

E40 W PARTITION

TECHNICAL DATA SHEET

Description

- partition from E40 Ekopanely board with a vertical wooden construction (W = wood)
- installation partition for non-load-bearing purposes

Composition thickness 80+X mm

- E40 Ekopanely boards
- wooden construction + acoustic insulation th. X mm
- E40 Ekopanely boards

Recommended use

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

Restrictions

- max. partition height 3200 mm for standard applications
- 2 E40 layers on wooden construction
- the gap between the Ekopanely boards is always supported by a wooden wall upright
- selection of X = 40/60 mm according to the selected wooden profile
- 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 E40/800 Ekopanely board dimensions: thickness	38 (tolerance +2 mm)	mm	
width	800	mm	
length	1200 - 3200	mm	
fire response category	E		EN 13501-1

Note

- the standard acoustic insulation in the wall is the natural thickness of 40 mm (min. 30 kg/m³)
- delivery methods and storage conditions are provided in the technical data sheet of the product
- the resulting flatness and possible bending of the partition is always dependent on the quality of the wooden grating

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Installation procedure

- cutting (circular saw, jig saw) → edge bonding
- laying of Ekopanely boards in one row – only the face side on the outer surface (↓TOP↓)
- electrical installation wiring in the horizontal and vertical direction in the installation gap
- the conduction of the sanitary installation (water supply, sewerage system) only in the vertical direction between individual wall uprights, in case of the need for the conduction of the installation in the vertical direction, it is necessary to increase the wooden construction thickness
- cutting out holes for the installation of electrical boxes (bore drill \varnothing 68 mm – KP 64 LD or \varnothing 73 mm – KU 68 LD, KPRL 68-70 LD)
- hanging of objects up to 30kg → screwing in of screws without pre-drilling and plastic wall plugs into the Ekopanely board
- hanging of heavier objects over 30 kg → reinforcement of wooden construction and anchoring of objects to this construction

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- assembly of wooden raster and anchoring of first row of E40 Ekopanely
 - mark out the position of the partition on the floor, the ceiling and the existing wall
 - foundation on concrete base:
 - screw the foundation board KVH 120/60 mm using:
 - Multi-monti 7.5x100 mm by 600 mm anchors
 - foundation on wooden base (OSB, chipboards, plates,...):
 - screw the foundation board KVH 120/60 mm using:
 - screws EP 5x100 mm by 600 mm
 - shorten the wooden profiles laid horizontally to the required length of the partition
 - anchor the lower wooden profile to the foundation slab using screws EP 5x100 by 500 mm and the upper wooden profile to the ceiling also using screws EP 5x100 mm by 500 mm. Anchor from the edge of the profile max. 150 mm. Pre-drill the wooden profiles with a 5 mm wood drill bit if necessary.
 - measure the height between the bottom and top wooden profiles and shorten the required amount of wooden columns (by 400 mm) to a size of 10 mm shorter than the measured height
 - gradually insert the shortened wooden columns between the lower and upper profiles so that they are pressed against the lower profile. Anchor the edge columns to adjacent constructions according to their type. The columns are fitted together with the first layer of Ekopanely casing. The Ekopanely board is anchored to the columns that end 10 mm from the top profile. To “temporarily fix” the partition, the Ekopanely board is anchored

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to the top chord using an EP 5x70 screw with a washer. This screw will be disassembled after mounting the second Ekopanely layer so that the upper profile fills the expansion sliding joint between the ceiling and the partition.

→ anchoring of the Ekopanely board to the columns is done using EP 5x70 screws with a washer in the amount of 9 pcs/m² (distance between single screws 400 mm). The screws are anchored both to the columns and to the bottom chord.

→ do not install the boards all the way up to the ceiling, leave 10 mm there, which will be permanently filled with a flexible sealant – serves for the possible dilatation of the partition

→ always place the boards on the face (↓TOP↓) side to the surface treatment

→ place longitudinal cuts of boards to the edges of the walls – follow the “connecting” of the original longitudinal edge

→ create the building openings by columns mounted in a sliding manner in the door lining and a firmly installed lintel of the same profile. The wooden columns are anchored by adjustable angle brackets and the lintel is fixed by an angle bracket to the lining column.

- Inserting acoustic insulation
 - between wooden profiles with a thickness of X mm, insert acoustic insulation plate with a thickness of X mm
- Anchoring and joining the second row of E40 Ekopanely boards
 - place the Ekopanely board on non-load-bearing wooden construction and anchor with EP 5x70 screws with a washer in the quantity 9 pcs/m² (distance between the individual screws 400 mm). The screws are anchored both to the columns and to the bottom chord.
 - do not install the boards all the way up to the ceiling, leave 10 mm here, which will be permanently filled with a flexible sealant – serves for the possible dilatation of the partition
 - always place the boards on the face (↓TOP↓) side to the surface treatment
 - place longitudinal cuts of boards to the edges of the walls – follow the “connecting” of the original longitudinal edge
 - after completing the second layer assembly, remove the screw with the washer in the first layer in the upper wooden profile section. The Ekopanely board should not be anchored to this profile.

Installation tools

- hand-held circular saw
- jig saw
- drill
- hole saw (jig-borer)
- cordless drill/driver

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Consumption and a description of fasteners anchored to concrete

Partition E40 W 10 m²	
MATERIAL DESCRIPTION	AMOUNT
Foundation plate KVH 120/60 mm	4 LM
Multi-monti 7.5x100 mm	7 pcs
Wooden vertical profile 40/60	11 pcs
Wooden horizontal profile 40/60	8 LM
Screw EP 5x70	180 pcs
Washer EP-P1	180 pcs
Screw EP 5x100mm	20 pcs
Acoustic insulation th. X mm	10 m ²
E40/800 Ekopanely boards	20 m ²
Self-adhesive tape SP 75	1 pcs/25 m ² according to the number of cuts

Note: Fasteners do not take construction openings and joints on adjacent structures into account

Consumption and a description of fasteners anchored to wood

Partition E40 W 10 m²	
MATERIAL DESCRIPTION	AMOUNT
Foundation plate KVH 120/60 mm	4 LM
Wooden vertical profile 40/60	11 pcs
Wooden horizontal profile 40/60	8 LM
Screw EP 5x70	180 pcs
Washer EP-P1	180 pcs
Screw EP 5x100mm	27 pcs
Acoustic insulation th. X mm	10 m ²
E40/800 Ekopanely boards	20 m ²
Self-adhesive tape SP 75	1 pcs/25 m ² according to the number of cuts

Note: Fasteners do not take construction openings and joints on adjacent structures into account

Version TL – 02/2023