Processing guideline
binderholz CLT BBS
PROCESSING GUIDELINE
BINDERHOLZ CLT BBS

PURPOSE

In this processing guideline, you will discover everything you need to know for the further processing of binderholz CLT BBS. This information ensures that even experts without BBS experience can construct buildings in solid wood construction professionally and properly.

The installation guidelines are kept as simple and easy as possible.

TARGET GROUP

The target group of this processing guideline is the person or company in direct charge of further processing of binderholz CLT BBS.
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**Processing guideline - binderholz CLT BBS**

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MANIPULATION I LOADING

Loading

Standard tarpaulin-covered truck

Truck dimensions

Standard semi-trailer

Truck dimensions
MANIPULATION I LOADING

Transport

Delivery standing upright

Delivery lying flat

Open delivery

Closed delivery
MANIPULATION I LOADING

Special transport

Telescopic semi-trailer

Dimensions of 16.5 m in length and/or over 2.5 m in width shall be deemed special transport. Note different country regulations.
MANIPULATION I LOADING

Loading instructions

**BBS 125**

**Execution**
- Transport always lying flat
- Package wrapped in foil
- Use underlay with integrated anti-slip mats

**BBS XL**

**Execution**
- Wrapping the whole load in foil or packages wrapped in foil
- Take note of weather conditions while unloading

**ATTENTION**

- The access road to the construction site must be approved for 40-ton trucks.
- Checking whether the truck can handle the drive to the construction site (maneuverability and curve radii).
MANIPULATION I EXAMPLE OF BBS CHECK LIST

Check list

CHECKLIST FOR BBS DELIVERIES

PROJECT NAME: FAMILY NAME
PROJECT NUMBER: 1234

Would you please fill out the points below on the list, and return it to us within 2 days:

Max. weight of package [kg]: 2500 (Minimum: 1500 kg, Standard: 2500 kg)

With which hoist does the unloading take place?
- Forklift truck
- Crane

Assembly sequence:
Specifying the assembly sequence based on our trimming plans, e.g., element 1, element 2, ...
Without specifying the assembly sequence will be specified by us.

How do the items need to be packaged?

- Visible side up
- Visible side down, except the bottom-most item

If BBS CNC-Abband, Secure packaging:
- Wall items: visible side up
- Ceiling items: visible side down, except the bottom-most item

Is access possible for a semi-trailer (open or closed, with extension), 13.6 m long?
- Yes
- No. I would prefer a delivery with:

Your contact name on site:

Name: ANDY SIMPSON
Phone number: 0041 7134 51890

Delivery address:
Works site (name): BUILDING SITE
Street/road, number: ABBEY ROAD 69
Post-code, place of delivery: GB, EB 7X6

Required delivery date: DD/MM/YY

On principle:
As far as ground conditions and space are concerned, access must be suitable for a semi-trailer.

Delivery time | tolerances:
- Distances up to 500 km: +/- 1 hour of agreed delivery time
- Distances up to 1000 km: +/- 3 hours of agreed delivery time

Delivery times shipped by sea are excluded from the tolerances indicated above.

Loading time:
- 2 full hours, free of charge

Packing time:
- € 65 / hour, fractions of hours are counted as full hours

This checklist is part of our confirmation of order and we ask for a preservation with it at once.
Should there be no simultaneous preservation, all the decisions of packet assembling will be made in our discretion.
MANIPULATION I UNLOADING

Unloading

BBS 125

<table>
<thead>
<tr>
<th>Execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate storage of foil-wrapped packages is possible (UV-proof and weather protection)</td>
</tr>
<tr>
<td>Unloading is done by crane</td>
</tr>
<tr>
<td>Use underlay with integrated anti-slip mats</td>
</tr>
</tbody>
</table>

XL BBS

<table>
<thead>
<tr>
<th>Execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>XL elements should be built in immediately</td>
</tr>
<tr>
<td>Intermediate storage is possible, but the elements have to be protected from weather conditions</td>
</tr>
<tr>
<td>Unloading is done by crane</td>
</tr>
</tbody>
</table>

