CEILINGS ON METAL/WOOD FRAME

SECTIONS:

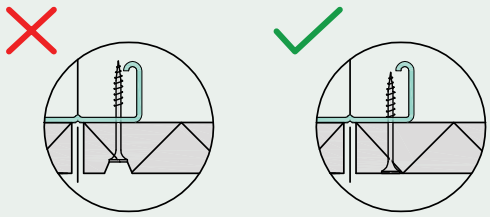
1. SCREWING INSTRUCTIONS

The frame assembly element step must be 600 mm or less, which has to correspond to the width of the CEWOOD Panels. Start mounting the panels from the middle of the room, gradually moving to the edges. Screw fastening step must be less than 600 mm. The distance from the edge of the panel to the the screw must not exceed 25 mm. A standard 1200x600 mm panel requires 6 screws, a 600x600 mm panel requires 4 screws.

Special CEWOOD screws with a larger head are recommended for fastening the panels.

Self-drilling for metal constructions or wood screws for wooden constructions are recomended, if CEWOOD screws are not used. The screw head should be with head diameter D≥9 mm.

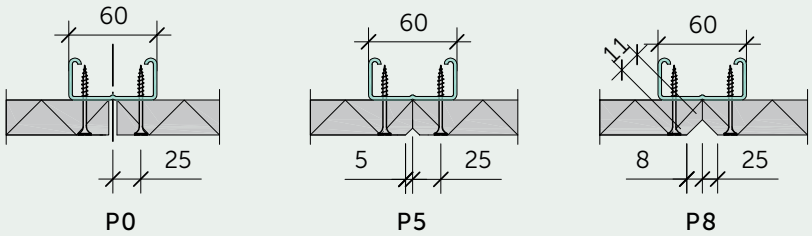
(!) Do not submerge the screws into the CEWOOD Panels! The head of the screw must be left the same level as the visible surface of the board.



Minimal screw dimensions depending on frame structure and panel thickness

Minimal screw dimensions		
Frame structure/CEWOOD Panel thickness	**25 mm**	**35 mm**
CD metal profile frame – self-drilling screws	4.5x45 mm	4.5x50 mm
Wooden lath frame – wood screws	4.5x50 mm	4.5x60 mm

CEWOOD Panel edge profile types



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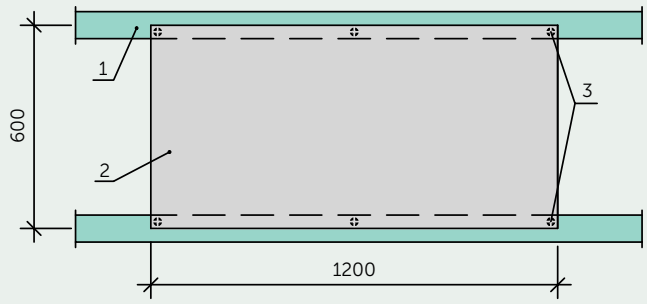
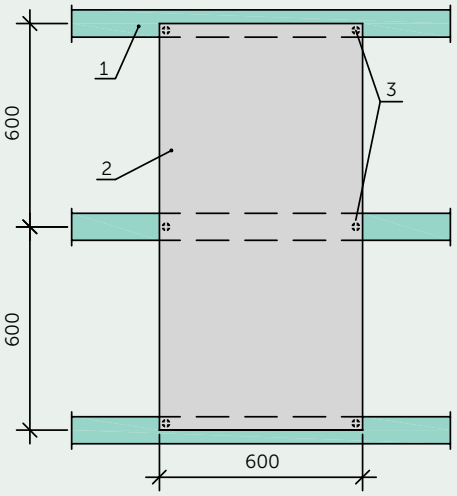
SCREWING INSTRUCTIONS

Standard screw pattern for CEWOOD Panels

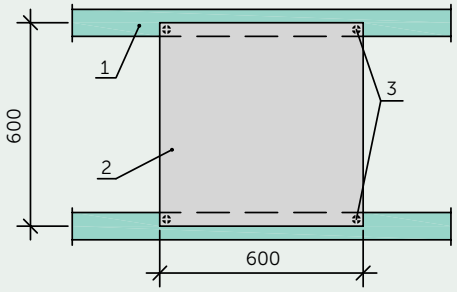
Fastening of 25 mm and 35 mm thick CEWOOD Panels with screws onto metal CD assembly profiles or wooden assembly laths.



