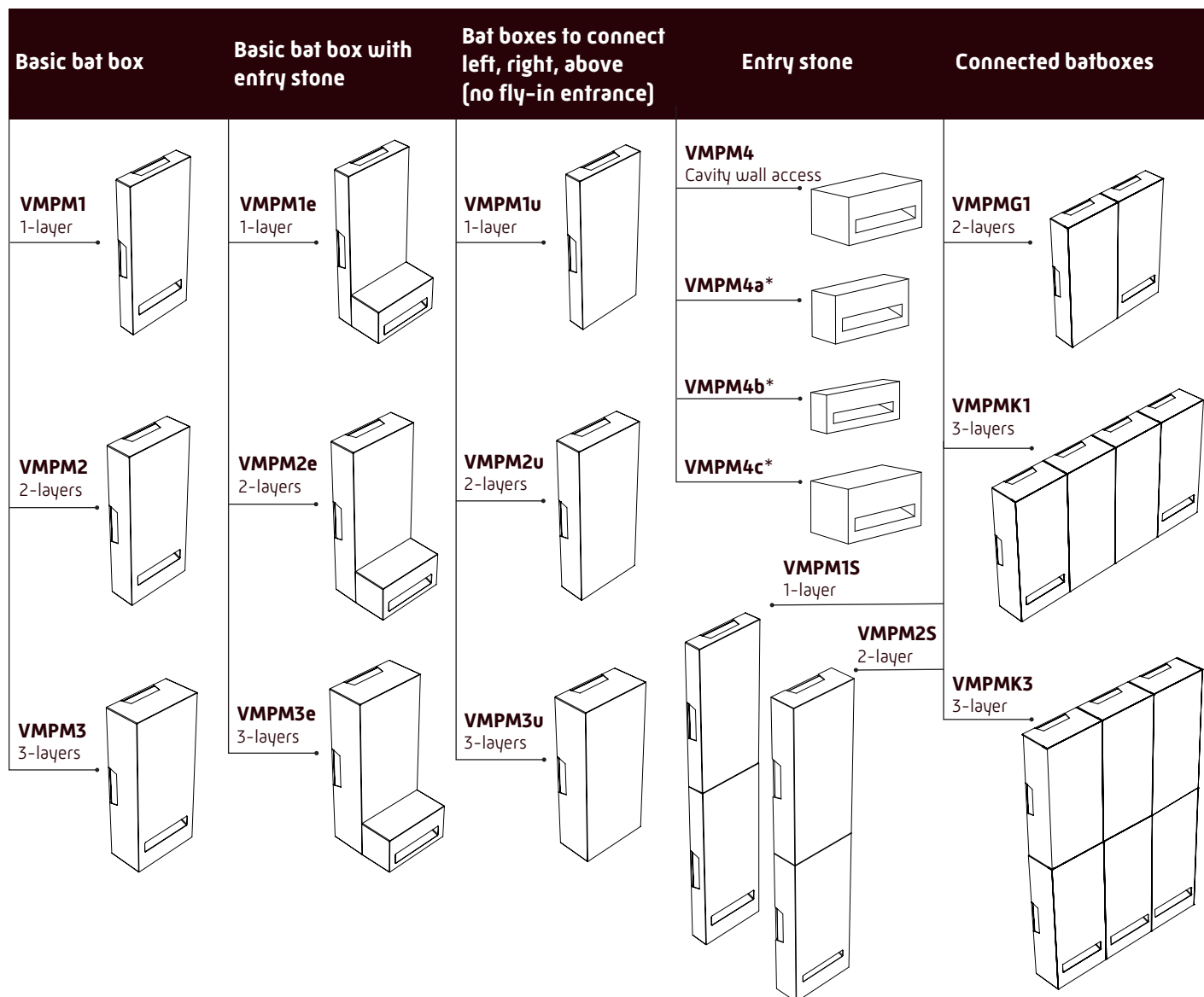


# Product data, installation & maintenance

1/4

Modular built-in bat boxes made of wood concrete

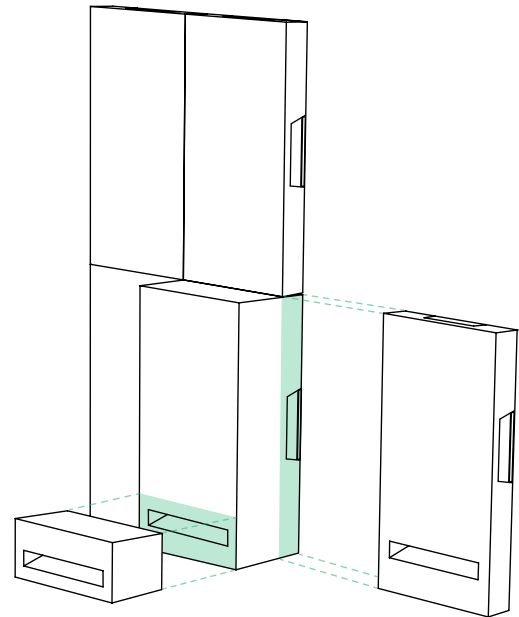
VMPPM | VMPPMe | VMPPMu | VMPPM4 | VMPPMG | VMPPMK



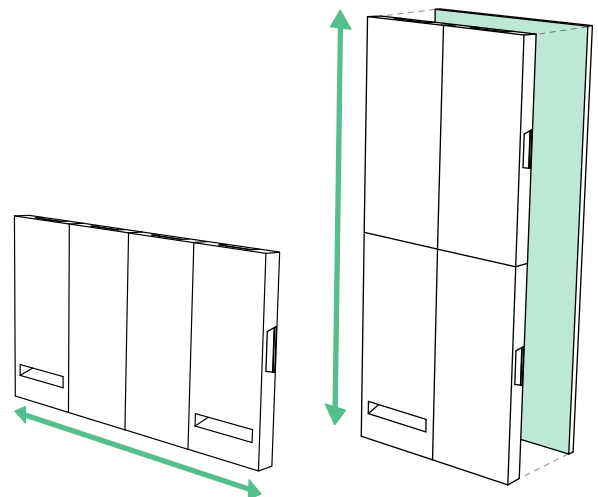
| Type                 | No.      | Material      | Layers   | Weight  | [HxL] Outer dimensions | Depth outside | Depth inside | Load bearing structure | Fire class wood concrete |
|----------------------|----------|---------------|----------|---------|------------------------|---------------|--------------|------------------------|--------------------------|
| Basic bat box        | VMPPM1   | Wood concrete | 1 layer  | 3.9 kg  | 48.7x22 cm             | 5.2 cm        | 1x 2.5 cm    | No                     | A2                       |
|                      | VMPPM2   | Wood concrete | 2 layers | 5.5 kg  | 48.7x22 cm             | 8.2 cm        | 2x 2.5 cm    | No                     | A2                       |
|                      | VMPPM3   | Wood concrete | 3 layers | 7.1 kg  | 48.7x22 cm             | 11.3 cm       | 3x 2.5 cm    | No                     | A2                       |
| Bat box +entry stone | VMPPM1e  | Wood concrete | 1 layer  | 6.2 kg  | 48.7x22 cm             | 15.7 cm       | 1x 2.5 cm    | No                     | A2                       |
|                      | VMPPM2e  | Wood concrete | 2 layers | 7.8 kg  | 48.7x22 cm             | 18.7 cm       | 2x 2.5 cm    | No                     | A2                       |
|                      | VMPPM3e  | Wood concrete | 3 layers | 9.4 kg  | 48.7x22 cm             | 21.8 cm       | 3x 2.5 cm    | No                     | A2                       |
| Bat boxes to connect | VMPPM1u  | Wood concrete | 1 layer  | 3.7 kg  | 48.7x22 cm             | 5.2 cm        | 1x 2.5 cm    | No                     | A2                       |
