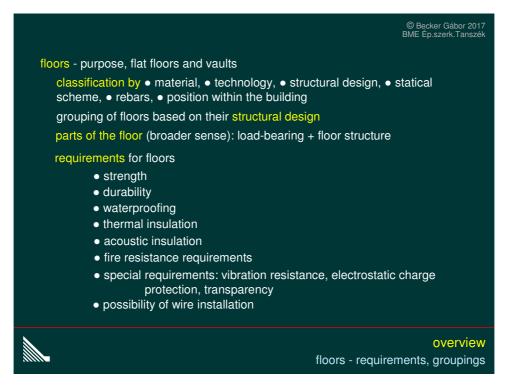
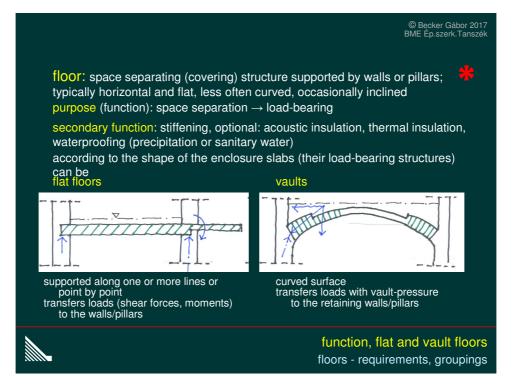


BUILDING CONSTRUCTIONS 1 Floors: requirements, groupings

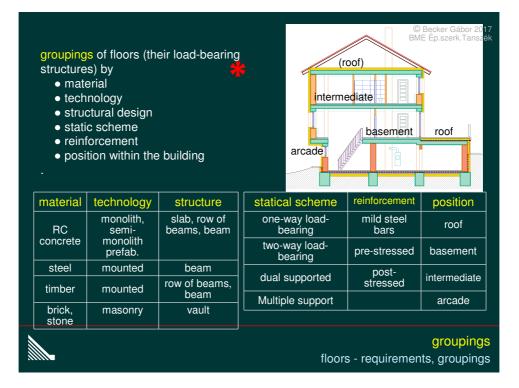
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Budapest University of Technology and Economics Faculty of Architecture 🔊 Department of Building Constructions

