <p data-bbox="268 604 1331 633">with Structural Performance declared by the Producer according to hEN12899-1:2007, §5</p> <p data-bbox="459 667 1136 696">Durability: Resistance to corrosion – Aluminium; SP1</p> <p data-bbox="277 698 1318 757">With or without performance under vehicle impact (passive safety) for single post supports:</p> <p data-bbox="146 792 1315 887">7. Products with above mentioned nominal diameter and nominal wall thickness, with maximum nominal height of 2.6 m and all smaller members, but over 2 m, with a top load of maximal 200 kg founded using a backfill type R (Rigid) (***) .</p> <p data-bbox="146 889 759 918">Passive safety according to EN 12767:2019:</p> <ul data-bbox="258 920 1203 949" style="list-style-type: none"> • 50-NE-C-R-SE-MD-0 / 70-NE-C-R-SE-MD-0 / 100-NE-C-R-SE-MD-0 <p data-bbox="146 952 1315 1046">8. Products with above mentioned nominal diameter and nominal wall thickness, with maximum nominal height of 2.6 m and all smaller members, but over 2 m, with a top load of maximal 200 kg supplied with internal shear mechanism and founded using a backfill type R (Rigid) (****) .</p> <p data-bbox="146 1048 759 1077">Passive safety according to EN 12767:2019:</p> <ul data-bbox="258 1079 1203 1108" style="list-style-type: none"> • 50-NE-B-R-SE-MD-0 / 70-NE-B-R-SE-MD-0 / 100-NE-B-R-SE-MD-0 <p data-bbox="146 1158 1324 1216">(***) as described in the specific report of the assessment of the performance prepared and issued by PROCERTUS for HYDRO EXTRUSION DRUNEN BV (dated 20180511)</p> <p data-bbox="146 1218 1324 1276">(****) as described in the specific report of the assessment of the performance prepared and issued by PROCERTUS for HYDRO EXTRUSION DRUNEN BV (dated 20190226)</p> | | |

| Products | Qualities and categories | Dimensions |
|---|--------------------------|------------|
| Harmonised standard under reference: hEN 12899-1:2007 | | |
| <p style="text-align: center;">E. Supports for use with fixed vertical road traffic signs including among others signal heads according to EN 12368:2006 and variable message traffic signs according to EN 129661:2009</p> <p style="text-align: center;">Material – Extruded aluminium circular profiles Grade – $f_y = 215 \text{ N/mm}^2$ (characteristic elastic limit) Dimensions expressed in nominal diameter and nominal wall thickness 320 mm by 3.5 mm with Structural Performance declared by the Producer according to hEN12899-1:2007, §5</p> <p style="text-align: center;">Durability: Resistance to corrosion – Aluminium; SP2 With or without performance under vehicle impact (passive safety) for single post supports:</p> <p>9. Products with Trade Name: HCP320 (High Capacity Post), diameter 320 mm, profiled, with nominal height of 8 m and all smaller members, but over 2 m using, founded: rigid, backfill type R. (*).</p> <p>Passive safety according to EN 12767:2019:</p> <ul style="list-style-type: none"> • 50-NE-C-R-SE-MD-0 (**) • 70-NE-C-R-SE-MD-0 (**) • 100-NE-C-R-SE-MD-0 (**) <p>(*) as described in the specific report of the assessment of the performance prepared and issued by PROCERTUS for HYDRO EXTRUSION DRUNEN BV (dated 20230330) (**)These NE-classes also include, as BD, multilegged supports with clear distances greater than 1600 mm (according to EN 12767:2019, Annex G.2.5 and Annex K note B; $1\ 600 \text{ mm} = 1\ 500/\cos 20^\circ$)</p> | | |