Panel 1200x600 mm fastened with 6 screws longitudinally



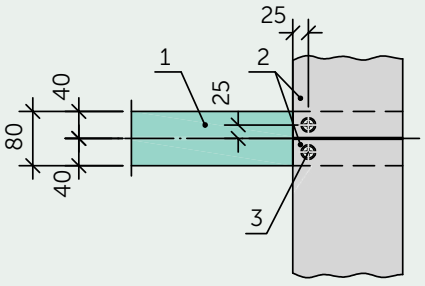
Panel 1200x600 mm fastened with 6 screws

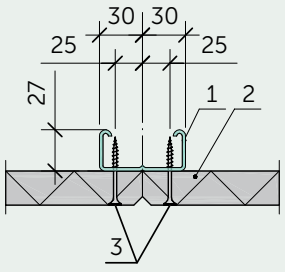


Panel 600x600 mm with 4 screws

Screw locations

The connection seam between panels must always be formed under the frame assembly element.





Explanation of numbering

1. Frame assembly element (CD profile or wooden lath)
2. CEWOOD Panels
3. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head Ø ≥ 9 mm

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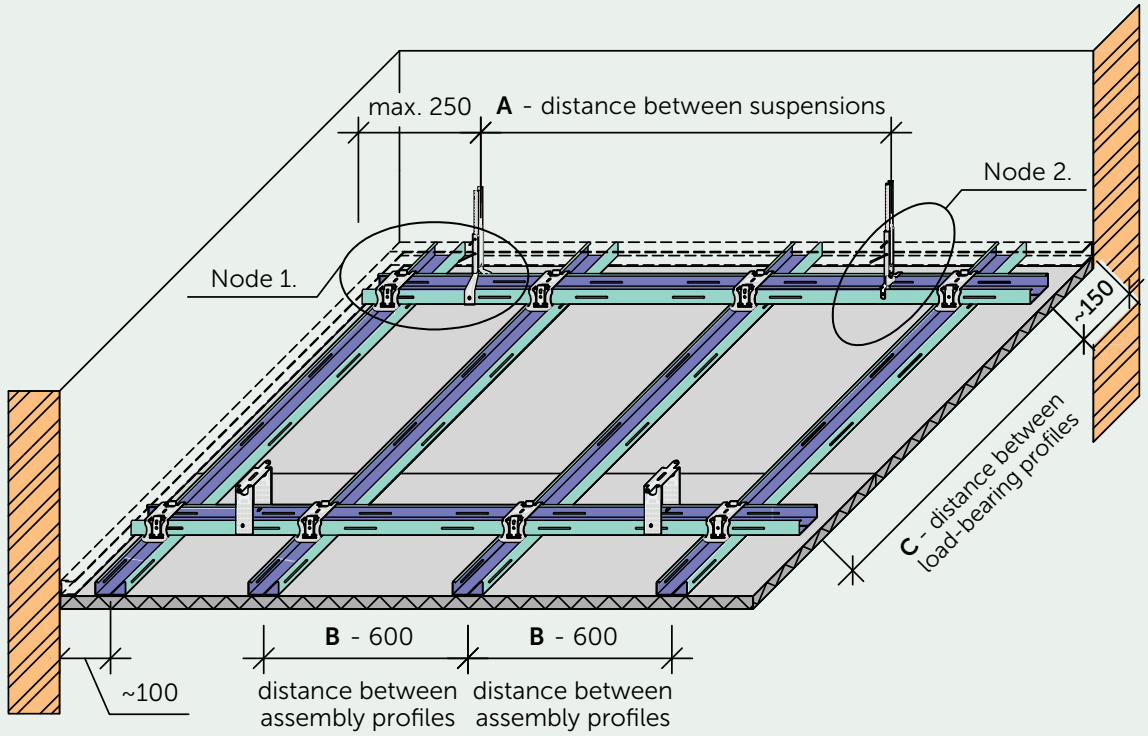
2. SUSPENDED CEILINGS ON CD PROFILE FRAME

The frame is made of perpendicularly arranged CD type metal profiles 60/27/0,6 mm. CD profile placement, fastening onto load-bearing structures and connections between elements are implemented according to CD type profile manufacturer guidelines. Placements of suspension elements and frame bearing capacities are stated in the table below.



