

E2 PARTITION

TECHNICAL DATA SHEET

Description

- self-supporting double partition for non-load bearing purposes

Composition thickness 120 mm

- 2 E60 Ekopanely board layers

Recommended use

- partitions, without technical distributions and installations
- partitions dividing any room in a building (corridor, kitchen, living room, bathroom, bedroom, cloakroom,...)



Restrictions

- max. partition height 3200 mm for standard applications
- 2 E60 layers
- ordering of the Ekopanely board height according to the size of the custom-made partition (1200-3200 mm)

Technical information and parameters

DESCRIPTION	VALUE	UNIT	LEGAL REGULATION
2x E60 Ekopanely board dimensions: thickness	58 (tolerance + 2 mm)	mm	
width	1200, 800	mm	
length	1200 - 3200	mm	
air soundproofness	39	dB	ČSN EN ISO 717-1
fire response category	E		EN 13501-1

Note

- delivery methods and storage conditions are provided in the technical data sheet of the product

Installation procedure

- cutting (circular saw, jig saw) → edge bonding
- laying of Ekopanely boards in one row - observing the regular alternation of the top layer (↓ TOP ↓) and the back of the Ekopanely boards
- cutting of the groove for wiring (circular saw at an angle of 45 °) permissible only parallel to the length of the Ekopanely board
- cutting of holes for wiring (bore drill diameter 68 mm - KP 64 LD or diameter 73 mm - KU 68 LD, KPRL 68-70 LD)
- hanging of objects → screwing in of screws without pre-drilling and plastic wall plugs

1. VARIANT – UNI WALL CLAMP

- placing and anchoring of the 1st series of partitions with UNI wall clamps:
 - mark out the position of the partition on the floor, the ceiling and the existing walls
 - placing on a concrete substrate:
 - Screw down the foundation plate 120/40 mm using:
 - wall plugs diameter of 10 mm x 600 mm and EP 6x100 mm wood screws
 - 10x100 mechanical anchors mm x 600 mm
 - 10 mm diameter threaded rods and chemical anchors x 600 mm
 - 6x100 mm turbo screws x 600 mm
 - laying on a wood-based substrate (OSB, DTD, boards, ...):
 - Screw down the foundation plate 120/40 mm using:
 - EP 5x60 mm wood crews x 600 mm
 - screw UNI wall clamps into the foundation plate and ceiling using EP 4x50 mm wood screws x 400 mm
 - apply compression insulating tape or low expansion installation foam onto the foundation plate, the ceiling and the existing partition wall always for the installed board
 - insert the Ekopanely board into the prepared place
 - screw the board to the clamps with EP 4x50 mm UNI wall screws
- joining boards of the 1st row with UNI wall clamps:
 - screw the UNI wall clamps on the vertical free edge of the fixed Ekopanely board along its entire length using EP 4x50 mm wood screws x 500 mm, the first clamp x 250 mm from the floor and the ceiling (on the ceiling and on the foundation plate, the clamps are already anchored over the entire length of the partition)
 - apply compression insulating tape or low expansion installation foam to the entire free edge of the anchored Ekopanely board, on the foundation board and the ceiling
 - place the second Ekopanely board snug on the joint so that the requirement of the regular alternation of the top (↓ TOP ↓) and the back side of the boards is adhered to
 - screw the UNI wall clamps using EP 4x50 mm screws into the second Ekopanely board

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- any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
- repeat the assembly procedure systematically up to the other end of the partition where the last panel is width-adjusted as needed
- anchoring and fastening of the 2nd row of the E2 partitions using EP 5x100 mm wood screws:
 - prepare the width of the first Ekopanely board by about one-third to one-half less than the opposite Ekopanely board in the first row
 - apply compression insulating tape or low-expansion installation foam to the foundation plate, the ceiling and the existing wall for the 2nd row of Ekopanely boards
 - insert the cropped Ekopanely board into the prepared place
 - screw the Ekopanely board flatly in to the 1st row of E2 partitions using EP 5x 100 mm (without a washer, without pre-drilling and a plastic wall plug) at a total density of 9 screws / 1 m²
 - screw the board to the foundation plate and the ceiling using EP 5x100 mm wood screws diagonally x 400 mm without washers. Then to the existing wall using EP 5x100 mm wood screws diagonally x 500 mm, first joint 250 mm from the floor and the ceiling
 - apply compression insulating tape or low-expansion installation foam to the free edge of the fixed Ekopanely board, on the foundation plate and the ceiling
 - place the second Ekopanely board on the joint in order to comply with the requirement of regular alternation of the top (↓ TOP ↓) and the back side of the boards
 - screw the Ekopanely board flatly to the 1st row of E2 partitions using EP 5x100 mm (without a washer, without pre-drilling and a plastic wall plug) at a total density of 9 screws / 1 m²
 - screw the board to the foundation plate and the ceiling using EP 5x100 mm wood screws diagonally x 400 mm without washers.
 - any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
 - repeat the assembly procedure systematically up to the other end of the partition where the last panel is width-adjusted as needed