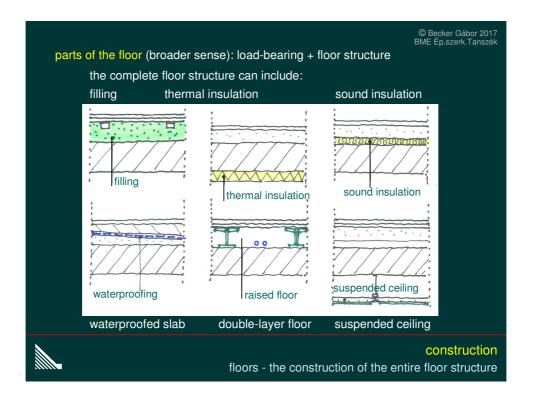


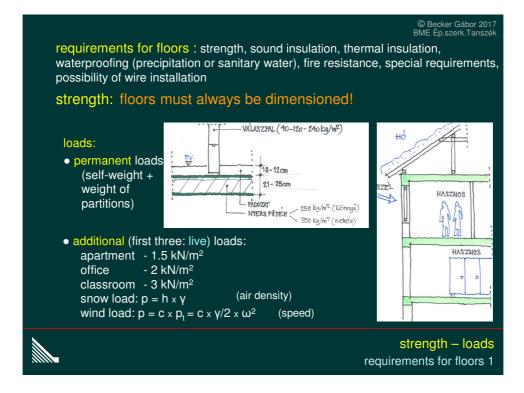


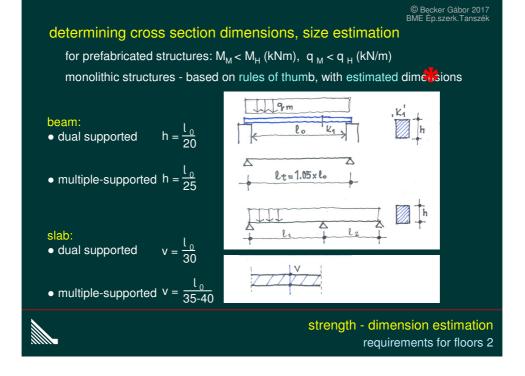


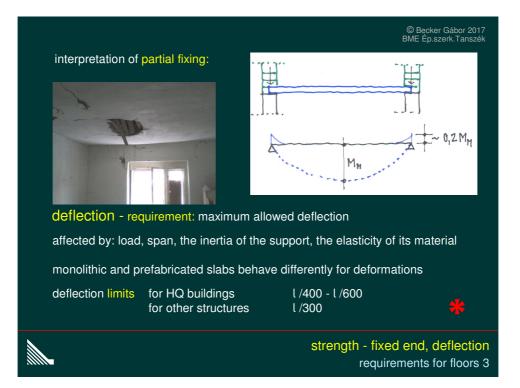


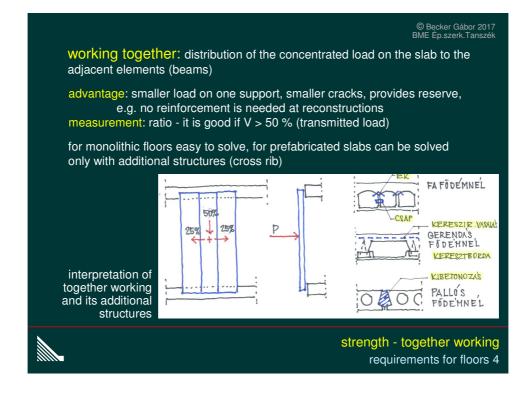
	beam floors ME Ép.szerk. Tanszék
	floors with closely placed ribs
	floors with closely placed rib and hollow block monolithic slabs
grouping of floors based on their structural design	concrete panel slabs
	structural design floors - groupings 2