|                      | VMPPM2u  | Wood concrete | 2 layers | 5.0 kg  | 48.7x22 cm             | 8.2 cm        | 2x 2.5 cm    | No                     | A2                       |
|                      | VMPPM3u  | Wood concrete | 3 layers | 6.2 kg  | 48.7x22 cm             | 11.3 cm       | 3x 2.5 cm    | No                     | A2                       |
| Entry stone          | VMPPM4   | Wood concrete | -        | 2.3 kg  | 11.2x22 cm             | 10.5 cm       | -            | No                     | A2                       |
|                      | VMPPM4a* | Wood concrete | -        | 1.1 kg  | 11.2x22 cm             | 5 cm          | -            | No                     | A2                       |
|                      | VMPPM4b* | Wood concrete | -        | 0.7 kg  | 11.2x22 cm             | 3 cm          | -            | No                     | A2                       |
|                      | VMPPM4c* | Wood concrete | -        | 3 kg    | 14x22 cm               | 10.5 cm       | -            | No                     | A2                       |
| Large bat box        | VMPPMG1  | Wood concrete | 2 layers | 10.5 kg | 48.7x44 cm             | 8.2 cm        | 2x 2.5 cm    | No                     | A2                       |
| Maternity bat box    | VMPPMK1  | Wood concrete | 3 layers | 26.6 kg | 48.7x88 cm             | 11.3 cm       | 3x 2.5 cm    | No                     | A2                       |
|                      | VMPPMK3  | Wood concrete | 3 layers | 39.9 kg | 97.4x66 cm             | 11.3 cm       | 3x 2.5 cm    | No                     | A2                       |
| Summer bat box       | VMPPM1S  | Wood concrete | 1 layer  | 7.8 kg  | 97.4x22 cm             | 5.2 cm        | 1x 2.5 cm    | No                     | A2                       |
|                      | VMPPM2S  | Wood concrete | 2 layers | 10.5 kg | 97.4x22 cm             | 8.2 cm        | 2x 2.5 cm    | No                     | A2                       |

