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Disclaimer

Read the full manual before installation. All described work must be performed by trained personnel. Should you deviate from the instructions, any warranty entitlement and liability of the manufacturer shall no longer apply.

Safet

- Always wear the correct protective clothing when performing the work.
- Always use a lifting tool/hoisting system when moving heavy and/or large objects.
- · Always use suitable tools.
- Adding or removing parts other than as described in this manual can have negative consequences on the functioning and, therefore, the safe operation of the final product and we categorically advise against this.

Removing and disassembling

Dispose of the product in accordance with local legislation and regulations.

Dimensions

All sizes and dimensions are in mm unless stated otherwise.

Use concrete

Wear protective gloves when handling concrete.

Contact

See the back of this manual.

T&I Technical Construction File

Heras, T&I department.

Explanation of symbols

(Noise reducer = NR / Noise reducer HA = NR HA)



Protective gloves

Use protective gloves when working with concrete



Level

Leveling



Protective mask

Use a protective mask when working with concrete



Waiting time

Time to dry



Inside terrain

Defines the inside of the terrain



Cran

Use for heavy lifting



Outside terrain

Defines the outside of the terrain



Electric screwdriver

Use an electric screwdriver



Laser level

Use to calculate a straight line



Bitargusdrive

Bitargusdrive apply for schrck840sec



Shovel

Indicates that a hole needs to be dug



Mounting side

Mount on this side

 $oldsymbol{2}$

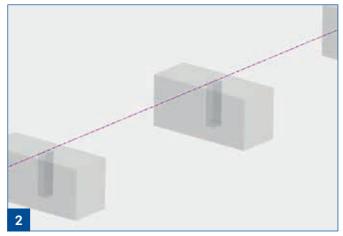
Check work-site

Appendix 1



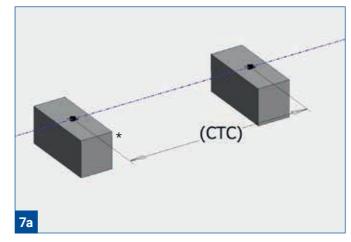
Wind zone Appendix 1

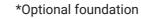
Appendix 2

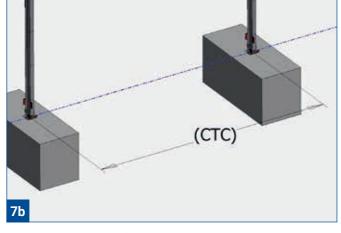


Foundation dimensions Appendix 2

Installing posts and mounting panels



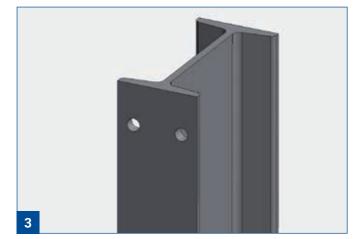




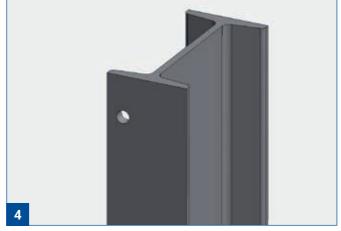
NR post CTC = panel size + 10 mm NR HA post CTC = panel size + 40 mm



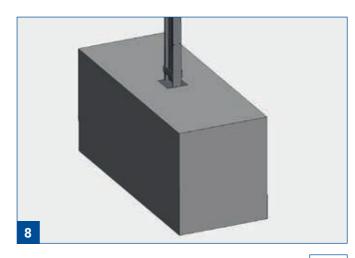
Check delivered parts

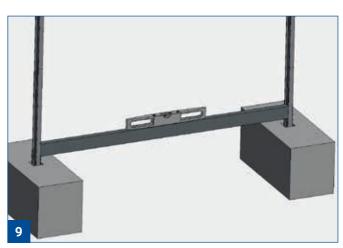


Center-post



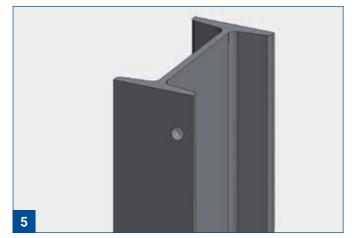
Right-post



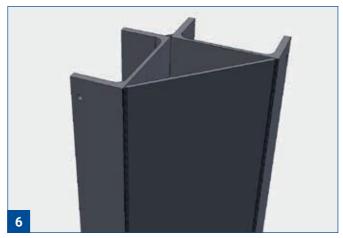


Optional: support beam

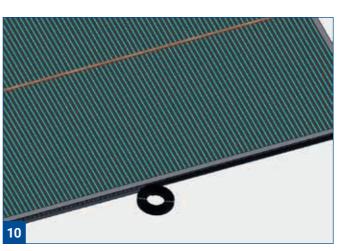




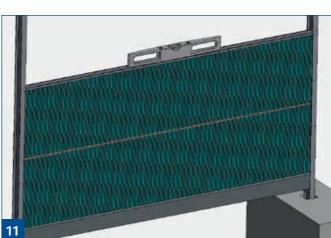
Left-post



Corner-post (optional)