2. VARIANT – SCREWS 5x100 mm

- placing, anchoring and fastening of the 1st row of the E2 partitions using screws EP 5x100 mm:
 - mark out the position of the partition on the floor, the ceiling and the existing walls
 - placing on a concrete substrate:
 - Screw down the foundation plate 120/40 mm using:
 - metal wall plugs diameter of 10 mm x 600 mm and EP 6x100 mm wood screws

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- 10x100 mm mechanical anchors x 600 mm
- 10 mm diameter threaded rods and chemical anchors x 600 mm
- 6x100 mm turbo screws x 600 mm

→ placing on a wood-based substrate (OSB, DTD, boards, ...):

- Screw down the foundation plate 120/40 mm using:
 - EP 5x60 mm wood crews x 600 mm

→ apply compression insulating tape or low-expansion installation foam to the foundation plate, the ceiling and the existing wall for partitions always for the installed board

→ insert the Ekopanely board into the prepared place

→ screw the board to the foundation plate and ceiling using a pair of EP 5x100 mm screws in a cross-shaped pattern x 400 mm without washers. Then to the existing wall using a pair of EP 5x100 mm wood screws in a cross-shaped patterns x 500 mm, first cross joint x 250 mm from floor and ceiling

→ apply compression insulating tape or low-expansion installation foam to the free edge of the fixed Ekopanely board, on the foundation plate and the ceiling

→ place the second Ekopanely board on the joint in order to comply with the requirement of regular alternation of the top (↓ TOP ↓) and the back side of the boards

→ screw the board to the foundation plate and ceiling using a pair of EP 5x100 mm wood screws in a cross-shaped pattern x 400 mm without washers

→ screw the board joints over the entire length using pairs of EP 5x100 mm wood screws in a cross-shaped pattern x 500 mm, first cross-shaped joint 250 mm from the floor and ceiling (without washers, without pre-drilling and plastic wall plugs)

→ any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam

→ repeat the assembly procedure systematically up to the other end of the partition where the last Ekopanely board is width-adjusted as needed

- anchoring and fastening of the 2nd row of the E2 partitions using EP wood screws 5x100mm mm:

→ prepare the width of the first Ekopanely board by about one-third to one-half less than the opposite Ekopanely board in the first row

→ apply compression insulating tape or low-expansion installation foam to the foundation plate, the ceiling and the existing wall for the 2nd row of Ekopanely boards

→ insert the cropped Ekopanely board into the prepared place

→ screw the Ekopanely board flatly to the 1st row of E2 partitions using EP 5x100 mm wood screws (without washers, without pre-drilling and plastic wall plugs) at a total density of 9 screws / 1 m²

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- screw the board to the foundation plate and the ceiling using EP 5x100 mm wood screws diagonally x 400 mm without washers. Then to the existing wall using EP 5x100 mm wood screws diagonally x 500 mm, first joint 250 mm from the floor and the ceiling
- apply compression insulating tape or low-expansion installation foam to the free edge of the fixed Ekopanely board, on the foundation plate and the ceiling
- place the second Ekopanely board on the joint in order to comply with the requirement of regular alternation of the top (↓ TOP ↓) and the back side of the boards
- screw the Ekopanely board flatly to the 1st row of E2 partitions using EP 5x100 mm wood screws (without washers, without pre-drilling and plastic wall plugs) at a total density of 9 screws / 1 m²
- screw the board to the foundation plate and the ceiling using EP 5x100 mm wood screws diagonally x 400 mm without washers
- any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
- Repeat the assembly procedure systematically up to the other end of the partition where the last panel is width-adjusted as needed

Installation tools

- hand-held circular saw
- jig saw
- drill
- hole saw (jig-borer)
- cordless drill/driver
- pistols for PUR foam
- hook for carrying Ekopanely boards

Consumption and a description of fasteners

Partition E2 10 m²		
MATERIAL DESCRIPTION	1. VARIANT (amount)	2. VARIANT (amount)
Foundation plate: 120/40 mm	4 LM	4 LM
Anchoring of the foundation plate	7 pcs	7 pcs
UNI wall clamp	45 pcs	0 pcs
Screw EP 4x50 mm	270 pcs	0 pcs
Screw EP 5x100 mm	125 pcs	230 pcs
E60 Ekopanely	20 m ²	
Self-adhesive tape SP 100	1 pc/25 m ² according to the number of cuts	
Mounting foam 750 ml	yield 1 pc / 10 m ²	

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