Lifting options

Assy lifting anchors

NOTE

- Application in accordance with manufacturer's specifications and certification of the lifting anchor
- Given a suspension without load-balancing traverse and such, the entire load has to be held by two screws
MANIPULATION I UNLOADING

Lifting options

NOTE
- Application in accordance with manufacturer's specifications
- One-way lifting loop with 800 kg lifting load per suspension point

NOTE
- Application in accordance with manufacturer's specifications
- Application: Lifting of ceiling elements
- Lifting load: 1000 kg per suspension point
MANIPULATION I UNLOADING

Other lifting options (to be provided by customers)

NOTE
- not in the scope of delivery of Binderholz Bausysteme GmbH

Consequences of improper lifting

ATTENTION
- Indentations due to missing corner protectors
- Indentations due to hoisting slings being too narrow
MANIPULATION I TRANSPORT DAMAGE

Notification of transport damage

**ATTENTION**

- If the goods show any damage before unloading, it is imperative that the customer indicates this fact on the delivery note.
- Binderholz Bausysteme GmbH does not pay for any damage after unloading.
MANIPULATION I STORAGE

Intermediate storage at the construction site

ATTENTION

- A distance of at least 20 cm between the package and a firm, dry substrate is required
- It is imperative to cover BBS XL elements not wrapped in foil
- Be extra careful with elements in visual quality
INSTALLATION | CONSTRUCTION SITE

Standing area for the crane

![Image of crane and scaffolding]

**Execution**

An unstable substrate can lead to the overturning of the crane

Only trained staff are allowed to operate the crane - *accident prevention regulations (APR) have to be complied with*

Scaffolding

![Image of scaffolding]

**Execution**

Secure facade scaffolding in accordance with occupational health and safety provisions

The scaffolding has to be built in tandem with the respective work steps (walls, ceilings, roof)
INSTALLATION I WALLS, GROUND FLOOR

Inspection of the floor plate

Execution

The floor plate shall be inspected with the builder (subsequent measurement on site and height control)

Bituminous waterproofing

Execution

Bituminous sealing (flame-scarfing) on finished floor plate (after drying time has been adhered to)

Install bituminous waterproofing according to manufacturer’s guidelines - if required, two-layer design (building physics must be kept in mind)
INSTALLATION I WALLS, GROUND FLOOR

Laying out the walls

Execution
Starting from pre-defined reference axes
- laying out the longitudinal axes
- measuring angle with a laser measuring instrument (cross line laser)
Applying the chalk lines

Setting angles

Execution
Fasten angles to suggested line
Space the angles according to structural analysis
INSTALLATION I WALLS, GROUND FLOOR

Height adjustment

Execution

- Adjust compensation elements to height and fix them at intervals of approx. two meters.
- Apply swelling mortar between the compensation elements across the entire wall with side overhang and in sufficient thickness.

Thresholds

Options

- Threshold pre-assembled by timber construction company
- Setting the threshold at the construction site
INSTALLATION I WALLS, GROUND FLOOR

Putting up first wall

**Execution**

- Setting first wall, positioning it exactly and perpendicularly
- Screw fastening at the base with the doweled angles
- Fix with installation supports (distance approx. 3 meters)
- Only then, disconnect from lifting device
- Apply sealing strips at the front
- Be extra careful with elements in visual quality

![Installation support](image1)

![Sealing tape](image2)
INSTALLATION I WALLS, GROUND FLOOR

Putting up second wall

**Execution**

- Set up second wall at a right angle to the first wall in order to achieve corner reinforcement
- Position perpendicularly
- Fasten screw at the base with the doweled angles
- Fasten screw of the corner joint

![Installation support](image1)

![Screw fastening of the corner joint](image2)
INSTALLATION I WALLS, GROUND FLOOR