Sealing tape bottom side









Bill of Materials

Item Drawing	Picture	Name	Heras code
3		Post	See pricelist
11		Panel	See pricelist
11	Danian.	LZ Bolt	2023359
10	6	LZ Masking tape	2024875
9		Support beam (optional)	2031661
7, 8		Pre cast foundation (optional)	
8		Foundation	

Appendix 1

Static calculations Noise reducers





Noise reducer

Maximum height of wall

3000 mm

Maximum width of panel

2500 mm

Conditions of static calculation

Wind loads according to load assumption DIN 1991 / EC1

- wind zone 2, inland: $h \le 10 \text{ m} -> q = 0.65 \text{ kN} / \text{m}^2$
- snow and ice loads can be neglected
- · impact loads are not the subject of this design

Foundation design according to basic construction DIN EN 1997 / EC7 assumptions

- bedding module KS = $25000 \text{ kN} / \text{m}^3$ for foundations KS = ES / d
- bedding module KS = 90000 kN / m³ for rammed IPE supports KS = (ES / b) * 0.5 permissible EB> 200 kN / m²
- soil class 3 5 (grown viable soil)
- ground water level is lower than underside of post supports
- slopes do not influence the post support sizes

Noise reducer HA

Maximum height of wall

6000 mm

Maximum width of panel

4000 mm

Conditions of static calculation

Wind loads according to load assumption DIN 1991 / EC1

- wind zone 2, inland: $h \le 10 \text{ m} -> q = 0.65 \text{ kN} / \text{m}^2$
- snow and ice loads can be neglected
- impact loads are not the subject of this design

Foundation sizes according to soil engineering DIN EN 1997 / EC7

- soil class 3 and 4
- valid ground pressure > 200 kN / m²
- ground water level is lower than underside of post supports
- slopes do not influence the post support sizes

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Appendix 2a

Post & foundation dimensions Noise reducer

Noise reducer

Posts and foundation dimensions (panel length max. up to 2500 mm).

Total height	Post-profile	Length	Post foundation dimensions	
in mm		in mm	Diameter in mm Depth in	
1800	IPE 120	2700	600 1000	
2000	IPE 120	2700	600 1000	
2500	IPE 120	3200	600 1000	
3000	IPE 120	3700	700 1000	

All data is based on locations with heights under 800 m above sea level within wind zones 1 and 2 (NL).

Appendix 2b

Post & foundation dimensions Noise reducer HA

Noise reducer HA

Post and foundation dimensions (panel length max. up to 2960 mm).

Total height in mm	Post-profile	Length in mm
2000	IPE 140	2400
3000	HEA 140	3500
4000	HEA 160	4500
5000	HEA 240	5600
6000	HEA 240	6600

Post foundation dimensions		
Length in mm	Width in mm	Depth in mm
700	1700	800
800	2150	800
1000	2300	1000
1300	2800	1200
1300	2800	1200

Panel length > 2960 mm to max. 3960 mm

Total height in mm	Post-profile	Length in mm
2000	IPE 160	2400
3000	HEA 160	3500
4000	HEA 200	4500

Post support sizes		
Length in mm	Width in mm	Depth in mm
800	1700	800
1000	2200	800
1200	2300	1200

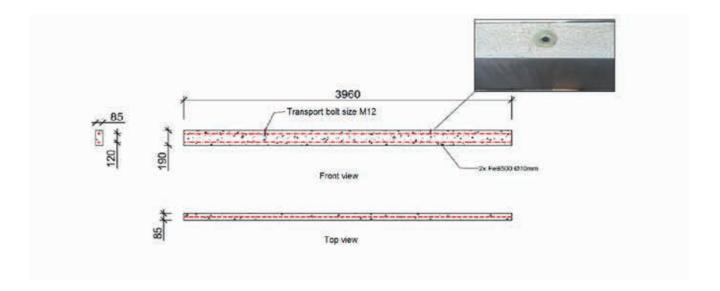
All data is based on locations with heights under 800 m above sea level within wind zones 1 and 2 (NL).

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Appendix 3

Support beam Noise reducer HA

Noise reducer HA Support beam



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