

E2 A PARTITION

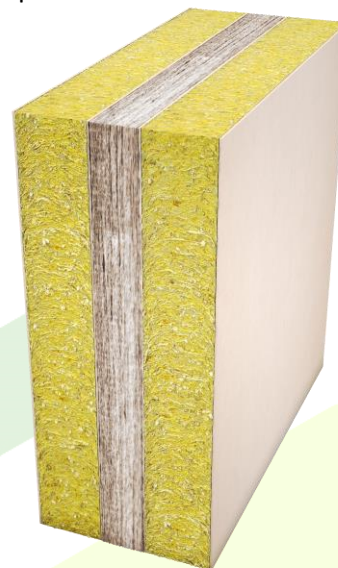
TECHNICAL DATA SHEET

Description

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

Composition thickness 120 + X mm (X ... according to the acoustic insulation selected)

- E60 Ekopanely board
- wooden grating + acoustic insulation thickness X mm
- E60 Ekopanely board



Recommended use

- partitions, with a higher soundproofing requirement (bedroom, bathroom, children's room, ...)
- partitions in which electrical wiring and other technical wiring can be conducted in the installation gap

Restrictions

- max. partition height 3200 mm for standard applications
- 2 E60 layers including a wooden grating and acoustic insulation
- selection of X mm according to the acoustic requirement and the type of installation conducted
- 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	43 (X = 60 mm)	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

EKOPANELY SERVIS s.r.o.
Jedousov 64
535 01 Přelouč - CZ

tel: +420 466 972 421
www.ekopanely.com
e-mail: info@ekopanely.com



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
- installation wiring in the installation gap - in the insulation space
- 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 at a min. of 120/40 mm or 120+X/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 at a min. of 120/40 mm or 120+X/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

E2 A PARTITION

TECHNICAL DATA SHEET

- screw the UNI wall clamps using EP 4x50 mm screws into the second Ekopanely board
- 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 of the wooden grating and the insertion of acoustic insulation at a thickness of X mm:
 - place the wooden grating horizontally in the raster the same as with the wall clamp (250 mm from the floor and ceiling, keep a spacing of 500 mm between gratings)
 - screw the horizontal wooden grating onto the 1st row of Ekopanely boards so that the wood screw is anchored to at least 2/3 of the Ekopanely thickness - EP 5x40 woodscrews + X mm x 400 mm
 - at the site of the subsequent anchoring of "heavier objects (hanging sink, kitchen unit, ...)", it is possible to reinforce the wall in this installation grating by means of doubling the battens or replacement with a board
 - insert acoustic insulation at a thickness of X mm between the wooden gratings
- anchoring and fastening of the 2nd row of the E2 A 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 (wooden grating) 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 A partitions over the wooden grating using EP 5x 100 mm wood screws with washers in 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 A partitions over the wooden grating using EP 5x100 mm wood screws with washers 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

E2 A PARTITION

TECHNICAL DATA SHEET

- 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 A 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 at a min. of 120/40 mm or 120+X/40 mm using:
 - metal wall plugs diameter of 10 mm x 600 mm and EP 6x100 mm wood screws
 - 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 at a min. of 120/40 mm or 120+X/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)

E2 A PARTITION

TECHNICAL DATA SHEET

- 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 of the wooden grating and the insertion of acoustic insulation at a thickness of X mm:
 - place the wooden grating horizontally in the raster the same as with the wall clamp (250 mm from the floor and ceiling, keep a spacing of 500 mm between gratings)
 - screw the horizontal wooden grating onto the 1st row of Ekopanely boards so that the wood screw is anchored to at least 2/3 of the Ekopanely thickness - EP 5x40 woodscrews + X mm x 400 mm
 - insert acoustic insulation at a thickness of X mm between the wooden gratings
- anchoring and fastening of the 2nd row of the E2 A 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 (wooden grating) 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 A partitions over the wooden grating using EP 5x100 mm wood screws with washers 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 A partitions through the wooden grating using EP wood screws with washers in 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

EKOPANELY SERVIS s.r.o.
Jedousov 64
535 01 Přelouč - CZ

tel: +420 466 972 421
www.ekopanely.com
e-mail: info@ekopanely.com



E2 A PARTITION

TECHNICAL DATA SHEET

- 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 A 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
Acoustic insulation thickness X mm	9 m ²	9 m ²
UNI wall clamp	45 pcs	0 pcs
Screw EP 4x50 mm	270 pcs	0 pcs
Wooden grating thickness X mm	18 LM	18 LM
Screw EP 5x40 + X mm	45 pcs	45 pcs
Screw EP 5x100 mm	125 pcs	230 pcs
Washer EP-P1	90 pcs	90 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	