\*Only combine with basic bat boxes

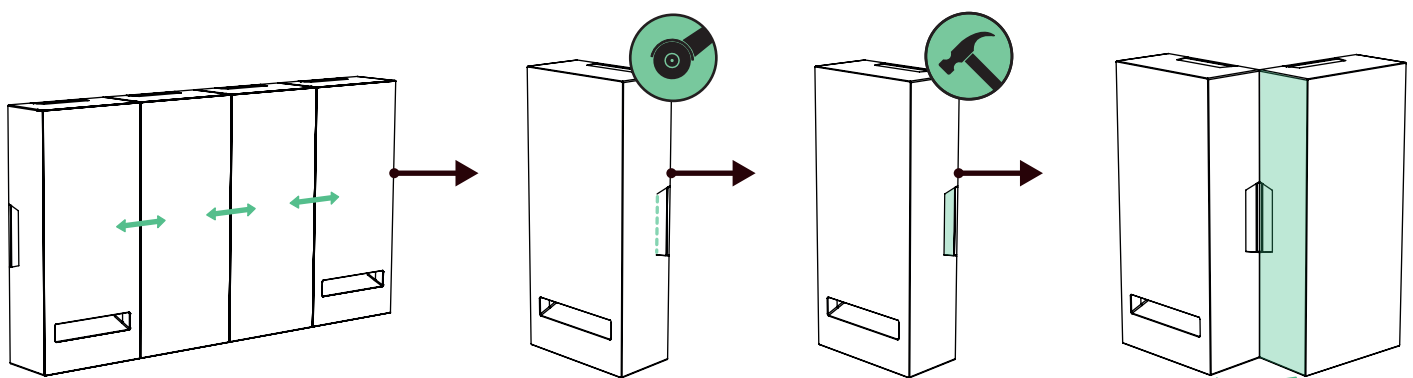
- 1 Connection possibilities:** It is possible to connect bat boxes. This allows all possible built-in bat boxes to be assembled. When boxes are placed next to another, they must be connected.