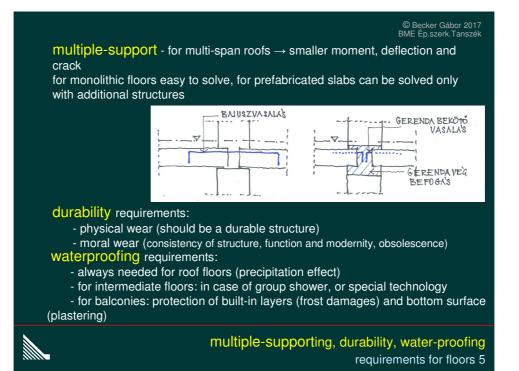


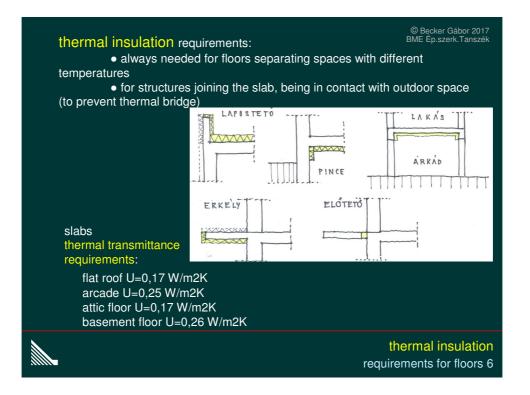


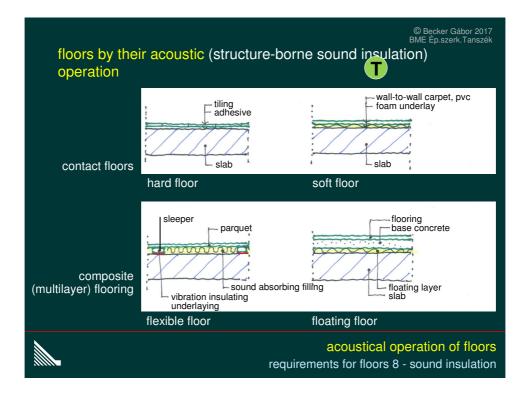


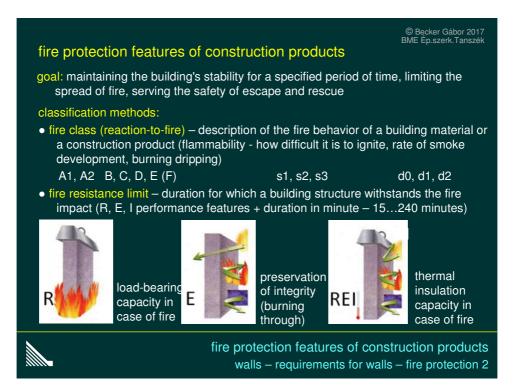




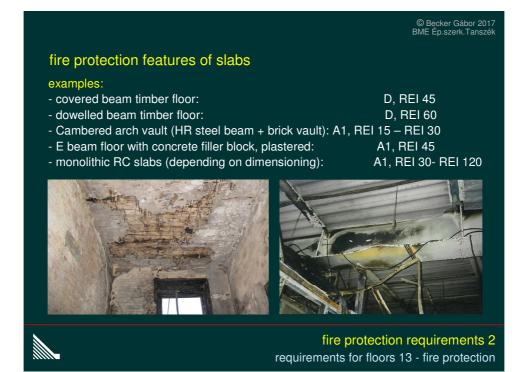


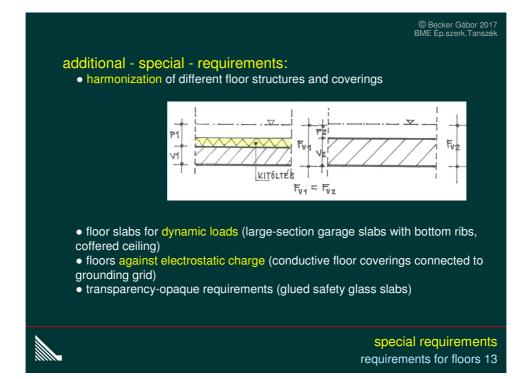






classification:				
 intermediate flo 	oor (general)			
 basement floor 				
		re compartment)		
		ke elements (bear		
		of roof slab (struct		
kg/m2 - sand	wich panels, l	ayers constructed	on corrugated ste	eel sheet)
examples of requ	uiromonte:			
stamples of requ	unements.			
examples of lequ		ng risk level and numb	per of floors]
floor type		ng risk level and numb	Der of floors Middle, B+GF+4]
	buildir Very Low,			
floor type	buildir Very Low, B+GF+R	Low, B+GF+2	Middle, B+GF+4	
floor type basement floor	buildir Very Low, B+GF+R A2, REI 30	Low, B+GF+2 A2, REI 45	Middle, B+GF+4 A2, REI 60	







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floors - purpose, flat floors and vaults classification by • material, • technology, scheme, • rebars, • position within the bui	lding
grouping of floors based on their structural	design
parts of the floor (broader sense): load-bea	aring + floor structure
requirements for floors - strength • loads - floors must alwa • cross section dimension • deflection - require • together working • multi-support (econor - durability - waterproofing - thermal insulation: thermal transm U=0,17 W/m2K	s, size estimation ment: maximum allowed deflection nical!)
	summary slabs - requirements, groupings

- sound insulation requirements: airborne and structureborne sounds

• their operation by structure-borne (immpact) sound insulation: contact floors, composite floors

- sound insulation features of unpaved floors
- impact sound insulation improving effect of floorings
- sound insulation improving effect of floorings
- fire resistance requirements
- special requirements: vibration resistance, electrostatic charge protection, transparency etc.
- possibility of wire installation

overview 2 slabs - requirements, groupings

