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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.

Safety

- 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
- **Protective mask**
  - Use a protective mask when working with concrete
- **Inside terrain**
  - Defines the inside of the terrain
- **Outside terrain**
  - Defines the outside of the terrain
- **Laser level**
  - Use to calculate a straight line
- **Shovel**
  - Indicates that a hole needs to be dug
- **Level**
  - Leveling
- **Waiting time**
  - Time to dry
- **Crane**
  - Use for heavy lifting
- **Electric screwdriver**
  - Use an electric screwdriver
- **Bitargusdrive**
  - Bitargusdrive apply for schrck840sec
- **Mounting side**
  - Mount on this side
Check work-site

Appendix 1

Wind zone

Appendix 2

Foundation dimensions

Check delivered parts

1. Center-post

2. Right-post

3. Left-post

4. Corner-post (optional)

Installing posts and mounting panels

Appendix 2

*Optional foundation

NR post CTC = panel size + 10 mm

NR HA post CTC = panel size + 40 mm

Optional: support beam

Sealing tape bottom side
## Bill of Materials

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<th>Drawing</th>
<th>Picture</th>
<th>Name</th>
<th>Heras code</th>
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## 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
  - Wind zone 2, inland: \( h \leq 10 \text{ m} \rightarrow q = 0.65 \text{ kN/m}^2 \)
  - Snow and ice loads can be neglected
  - Impact loads are not the subject of this design

**Foundation design according to basic construction**

- Bedding module \( KS = 25000 \text{ kN/m}^3 \) for foundations \( KS = ES / d \)
- Bedding module \( KS = 90000 \text{ kN/m}^3 \) for rammed IPE supports \( KS = (ES / b) \times 0.5 \) permissible \( EB > 200 \text{ kN/m}^2 \)
- 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
  - Wind zone 2, inland: \( h \leq 10 \text{ m} \rightarrow q = 0.65 \text{ kN/m}^2 \)
  - Snow and ice loads can be neglected
  - Impact loads are not the subject of this design

**Foundation sizes according to soil engineering**

- 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
# Appendix 2a
## Noise reducer
Posts and foundation dimensions (panel length max. up to 2500 mm).

<table>
<thead>
<tr>
<th>Total height in mm</th>
<th>Post-profile</th>
<th>Length in mm</th>
<th>Post foundation dimensions Diameter in mm</th>
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All data is based on locations with heights under 800 m above sea level within wind zones 1 and 2 (NL).

# Appendix 2b
## Noise reducer HA
Post and foundation dimensions (panel length max. up to 2960 mm).

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<th>Length in mm</th>
<th>Post foundation dimensions Length in mm</th>
<th>Width in mm</th>
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### Panel length > 2960 mm to max. 3960 mm

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All data is based on locations with heights under 800 m above sea level within wind zones 1 and 2 (NL).
Appendix 3
Support beam Noise reducer HA

Noise reducer
HA Support beam