Exterior wall - interior wall

Execution

| Screw exterior wall to interior wall |
| Insert sealing tape with dull joints |

Putting up remaining walls

Execution

| Set up the remaining walls - (like wall no. 1 and wall no. 2) |
| With longitudinal joints, screw to butt board |
INSTALLATION I CEILINGS

Applying sealing tape

Execution

Apply sealing tape to the narrow sides (faces) of walls already standing
Use self-adhesive tape
Avoid fastening with brackets for reasons of noise insulation
The sealing level must be continuous

Installing ceiling

Execution

Set first ceiling element on walls already standing
Screw the ceiling element to the walls
INSTALLATION I CEILINGS

**Second ceiling element**

*Execution*

- Set second ceiling element and pull up to first ceiling element with several beam pullers
- Screw the ceiling element to the walls
- Connecting the longitudinal joint of the elements to the butt board

**Remaining ceiling elements**

*Execution*

- Connect as with previous ceiling elements
- Create anti-fall guard for ceiling openings
- Once the remaining ceiling elements have been set, apply sealing (bitumen board, application according to manufacturer's specifications)
INSTALLATION I CEILINGS

Detail of construction, longitudinal joint of element

Execution

If required, align ceiling element from below
Lift/lower with installation support from below before screwing on the ceiling board

Detail of construction, longitudinal joint of element in the wall axes I
Bearing-out (e.g. balcony)

Execution

Sealing of the longitudinal joints of the elements
Noise insulation inside
Creation of airtight level toward the exterior
INSTALLATION I WALLS, UPPER FLOOR

Laying out the walls on the second floor

Execution

Starting from pre-defined reference axes

- laying out the longitudinal axes
- measuring angle with a laser measuring instrument (cross line laser)

Applying the chalk lines

Setting angles

Execution

Fasten angles to suggested line
Space angles to accordance at structural analysis
Protected from weather conditions

**Execution**

BBS may become wet during the construction phase - waterlogging must be avoided, though

Before the installation of further layers (e.g. ceilings, roof), the wood moisture has to be reduced to a maximum of 18% (measurement with wood moisture measuring instrument)

Permanent covering of narrow surfaces (end-grain wood) using binderholz foil from the packages; install windows as quickly as possible

Pay attention with respect to surfaces in visual quality: optical defects due to water stains and soiling must be avoided
DIRECTORY, BUILDING SHELL DETAILS