- 2 Horizontal connecting:** When using bat boxes in masonry, it is important that the masonry is in good condition and sufficiently stable. The boxes have no load bearing function. The forces must be absorbed in the overlying masonry. Consult a structural engineer for your specific project.



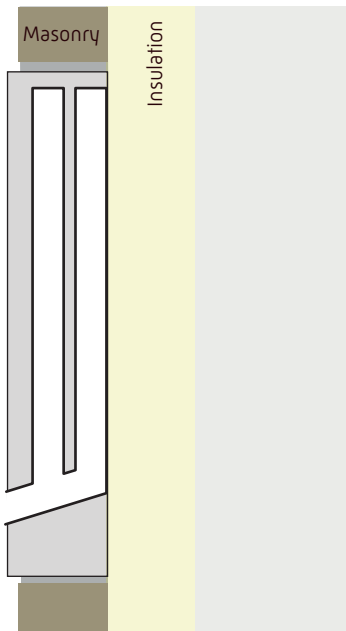
- 3 Vertical connecting:** When multiple bat boxes are placed on top of each other, we recommend gluing the boxes to a waterproof panel. The whole can then be placed in the wall. The panel is not included.



- 4 How to connect:** All breakable walls of the bat boxes that are placed next to each other must be removed.
- A** Use a small angle grinder to cut through the top of the breakable walls.
- B** Use a hammer to remove the breakable walls.
- C** Connect the bat boxes with the removed walls facing each other.

### 1 Level with masonry

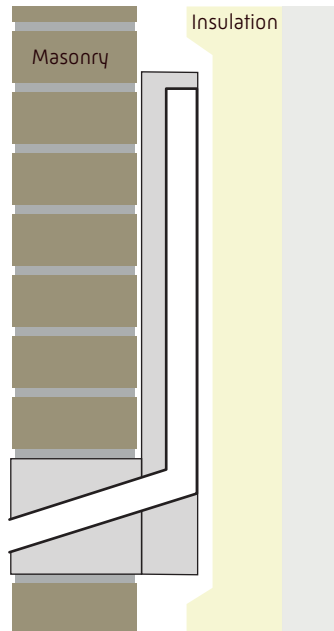
Let the bat box protrude slightly from the wall if needed. A layer of insulation must remain behind the box to prevent a thermal bridge.



VMPM1/2/3 + VMPM1u/2u/3u

### 2 Behind masonry with entry stone

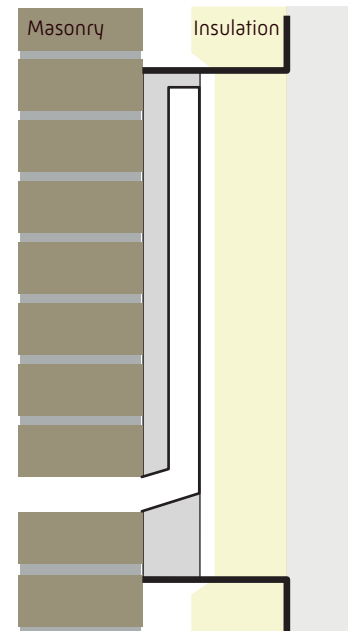
Keep the bat box free from insulation material.