Maximum mounting distances of frame elements

Load-bearing profile CD 60/27/0,6 mm	Assembly profile CD 60/27/0,6 mm	**A** - distances between suspension elements/fastenings			Double ceilings
		Load class kN/m²			
Distance **C** - mm	Distance **B** - mm	Up to 0,15	Up to 0,30	Up to 0,50	Up to 0,65
600	600	1150	900	750	700
900	600	1000	800		
1000	600	950	750		
1200	600	900			
Must use suspensions with load-bearing capacity ≥ 0.40 kN					

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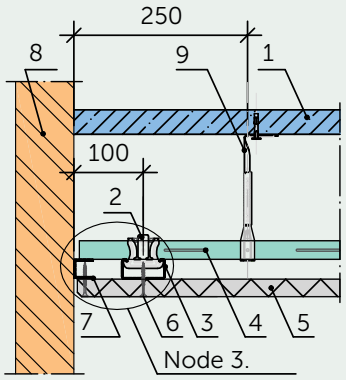
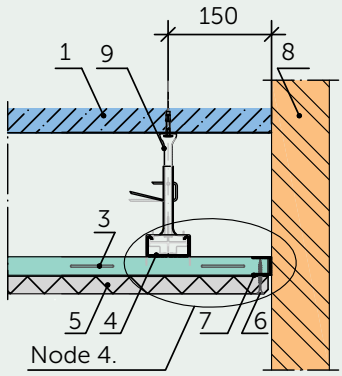
SUSPENDED CEILINGS ON CD PROFILE FRAME

CD profile frame perimeter fastening sections and explanation

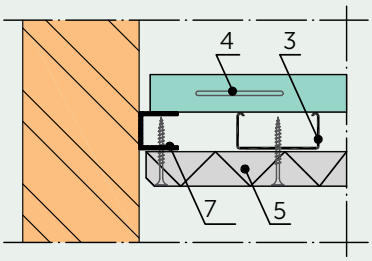
Node 1.
Joint between short edges



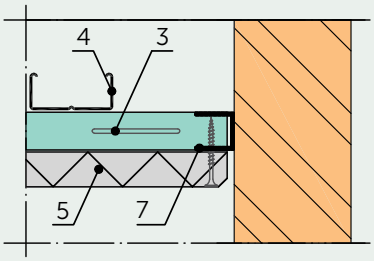
Node 2.
Joint between longitudinal edges



Node 3.



Node 4.



**In drawings used nonius suspension with bearing capacity 0,40 kN*

Explanation of numbering

1. Load-bearing structure
2. Cross connector for CD profile
3. CD assembly profile 60x27x0,6 mm
4. CD load-bearing profile 60x27x0,6 mm
5. CEWOOD Panels
6. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head Ø ≥ 9 mm
7. UD perimeter profile 28x27
8. Existing wall structure
9. Nonius suspension with bearing capacity 0,40 kN

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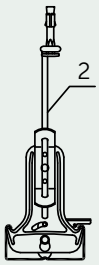
SUSPENDED CEILINGS ON CD PROFILE FRAME

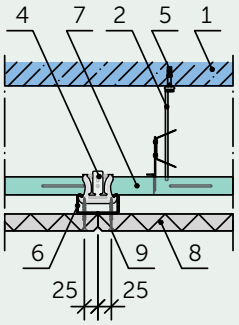
Fastening types of CD profiles on to load-bearing structure

Assembly profile is attached to a load-bearing profile using corss conector for CD profiles. A CD profile frame is fastened onto load-bearing sturcture using quick suspension, U-type clamp or nonius type fastening. See detailed explanations below.

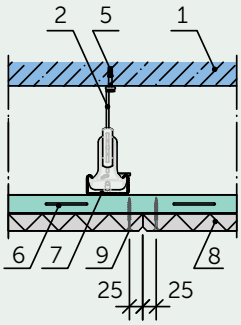
Quick suspension with anchor fastening element

Load-bearing capacity 0,15 kN





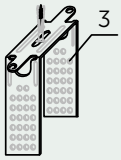
Joint between longitudinal edges

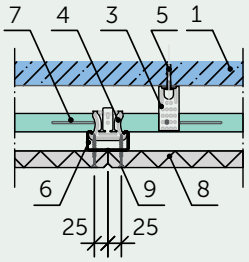


Joint between short edges

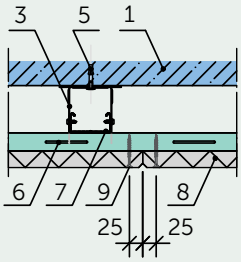
U-type clamp for direct fastening

Load-bearing capacity 0,4 kN





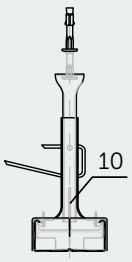
Joint between longitudinal edges

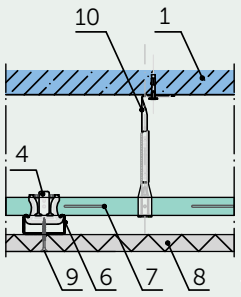


Joint between short edges

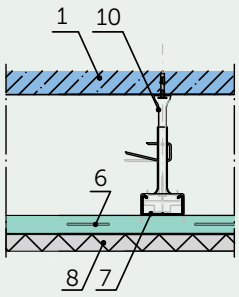
Nonius type suspension with adjustable height