Building shell details

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<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Function</th>
<th>Dimension (examples)</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Concrete anchor" /></td>
<td>Concrete anchor or screw anchor</td>
<td>For fastening on mineral substrate (concrete, stone)</td>
<td>Ø 12 x 178 mm, Ø 16 x 220 mm</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image3.png" alt="Angle joint" /></td>
<td>Angle joint</td>
<td>For fastening of wooden walls to the substrate (wood, reinforced concrete)</td>
<td>100 x 100 mm</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image5.png" alt="Perforated plate" /></td>
<td>Perforated plate</td>
<td>For the transmission of tensile forces</td>
<td>80 x 600 mm</td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image7.png" alt="Tension anchor" /></td>
<td>Tension anchor</td>
<td>Anchor for tensile connection between wooden wall and substrate made of reinforced concrete</td>
<td>Height 540 mm</td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image9.png" alt="Full-thread screw" /></td>
<td>Full-thread screw</td>
<td>Self-drilling screw for wood, For the transmission of high tensile forces, e.g. for casings</td>
<td>Ø 11 x 160 mm</td>
<td><img src="image10.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image11.png" alt="Ribbed nail" /></td>
<td>Ribbed nail</td>
<td>For the fastening of angle connectors, joist hangers, metal plates</td>
<td>Ø 4 x 60 mm</td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image13.png" alt="Timber construction screw" /></td>
<td>Timber construction screw</td>
<td>Self-drilling screw for wood, Increase of head traverse values by inserting washers</td>
<td>Ø 6 x 80 mm, Ø 8 x 100 mm, Ø 8 x 160 mm</td>
<td><img src="image14.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image15.png" alt="Wafer-head screw" /></td>
<td>Wafer-head screw</td>
<td>Self-drilling screw for wood, Large screw head for high head traverse values</td>
<td>Ø 8 x 200 mm, Ø 10 x 240 mm, Ø 10 x 360 mm</td>
<td><img src="image16.png" alt="Image" /></td>
</tr>
</tbody>
</table>
### Building Shell Details | Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Function</th>
<th>Dimension (examples)</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Adhesive tape" /></td>
<td>Adhesive tape</td>
<td>For the creation of airtight level&lt;br&gt;Recommended for wood-to-wood connections</td>
<td>Width 60 mm</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td><img src="image3" alt="Wall barrier made of butyl" /></td>
<td>Wall barrier made of butyl</td>
<td>Protection of wood from rising moisture&lt;br&gt;Fastening with brackets</td>
<td>Width 500 mm</td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td><img src="image5" alt="EPDM sealing tape" /></td>
<td>EPDM sealing tape</td>
<td>Sealing for the creation of airtight level&lt;br&gt;Fastening with brackets</td>
<td></td>
<td><img src="image6" alt="Image" /></td>
</tr>
<tr>
<td><img src="image7" alt="Noise insulation bearing" /></td>
<td>Noise insulation bearing</td>
<td>Sealing for the creation of airtight level&lt;br&gt;Decoupling with increased requirements for noise insulation</td>
<td>Color breakdown into different compressive strengths&lt;br&gt;Use of different bearings depending on the given line load</td>
<td><img src="image8" alt="Image" /></td>
</tr>
<tr>
<td><img src="image9" alt="EPDM steel band" /></td>
<td>EPDM steel band</td>
<td>Sealing for the creation of airtight level&lt;br&gt;Decoupling with normal requirements for noise insulation</td>
<td>Depending on the project, a specific calculation is recommended</td>
<td><img src="image10" alt="Image" /></td>
</tr>
<tr>
<td><img src="image11" alt="Adhesive" /></td>
<td>Adhesive</td>
<td>For the creation of airtight level</td>
<td>PU adhesives, installation adhesive</td>
<td><img src="image12" alt="Image" /></td>
</tr>
<tr>
<td><img src="image13" alt="Insulation" /></td>
<td>Insulation</td>
<td></td>
<td>Mineral wool, cellulose, EPS/XPS</td>
<td><img src="image14" alt="Image" /></td>
</tr>
</tbody>
</table>

---

**The following construction details were compiled with the friendly assistance of Rotho Blaas GmbH**

You can find product information at: [www.rothoblaas.com](http://www.rothoblaas.com)
### SEALING

| 12 x 178 |

### DESIGN

| 4 x 60 | 8 x 160 |

---

**FOUNDATION - EXTERIOR WALL**

- 20°
- 4 x 60
- 12 x 178
- 8 x 160

*Sealing Design*
FOUNDATION - INTERIOR WALL

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Image" /></td>
<td><img src="image2" alt="Design Image" /></td>
</tr>
</tbody>
</table>

- 12 x 178
- 4 x 60
- 8 x 160
Corner joint, variant I

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Diagram" /></td>
<td><img src="image2" alt="Design Diagram" /></td>
</tr>
<tr>
<td><img src="image3" alt="Sealing Diagram" /></td>
<td><img src="image4" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>
EXTERIOR WALL - EXTERIOR WALL

Corner joint, variant II

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Sealing Diagram" /></td>
<td><img src="image" alt="Design Diagram" /></td>
</tr>
<tr>
<td>8 x 200</td>
<td>8 x 200</td>
</tr>
</tbody>
</table>
## WALL - WALL

**Joint, variant I**

![Diagram of Wall Joint]

### SEALING

<table>
<thead>
<tr>
<th>SEALING</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Sealing Diagram]</td>
</tr>
</tbody>
</table>

