

DECLARATION OF PERFORMANCE (DoP) Lattix[®] 4412 Passive Safety Mast

0402-CPR-SC0444-12 EN12899-1:2007 Lattix[®] 4412, Lattix[®] 4412FR

Performance under vehicle impact (passive safety): According to EN12767:2019 100-NE-C-S-SE-MD-0

Product name

Lattix[®] 4412 (Variants: Lattix[®] 4412FR)

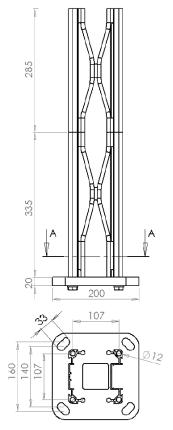
Product specifications

The Lattix[®] 4412 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 12899-1:2007, Fixed, vertical road traffic signs
- EN 12767:2019, Passive Safety of support of structures for road equipment

Lattix [®] 4412 mast system						
Standard length [mm]	Art Nr		Standard length [mm]	Art. Nr.		
620	JU201721]	4090	JU201705		
905	JU201722		4375	JU201712		
1190	JU201723		4660	JU201706		
1475	JU201724		4945	JU201713		
1760	JU201725		5230	JU201714		
2045	JU201701]	5515	JU201715		
2330	JU201702]	5800	JU201716		
2615	JU201709]	6085	JU201717		
2950	JU201703]	6370	JU201718		
3235	JU201710		6655	JU201719		
3520	JU201704]	6940	JU201720		
3805	JU201711	1				
Maximum length is 6940 mm. Length tolerances according to EN 755-9						



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 at least 1,5 m from the ground to bottom of sign.

Referring to EN 12767:2019 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[®] 4412 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.



Material / Surface treatment

Mast: EN-AW 6063 T66 Resistance to corrosion: Aluminum, class SP 2 Bolts: A4-100 Base plate: S355J2+N, Hot dip galvanized steel according to EN ISO 1461, 200mm x 200mm x 20mm.

The Lattix[®] 4412 mast system can be powder-coated, anodized and chromed. All classes of corrosion resistance can be provided by various surface treatment.

Data / Weight

	Mast side width [mm]	Section shape [mm], (square-cut)	Mast weight [kg/m]	Base plate weight [kg]	Bolt pattern, foundation [mm]	Foundation thread/nuts
Lattix 4412	125	125 x 125	10	Ca. 3,9	150 x 150	M16
Lattix 4412FR	125	125 X 125	4,8	Ca. 13,3	200 x 200	

Capacity

Product	Maximum	Stiffness	Shear	Maximum	Stiffness	Stiffness for
Lattix [®] 4412,	bending	for	capacity,	torsion	for	torsion, Glt
Lattix 4412, Lattix	moment,	bending,	FU [kN]	moment,	torsion,	[kNm/(deg/m)]
4412FR	Mu [kNm]	EI		T _u [kNm]	Glt	
(The properties are dependent on the load application side, see sketch to the right)	*)	[kNm²]		*)	[kNm2]	
Load applied to massive walls, F1	16	251	7,82	1,4	18	0,32
Load applied to lattice walls, F2	13	208	6,34	1,4	18	0,32

*) The moments and shear capacity do not take into account the partial material factor 2m. EN 12899-1 gives a Ym for aluminum of 1,15.

Assembly and accessories

The Lattix[®] 4412 mast is delivered fully-assembled with top plate and accordant base plate if not specified differently.

The 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.



CE marking and system of assessment

- CE marked according to EN 12899-1:2007 in compliance with Regulation 305/2011/EU.
- Performance under vehicle impact (passive safety) according to EN12767:2019, 100-NE-C-S-SE-MD-0
- Notified body no. 0402.

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

Approvabby the manufacturer

Miln

Gunnar Bendigtsen Managing Director

Långed, Sweden, November, 2022

anderold

Tore Tøndevold Technical Director