Load-bearing capacity 0,4 kN





Joint between longitudinal edges



Joint between short edges

Explanation of numbering

1. Load-bearing structure
2. Anchor Fix Quick Hanger
3. U-type clamp
4. Cross connector for CD profile
5. Conical anchor ≥ M6
6. CD assembly profile 60x27x0,6 mm
7. CD load-bearing profile 60x27x0,6 mm
8. CEWOOD Panels
9. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head O ≥ 9 mm
10. Nonius suspension with bearing capacity 0,40 kN

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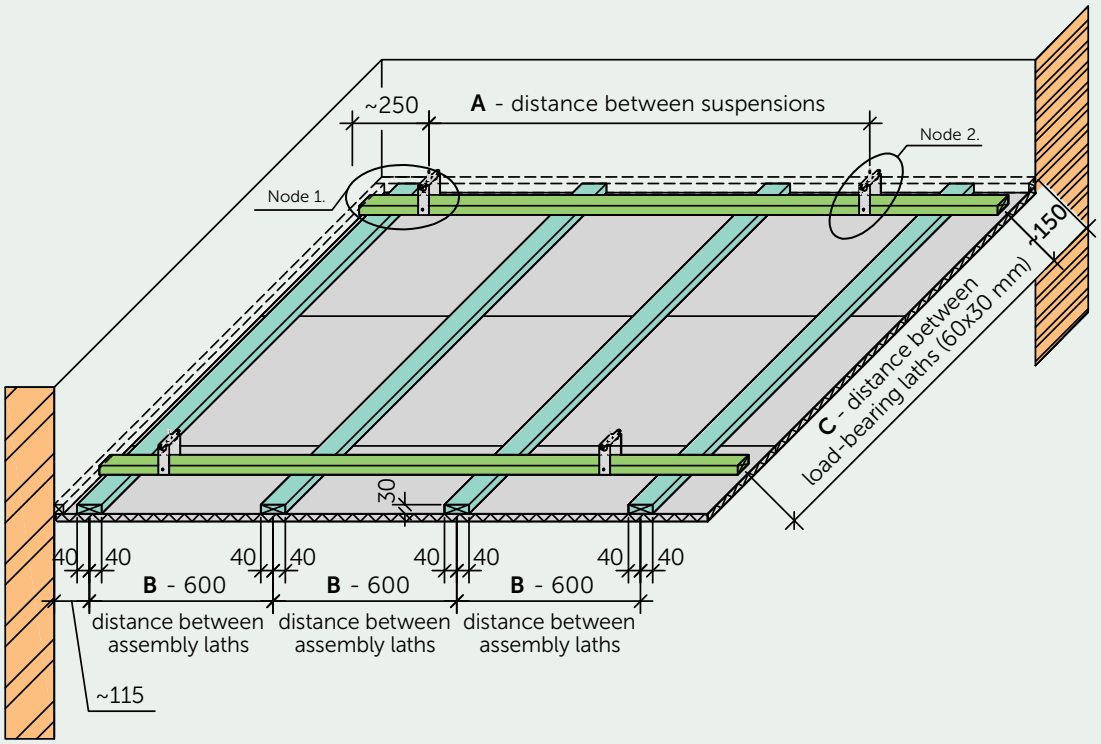
3. SUSPENDED CEILINGS ON WOODEN LATHS

The frame is made of perpendicularly arranged wooden laths. Placements of suspension elements and frame-bearing capacities are stated in the table below.



Maximum mounting distances of frame elements

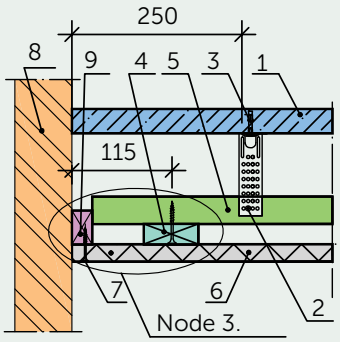
Load-bearing lath, min. cross section 60/30 mm	Assembly lath, min. cross section 80/30 mm	A - distance between suspension elements/fastenings Load class kN/m²		
Distance **C** - mm	Distance **B** - mm	up to 0.15	up to 0.30	up to 0.50
600	600	1150	900	750
900	600	1000	800	
1000	600	950		
1200	600	900		
Must use suspensions with load resistance of 0.40 kN Assume minimal load-bearing lath cross section of 60x30 mm				

SUSPENDED CEILINGS ON WOODEN LATHS

Wooden lath frame fastening sections and explanation

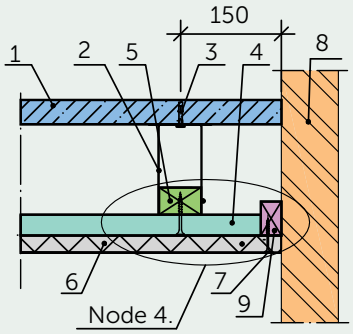
Node 1.