### DESIGN

<table>
<thead>
<tr>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Design Diagram]</td>
</tr>
</tbody>
</table>

*6 x 80*
WALL - WALL

Joint, variant II

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Sealing" /></td>
<td><img src="image2.png" alt="Design" /></td>
</tr>
</tbody>
</table>

6 x 80
WALL - WALL

Joint, variant III

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Sealing Image]</td>
<td>![Design Image]</td>
</tr>
</tbody>
</table>

6 x 80
WALL - WALL

Joint, variant IV

6 x 80

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Sealing Diagram" /></td>
<td><img src="image2.png" alt="Design Diagram" /></td>
</tr>
<tr>
<td>6 x 80</td>
<td>6 x 80</td>
</tr>
</tbody>
</table>
## EXTERIOR WALL - INTERIOR WALL

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Image" /></td>
<td><img src="image2" alt="Design Image" /></td>
</tr>
</tbody>
</table>

**Sealing Details:**
- 20° angle
- Dimensions: 8 x 200

**Design Details:**
- Dimensions: 8 x 200
INTERIOR WALL - INTERIOR WALL

Corner joint

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Diagram" /></td>
<td><img src="image2" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

- **Sealing**
  - 20°
  - 8 x 200

- **Design**
  - 12 x 178
  - 8 x 200
Variant I

Increased requirements
Noise insulation

Normal requirements
Noise insulation

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased requirements Noise insulation</td>
<td>Normal requirements Noise insulation</td>
</tr>
<tr>
<td><img src="image1.png" alt="Sealing Design" /></td>
<td><img src="image2.png" alt="Design" /></td>
</tr>
<tr>
<td><img src="image3.png" alt="Material A" /></td>
<td><img src="image4.png" alt="Material B" /></td>
</tr>
<tr>
<td><img src="image5.png" alt="Material C" /></td>
<td><img src="image6.png" alt="Material D" /></td>
</tr>
<tr>
<td><img src="image7.png" alt="Material E" /></td>
<td><img src="image8.png" alt="Material F" /></td>
</tr>
</tbody>
</table>

![Material G](image9.png) | ![Material H](image10.png) | ![Material I](image11.png) |

10 x 240 6 x 80 4 x 60
EXTERIOR WALL - CEILING

Variant II

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased requirements Noise insulation</td>
<td>Normal requirements Noise insulation</td>
</tr>
<tr>
<td><img src="image1" alt="Sealing Diagram" /></td>
<td><img src="image2" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

- 10 x 240
- 8 x 200
EXTERIOR WALL - CEILING

Variant III

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased requirements</td>
<td>Normal requirements</td>
</tr>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>8 x 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased</td>
<td></td>
</tr>
<tr>
<td>Normal</td>
<td></td>
</tr>
</tbody>
</table>
### Interior Wall - Ceiling

#### Sealing Design

<table>
<thead>
<tr>
<th>Increased requirements</th>
<th>Normal requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sealing</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Sealing Diagram" /></td>
<td><img src="image2.png" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

- **Increased requirements**:
  - Noise insulation

- **Normal requirements**:
  - Noise insulation

- **Design details**:
  - 4 x 60
  - 10 x 240
  - 6 x 80

Binderholz Bausysteme GmbH
Variant I

### SEALING

- 6 x 80

### DESIGN

- 6 x 80
CEILING - CEILING | ROOF - ROOF

Variant II

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image 1]</td>
<td>![Image 2]</td>
</tr>
<tr>
<td>![Image 3]</td>
<td>![Image 4]</td>
</tr>
</tbody>
</table>

6 x 80

Adhesive
**EXTERNAL WALL - ROOF**

**SEALING**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>No requirements</td>
<td>No requirements</td>
</tr>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
</tr>
</tbody>
</table>

