

# E2 M PARTITION

TECHNICAL DATA SHEET

## Description

- partition from E40 Ekopanely board with a vertical metal construction (M = metal)
- Installation partition for non-load-bearing purposes

## Composition thickness 80 + X mm

- E40 Ekopanely board
- metal construction + acoustic insulation thickness X mm
- E40 Ekopanely board

## Recommended use

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

## Restrictions

- max. partition height 3200 mm for standard applications
- 2 E40 layers on metal construction
- the gap between the Ekopanely is always supported by a metal wall upright
- selection of X = 50/75/100 mm according to the selected metal 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 width length	38 (tolerance +2 mm) 800 1200 - 3200	mm mm mm	
air sound insulation	48 (X=50 mm) *	dB	ČSN EN ISO 717-1
fire resistance			EN 13501-2, EN 1364-1
fire response category	E		EN 13501-1

\*51 dB with surface treatment glue on both sides 4 kg/m<sup>2</sup>

\*55 dB with surface treatment of the SDK board 1x 12.5 mm on both sides (11 kg/m<sup>2</sup>)

\*57 dB with surface treatment of the SDK board 1x 12.5 mm and 2x 12,5 mm (11kg/m<sup>2</sup>)

## Note

- the standard acoustic insulation in the wall has a natural thickness of 50 mm (min. 30 kg/m<sup>3</sup>)
- 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 face side on the outer surface (↓TOP↓)
- electrical installation wiring in the horizontal and vertical direction in the installation gap
- the conduction of Health-Technical installation (water supply, sewerage system) only in the vertical direction between individual wall uprights, also in the structure of floors or ceiling. In case of the need for the conduction of the installation in the vertical direction, it is necessary to duplicate the metal construction
- cutting of holes for wiring (bore drill diameter 68 mm – KP 64/LD\_NA or diameter 73 mm – KUL 68-45/LD\_NA, KPRL 68-70/LD\_NA)
- hanging of objects up to 30kg → screwing in of screws without pre-drilling and plastic wall plugs into the Ekopanely
- hanging of heavier objects over 30 kg → reinforcement of Ua profiles including wood joints in a non-load-bearing construction

## E40 Metal PARTITION

- metal raster installation
  - mark out the position of the partition on the floor, the ceiling and the existing walls
  - placing on a concrete substrate:
    - Screw down the KVH 120/60 mm foundation plate using:
      - Multi-monti anchor 7.5x100 mm x 600 mm
    - based on a wood-based substrate (OSB, DTD, plates, ...):
      - Screw down the KVH foundation plate at 120/60 mm using:
        - EP 5x100 mm wood crews x 600 mm
    - shorten the Uw metal profiles laid horizontally to the required length of the partition, apply compressing acoustic tape on the shortened profiles
    - anchor the lower Uw profile to the foundation plate using 6x50 and 500 mm screws and the upper Uw profile to the ceiling using 6x50 mm and 500 mm screws. Anchor from the edge of the profile max. 250 mm
    - measure the height from the inside of the lower foundation Uw profile to the inside of the Uw profile in the ceiling and cut the required amount of Cw columns (400 mm) to a 10 mm dimension shorter than the measured height
    - fit the shortened Cw profiles between the Uw profiles so that the bottom edge of the column is pushed to the Uw profile. Move the Cw profiles to the right positions (we do not anchor the profiles between each other). Anchor the Cw edge profiles to adjacent structures, according to their type
    - create building openings using Ua profiles – door lining and Uw profiles from which an insulating frame is formed. Anchor the Ua profiles using the adjustable angle bracket and

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insulating frame from the Uw profile with LB TEX self-tapping screws into the existing Ua profiles.

- Anchoring and joining the first row of E40 Ekopanely boards
  - place the Ekopanely on a non-load-bearing metal construction and anchor with screws FN 4.2x55 (fine thread) only to CW profiles so that the integrity of the Ekopanely surface layer is not disrupted by the fastener. The maximum distance from the edge (transverse side) of the board is 70 mm. The axial distance of the fasteners is 200 mm
  - in place of the Ua columns, use TB screws 3.5x55 so that the integrity of the Ekopanely surface layer is not disrupted by the fastener. Screws are only anchored to Ua profiles. The maximum distance from the edge (transverse side) of the board is 70 mm. The axial distance of the fasteners is 200 mm
  - do not stuff the boards 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
- Inserting acoustic insulation
  - between metal profiles with a thickness of X mm, insert an acoustic insulation plate with a thickness of X mm
- Anchoring and joining the second row of E40 Ekopanely boards
  - place the Ekopanely on a non-load-bearing metal construction and anchor with screws FN 4.2x55 (fine thread) only to CW profiles so that the integrity of the Ekopanely surface layer is not disrupted by the fastener. The maximum distance from the edge (transverse side) of the board is 70 mm. The axial distance of the fasteners is 200 mm
  - in place of the Ua columns, use TB screws 3.5x55 so that the integrity of the Ekopanely surface layer is not disrupted by the fastener. Screws are only anchored to Ua profiles. The maximum distance from the edge (transverse side) of the board is 70 mm. The axial distance of the fasteners is 200 mm.
  - do not stuff the boards up to the ceiling, leave 10 mm here, which will be permanently filled with a flexible sealant – serves for a 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

## Installation tools

- hand-held circular saw
- jig saw
- drill

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- hole saw (jig-borer)
- cordless drill/driver
- shears

Consumption and a description of fasteners anchored to concrete

<b>Partition E40 M 10 m<sup>2</sup></b>	
<b>MATERIAL DESCRIPTION</b>	<b>AMOUNT</b>
Foundation plate KVH 120/60 mm	4 LM
Multi-monti 7.5x100 mm	7 pcs
Cw profile	11 pcs
Uw profile	8 LM
Screw FN 4.2x55	280 pcs
Screw 5x50mm	20 pcs
Acoustic insulation thickness x mm	10 m <sup>2</sup>
E40/800 Ekopanely boards	20 m <sup>2</sup>
Self-adhesive tape SP 75	1 pcs/25 m <sup>2</sup> 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

<b>Partition E40 M 10 m<sup>2</sup></b>	
<b>MATERIAL DESCRIPTION</b>	<b>AMOUNT</b>
Foundation plate KVH 120/60 mm	4 LM
Screw EP 5x100	7 pcs
Cw profile	11 pcs
Uw profile	8 LM
Screw FN 4.2x55	280 pcs
Screw 5x50mm	20 pcs
Acoustic insulation thickness x mm	10 m <sup>2</sup>
E40/800 Ekopanely boards	20 m <sup>2</sup>
Self-adhesive tape SP 75	1 pcs/25 m <sup>2</sup> according to the number of cuts

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