Joint between short edges

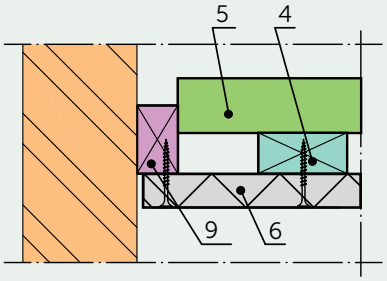


Node 2.

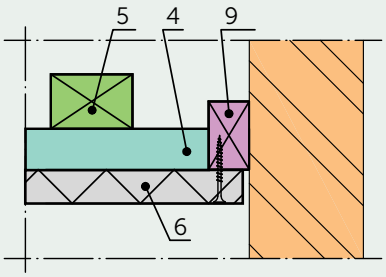
Joint between longitudinal edges



Node 3.



Node 4.



**The drawings show U-type clamp suspension with bearing capacity 0,40 kN*

Explanation of numbering

1. Load-bearing structure
2. U-type clamp
3. Conical anchor ≥ M6
4. Assembly lath min. 80x30(h) mm
5. Load-bearing lath min 60x30(h) mm
6. CEWOOD Panels
7. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head Ø ≥ 9 mm
8. Existing wall structure
9. Perimeter wooden lath 30x50(h) mm

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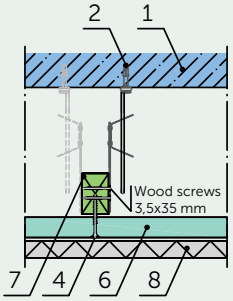
SUSPENDED CEILINGS ON WOODEN LATHS

Fastening types of wooden laths onto a load-bearing structure

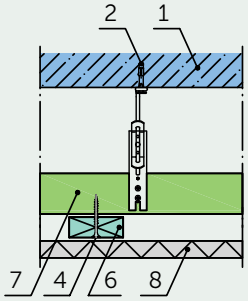
Assembly laths are attached to a load-bearing laths using wood screws. A wooden lath frame is fastened on to load-bearing sturcture using quick suspension, U-type clamp or with anchors directly to load-bearing structure. Detalized explanations see below.

Quick suspension with anchor fastening element

Load-bearing capacity 0,15 kN



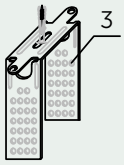
Joint between longitudinal edges (alternating fastening)

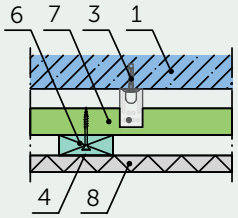


Joint between short edges, load-bearing lath min. 60x30(h) mm

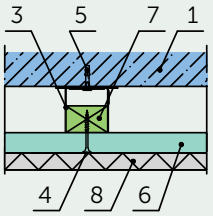
U-type clamp for direct fastening

Load-bearing capacity 0,4 kN





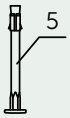
Joint between longitudinal edges

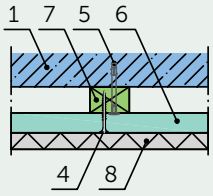


Joint between short edges

Double-layer frame direct fastening with anchor

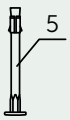
Anchor type must be applied onto a load-bearing structure type

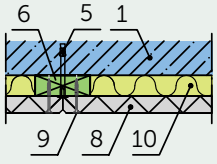




Single-layer frame direct fastening with anchor

ⓘ Assebly laths are fixed directly onto a load-bearning structure
Fastening type usable if ceiling leveling is not required





Explanation of numbering

1. Load-bearing slab or foundation structure
2. Adjustable ceiling hanger
3. U-type clamp
4. Wood screw min. 4x45 mm
5. Suspension anchor
6. Assembly lath min. 80x30(h) mm
7. Load-bearing lath min. 60x30(h) mm
8. CEWOOD Panels
9. CEWOOD screws 4,65x45 mm or galvanized woodscrews with head O ≥ 9 mm
10. Mineral wool

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