**DETAILS**

- 20°
- 10 x 240
RAFTER, SOLID TIMBER - BBS EXTERIOR WALL

Variant I
RAFTERS, SOLID TIMBER - BBS EXTERIOR WALL

Variant II

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Diagram" /></td>
<td><img src="image2" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

10 x 240
RAFTER, SOLID TIMBER - BBS EXTERIOR WALL

Variant III

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing design" /></td>
<td><img src="image2" alt="Design" /></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>No requirements Noise insulation</th>
<th>Normal requirements Noise insulation</th>
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<tbody>
<tr>
<td><img src="image3" alt="No requirements noise insulation" /></td>
<td><img src="image4" alt="Normal requirements noise insulation" /></td>
</tr>
</tbody>
</table>

- **Sealing**: No requirements
- **Design**:
  - 10 x 240
  - 10 x 360
## Ridge with Roof Beam

### Sealing

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>No requirements</td>
<td>No requirements</td>
</tr>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
</tr>
</tbody>
</table>

### Design

- **10 x 240**
RIDGE (WITHOUT ROOF BEAM) WITH TILED SLAB
### BBS ATTICA AS CASING - BBS FLAT ROOF

**Sealing Design**

<table>
<thead>
<tr>
<th>Increased requirements Noise insulation</th>
<th>Normal requirements Noise insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Seal" /></td>
<td><img src="image2" alt="Seal" /></td>
</tr>
</tbody>
</table>

- **Increased requirements**
  - Noise insulation

- **Normal requirements**
  - Noise insulation

- **Dimensions**
  - 10 x 240
  - 4 x 60
BEARERS BSH - BBS EXTERIOR WALL

Variant I

8 x 100
BEARERS BSH - BBS EXTERIOR WALL

Variant II

Steel dowel pin

8 x 100

8 x 200

10 x 240

10 x 360

Design

8 x 100

Steel dowel pin
Variant III

BEARERS BSH - BBS EXTERIOR WALL

DESIGN

8 x 100

Noise insulation
Normal requirements

10 x 240
8 x 200
8 x 100
10 x 360
10 x 260
**BEARERS BSH - BBS EXTERIOR WALL**

**Variant IV**

<table>
<thead>
<tr>
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<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Sealing Diagram" /></td>
<td><img src="image2.png" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

10 x 360
BEARERS BSH, CEILING LEVEL - BBS CEILING

8 x 200

DESIGN

8 x 200
STEEL BEARERS - BBS EXTERIOR WALL

Variant I

<table>
<thead>
<tr>
<th>SEALING</th>
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</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Sealing Diagram" /></td>
<td><img src="image2" alt="Design Diagram" /></td>
</tr>
</tbody>
</table>

- 8 x 100
STEEL BEARERS - BBS EXTERIOR WALL

Variant II

![Diagram of steel bearers and exterior wall design with dimensions 8 x 100 and 10 x 240]
STEEL BEARERS - BBS EXTERIOR WALL

Variant III

8 x 100
STEEL BEARERS, CEILING LEVEL - BBS CEILING

Variant I

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Increased requirements</th>
<th>Normal requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
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</tbody>
</table>

| 8 x 100 |

Binderholz Bausysteme GmbH
STEEL BEARERS, CEILING LEVEL - BBS CEILING

Variant II

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Increased requirements</td>
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<td>Noise insulation</td>
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<tr>
<td><img src="image1.png" alt="Sealing design" /></td>
<td><img src="image2.png" alt="Design illustration" /></td>
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</table>

| 8 x 100 |
STEEL SUPPORT AS BEARERS - BBS CEILING

8 x 160

DESIGN

8 x 160
BBS CEILING BUTTED - BBS INTERIOR WALL

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="10x240" alt="Sealing Image" /></td>
<td><img src="20%C2%B0" alt="Design Image" /></td>
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<table>
<thead>
<tr>
<th>Increased requirements</th>
<th>Normal requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
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</tbody>
</table>

