



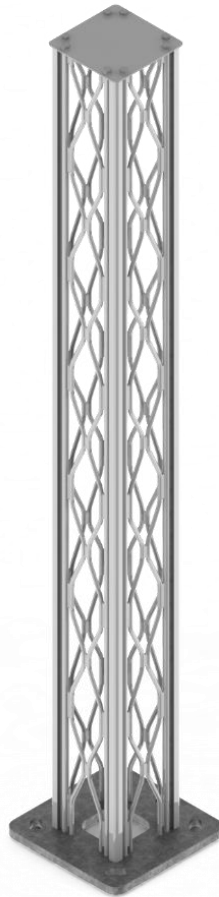
Lattix® - Strong, light and safe

Declaration of Performance

Lattix® 4420

Lattix 4420, Lattix 4420FR

*Passive safety mast
No. 0402 – CPR – SC0444-12*



Lattix Production AB

Production

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Lattix® 4420

No. 0402 – CPR – SC0444-12



Product name

Lattix 4420 (Variants: Lattix 4420FR)

Product specifications

The Lattix® 4420 mast system can be used as mast for sign support, other information and surveillance equipment or other applications. The mast is delivered as a complete assembly including mast, base plate and top plate.

The mast is tested and approved according to:

- EN 12899-1, Fixed, vertical road traffic signs
- EN 12767, Passive Safety of support of structures for road equipment

Full-scale impact crash tests and simulations have been performed according to EN 12767 at a speed of 35 km/h and 100 km/h with 6,3 m mast length. Simulations show that the mast will have equal performance up to 8,65 m length. Consequently, the mast is approved for 8,65 m maximum height and at least 1,5 m from the ground to bottom of sign.

Referring to EN 12767 the untested reduced minimum height of the lower edge of the sign should not be lower than 2,0 m due to the risk of the penetration of the windscreen of an impacting car, but lower installations may be used when evaluated.

The Lattix® 4420 mast system is approved both as single and multi-legged support. For multi-legged supports the distance between the inside of each of the legs must not be less than 1,6 m. All performance presumes sufficient foundation.

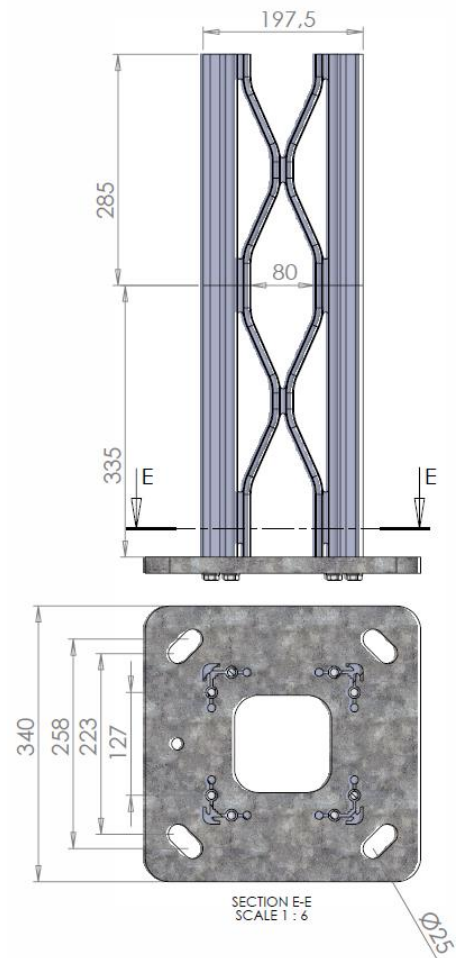
Performance under vehicle impact (passive safety) according to EN 12767:2000	Value
Performed speed class tests and simulations	35 km/h and 100 km/h
Approved speed class	100
Approved function class	NE (non energy absorbing)
Approved safety class	3

Durability	Value
Resistance to corrosion	Aluminium, class SP 2

The Lattix® 4420 mast system is produced in many standard lengths, but can also be produced in customized length if desired.

Lattix® Mast 4420				
Standard length [mm]	Art. Nr.		Standard length [mm]	Art. Nr.
2330	JU200724		5800	JU200737
2615	JU200725		6085	JU200733
2950	JU200726		6370	JU200738
3235	JU200727		6655	JU200739
3520	JU200728		6940	JU200763
3805	JU200729		7225	JU200764
4090	JU200730		7510	JU200765
4375	JU200734		7795	JU200766
4660	JU200731		8080	JU200767
4945	JU200735		8365	JU200768
5230	JU200732		8650	JU200769
5515	JU200736			

Maximum length is 8650 mm. Length tolerances according to EN 755-9



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Material / Surface treatment

Mast: EN-AW 6063 T66
Base plate: S355J2+N, Hot dip galvanized steel according to EN ISO 1461
Bolts: BUMAX 109

The Lattix® 4420 mast system can be powder-coated, anodized and chromed.
All classes of corrosion resistance can be provided by various surface treatment.

Data / Weight

Product	Mast side length [mm]	Section shape [mm], (square-cut)	Mast weight [kg/m]	Base plate weight [kg]	Bolt pattern, foundation [mm]	Foundation thread/nuts
Lattix 4420	197,5	197,5 x 197,5	7,6	Ca. 15,5	258 x 258	M20
Lattix 4420FR				Ca. 13,5	200 x 200	

Capacity

Product	Maximum bending moment, M_u [kNm] *)	Stiffness for bending, EI [kNm ²]	Shear capacity, F_u [kN]	Maximum torsion moment, T_u [kNm] *)	Stiffness for torsion, Gk [kNm ²]	Stiffness for torsion, Gk [kNm/(deg/m)]
Lattix 4420	40	728	20	4,5	71	1,24
Lattix 4420FR						

*) The moments do not take into account the partial material factor γ_m . EN 12899-1 gives a γ_m for aluminium of 1,15.

Assembly and accessories

The Lattix® 4420 mast is delivered fully-assembled with top plate and accordant base plate if not specified differently.

Lattix® Element Masts can be delivered with accessories kits:

- top plates,
- base plates,
- foundations,
- sign clamps,
- cable covers,
- brackets for tunnel,
- connector plates
- etc.

For assembly information, please ask for the assembly guide.

Maintenance

No maintenance required.

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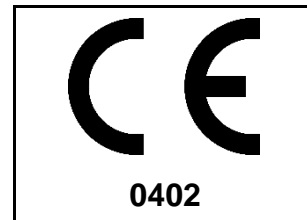
CE marking and system of assessment and verification of constancy of performance

CE marked according to EN 12899-1:2007 in compliance with Regulation 305/2011/EU.

Notified body no. 0402.

See attached certificate.

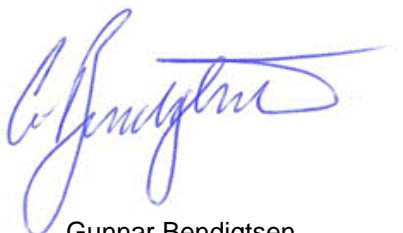
The CE label gives all important information on data and capacity. Within the production process the masts are marked for traceability.



Referrals

- Data sheet
- Installation guide
- EC Certificate of conformity No. 0402 – CPR – SC0444-12

Approval by the manufacturer



Gunnar Bendigtsen
Managing Director



Tore Tøndevold
Technical Manager

19.11.2018



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