VMPM1e/2e/3e + VMPM1u/2u/3u

### 3 Completely behind masonry

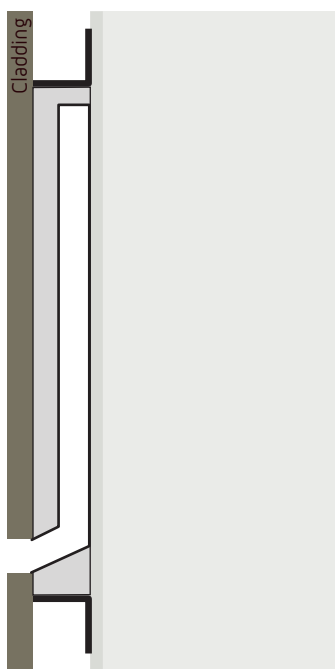
Ensure a gap-free connection of the bat box against the masonry. Mounting with corner anchors. The opening must be 30 mm high and 170 mm wide.



VMPM1/2/3 + VMPM1u/2u/3u

### 4 Behind cladding

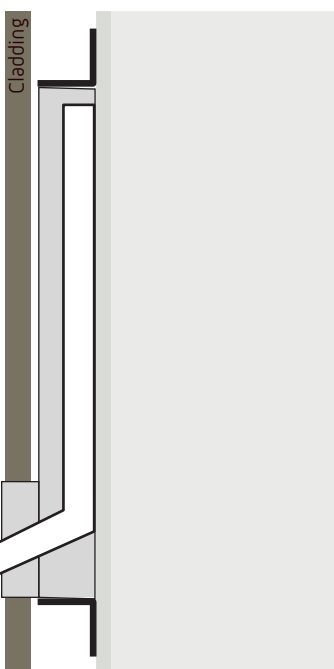
This structure is only suitable for rough wooden, closed facade cladding. Ensure a gap-free connection of the bat box against the cladding. The opening must be 30 mm high and 170 mm wide.



VMPM1/2/3 + VMPM1u/2u/3u

### 5 Behind cladding with entry stone

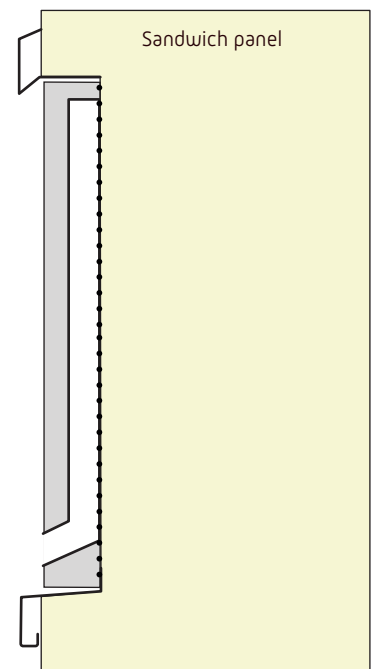
For open facade cladding and smooth facade panels, such as steel sheets, an entry stone must be used to ensure the bat box is easily found and to provide enough grip to enter.



VMPM1/2/3 + 4a/4b/4c + VMPM1u/2u/3u

### 6 In sandwich panel

The bat box must always be fully visible in the panel.



VMPM1/2/3 + VMPM1u/2u/3u

## Other advice



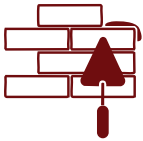
### Project-related requirements and Building Regulations

Specific project-related requirements and the guidelines of the Building Regulations must be adhered to at all times.



### Construction

Specific situations, building systems or prefab constructions must always be carried out in consultation with and on the advice of the manufacturer and project-specific consultant. This concerns advice in the areas of structural engineering, fire safety, and building physics.



### Supporting the overlying masonry

For built-in bat boxes wider than 80 cm and when multiple boxes are connected to each other. Apply and install based on the advice of the project-specific consultant.



### Thermal insulation and thermal bridges

The remaining insulation thickness behind the bat box must not be less than 80 mm. Sufficient attention must be paid to the influence on the thermal insulation of the facade (R-value).

## Maintenance



### Inspection and repair

The bat box must be inspected once every two years. Check for cracks and any other damage to and around the box. Inspect the water-repellent coating. Repair any damage and touch up the water-repellent coating if needed.