10 x 240
BBS CEILING - TIMBER FRAME WALL (EXTERIOR WALL)

### SEALING

<table>
<thead>
<tr>
<th>Increased requirements</th>
<th>Normal requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
</tr>
</tbody>
</table>

### DESIGN

- **10 x 240**
- **4 x 60**
# BBS CEILING - TIMBER FRAME WALL (INTERIOR WALL)

![Diagram of BBS Ceiling - Timber Frame Wall](image)

## SEALING

<table>
<thead>
<tr>
<th>Increased requirements Noise insulation</th>
<th>Normal requirements Noise insulation</th>
</tr>
</thead>
</table>

| 10 x 240 | 4 x 60 |

## DESIGN
BBS WALL - TIMBER FRAME WALL

SEALING

DESIGN

10 x 240
**SYSTEM CONNECTOR - CORNER JOINT**

<table>
<thead>
<tr>
<th>SEALING</th>
<th>DESIGN</th>
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</thead>
<tbody>
<tr>
<td><img src="image" alt="Sealing.png" /></td>
<td><img src="image" alt="Design.png" /></td>
</tr>
</tbody>
</table>

**Dimensions:**
- **10 x 240**
- **8 x 200**
- **8 x 100**
- **10 x 360**
- **10 x 260**
BBS WALL - INSERTED LINTEL

8 x 200

SEALING DESIGN

No requirements

Noise insulation

Normal requirements

Noise insulation
BBS WALL PANEL

8 x100

DESIGN

8 x 100
TRIMMER JOISTS IN WELL OF STAIRCASE

Variant I

**Design**

6 x 80

10 x 240
TRIMMER JOISTS IN WELL OF STAIRCASE

Variant II

DESIGN

6 x 80

10 x 240

10 x 240
TRIMMER WITHOUT JOISTS IN WELL OF STAIRCASE

Variant III
TRIMMER JOISTS IN WELL OF STAIRCASE

Variant IV
TRIMMER JOISTS IN WELL OF STAIRCASE

Variant V
BBS CEILING - BRICKWORK WALL I CONCRETE WALL

Variant I

<table>
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<tr>
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<tbody>
<tr>
<td><img src="image1.png" alt="Sealing Design" /></td>
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<tbody>
<tr>
<td>Noise insulation</td>
<td>Noise insulation</td>
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</table>

16 x 220
BBS CEILING - BRICKWORK WALL I CONCRETE WALL

Variant II

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>![Sealing Diagram]</td>
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<td>Noise insulation</td>
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</tbody>
</table>

16 x 220
BBS CEILING - CONCRETE WALL

Variant I

<table>
<thead>
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<td>Noise insulation</td>
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</tr>
<tr>
<td><img src="image1" alt="Diagram of increased noise insulation" /></td>
<td><img src="image2" alt="Diagram of normal noise insulation" /></td>
</tr>
</tbody>
</table>

- **10 x 240**
- **16 x 220**
BBS CEILING - CONCRETE WALL

Variant II

<table>
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10 x 240
16 x 220
BBS WALL - CONCRETE WALL

<table>
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</table>

- 6 x 80
- 12 x 178

Binderholz Bausysteme GmbH
NOTE I CONTACT

General note
This information is addressed exclusively to professionals with the corresponding knowledge and expertise (in timber construction, construction engineering), who are capable of processing the material and planning its use correctly and are authorized and empowered to do so.

The information provided in this brochure aims at deepening understanding when handling binderholz CLT BBS. Applicable statutory provisions, standards as well as the state of the art must be taken into account at all times. The information does not contain any positive statements nor concrete recommendations for or about specific building projects. Any liability or warranty of binderholz Bausysteme GmbH based on this brochure or information contained therein is thus excluded.

The information given here does not replace specific product advice.

Want to find out more?
You can contact us personally at: +43 6245 70500 or by e-mail to: bbs@binderholz.com.
On request, we will gladly send you more detailed informational material.