

E2 N PARTITION

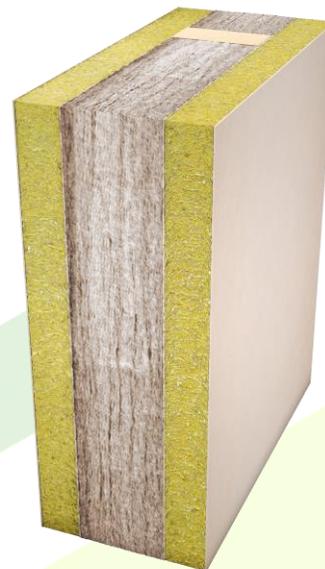
TECHNICAL DATA SHEET

Description

- internal cladding of a load bearing wooden frame structure

Composition thickness 240 mm

- E60 Ekopanely board
- KVH prisms + acoustic insulation thickness 120 mm
- E60 Ekopanely board



Recommended use

- partitions for load-bearing purposes and building reinforcement
- partitions including technical distributions and installations
- partitions dividing any room in a building (corridor, kitchen, living room, bathroom, bedroom, ...)

Restrictions

- max. partition height according to the design of the load-bearing structure
- the gap between the Ekopanely boards is always supported by a wooden structure to provide fire resistance to the load-bearing wall
- Ekopanely boards are not intended to be used as structural boards, longitudinal wall bracing is created in other ways e.g. in a wooden structure using diagonal elements according to the static assessment
- 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 width length	58 (tolerance + 2 mm) 1200, 800 1200 - 3200	mm mm mm	
fire resistance	REI 45 DP3		EN 13501-2, EN 1365-1
fire response category	E		EN 13501-1

Note

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

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Installation procedure

- cutting (circular saw, jig saw) → edge bonding
- laying of Ekopanely boards in one row - only the top side to the outer surface (↓ TOP ↓)
- installation wiring in the installation gap – in the space of the wooden structure
- 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

CLADDING OF INTERIOR E2 N LOAD BEARING WALLS

- placing and anchoring walls:
 - the positioning of the wall is predetermined by an anchored load-bearing frame structure containing diagonal wall bracing according to the static assessment regulation (axis spacing of the posts and their profile shall also be prescribed by a structural engineer that should assess each structure individually)
- cladding of the 1st layer
 - apply low expansion installation foam to the load bearing system at the place of laying the Ekopanely board
 - insert the Ekopanely board into the prepared place - the panel must be placed at least 20 mm from the bottom structure (foundation slab waterproofing, OSB tilt, ...).
 - place the Ekopanely board so that the facework requirement of board placement is adhered to (↓ TOP ↓)
 - screw the Ekopanely board flatly into the load-bearing structure of the partition using EP 5x100 mm screws with EP-P1 washers (without pre-drilling and plastic wall plugs) at a density of 9 screws / 1 m²
 - any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
 - apply low expansion foam / compression insulating tapes to the load bearing system at the place of laying the Ekopanely board and to the entire free edge of the anchored Ekopanely board
 - place the second Ekopanely board snug on the joint so that the facework requirement of board placement is adhered to (↓ TOP ↓)
 - screw the Ekopanely board flatly into the load-bearing structure of the partition using EP 5x100 mm screws with EP-P1 washers (without pre-drilling and plastic wall plugs) at a density of 9 screws / 1 m²
 - any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
 - underlay the created vertical joints between the individual Ekopanely boards along the whole length with an additional wooden structure - minimum board thickness of 20-

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30 mm and width 80 mm, if the Ekopanely board gap is not based on the load-bearing system of the frame structure (requirement for fire resistance of the load-bearing wall)
→ anchoring of the additional wooden structure of the underlaid joints to the Ekopanely using EP 5x80 screws x 500 mm with the first joint 250 mm from the floor and ceiling (without washers, without pre-drilling and plastic wall plugs)
→ repeat the assembly procedure systematically up to the other end of the partition where the last panel is width-adjusted as needed

- insertion of acoustic insulation at a thickness of 120 mm:
 - insert acoustic insulation at a thickness of 120 mm between the wooden load bearing structure (fire response category A1 - A2)
- cladding of the 2nd layer
 - apply low expansion foam to the load bearing system at the place of laying the Ekopanely board
 - insert the Ekopanely board into the prepared place - the panel must be placed at least 20 mm from the bottom structure (foundation slab waterproofing, OSB covering, ...), place the Ekopanely board so that the facework requirement of board placement is adhered to (↓ TOP ↓)
 - screw the Ekopanely board flatly into the load-bearing structure of the partition using EP 5x100 mm screws with EP-P1 washers (without pre-drilling and plastic wall plugs) at a density of 9 screws / 1 m²
 - any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
 - apply low expansion foam / compression insulating tapes to the load bearing system at the place of laying the Ekopanely board and to the entire free edge of the anchored Ekopanely board
 - place the second Ekopanely board snug on the joint so that the facework requirement of board placement is adhered to (↓ TOP ↓)
 - screw the Ekopanely board flatly into the load-bearing structure of the partition using EP 5x100 mm screws with EP-P1 washers (without pre-drilling and plastic wall plugs) at a density of 9 screws / 1 m²
 - any gaps can be sealed up by inserting compression insulating tape or low-expansion installation foam
 - underlay the created vertical joints between the individual Ekopanely boards along the whole length with an additional wooden structure - minimum board thickness of 20-30 mm and width 80 mm, if the Ekopanely board joint is not based on the load-bearing system of the frame structure (requirement for fire resistance of the load-bearing wall)
→ anchoring of the additional wooden structure of the underlaid joints to the Ekopanely using EP 5x80 screws x 500 mm with the first joint 250 mm from the floor and ceiling (without washers, without pre-drilling and plastic wall plugs)

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

- note:

→ application can be considered without PUR foam - it is necessary to consult with the building system supplier

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 N 10 m²	
MATERIAL DESCRIPTION	AMOUNT
Acoustic insulation thickness 120 mm	9 m ²
Screw EP 5x100 mm	180 pcs
Washer EP-P1	180 pcs
Ekopanely E60	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