









## © Becker Gábor 201 BME Ép.szerk.Tanszé arches wedge-shape gap carved or key brick G 204 T.F. $\mathbf{x}$ r small r: big + BHH walling of arches: like walling of pillars • for exposed brick cladding the appearance of the joint is important (carved bricks, blocks) arches design of walls - lintels 2









steel, reinforced concrete design of walls - lintel beams 2

## steel beam - at once



















Gábor Becker PhD / Gyula Dési titular Docent BUILDING CONSTRUCTIONS 1 Partition walls

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# ceramic and block-high, formwork lintel partition walls function, features, grouping requirements strength, stiffness acoustic: structure: single-leaf, double-leaf functioning: flexible, semi-rigid, bend-rigid formability (cutting), fixability, reception of additional structures, shape and size tolerance, holding plaster finish summary Initels, partitions

arches – only side pressure, with one or two center points • flat, segmental, semi-circular arch intel beams – bent supports • grouping: by material, structural design, manufacturing method, when becomes loadbearing • steel, prefabricated RC beam

### BME Ép.szerk.Tan:



lintels - function, grouping









- partitions requiring plaster finish small block, masonry walled from partition blocks
- partitions with no need of plastering
  - partition blocks attached and bonded
  - plank-like, attached and bonded
  - large-size panels, floor-high partitions
  - wall-size monolithic cement-steel mesh partitions

- apartment separating wall can be made from: 20 cm RC, 25-30 cm limestone or heavy clay block
  - acoustic requirement:  $R'_{W} + C = 52 \text{ dB}$ , prevention of sound bridges

summary 2 lintels, partitions