dataholz.eu

Designation: Last updated: Source: Editor: gdmnxn02-03 8/2/23 Holzforschung Austria HFA, PLB

Intermediate floor - gdmnxn02-03

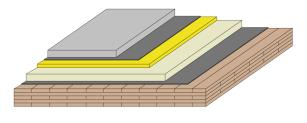
intermediate floor, solid wood construction, without lining, wet, with filling, wooden surface

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 5	kN/m² (without floor construction)
Thermal performance	U Diffusion	0.43 W/(m ² K) suitable

Calculated by HFA

52
C _{tr}) 62 dB



, , , , , , , , , , , , , , , , , , ,		A
	Р	А
	В	_
ويحتر إبرائي أحصفا وجزبا ماأعدة فالعابية وإبرائي أحصفا وجزب	_	C
	U	-
والمتراكب بالتكر ومتكافعه الكاد والكاريجية		-F

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	µ min – max	ρ	с	EN	
4	60.0	cement screed	1.330	50 - 100	2000	1.080	A1	
3		plastic separation layer	0.200	100000	1400	1.400	E	
2	30.0	impact sound absorbing subflooring MW-T [s' = 10 MN/m^3]	0.033	1	70	1.030	A1	
D	60.0	non-bonded chippings	0.700	1	1700	1.000	A1	
=		trickling protection					E	
-	140.0	cross laminated timber, minimum 5-ply, d ≥ 140,0; first layer minimum 30mm	0.130	50	500	1.600	D	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

48.1

calculated with gypsum plaster fire protection board (GKF/DF); this data includes 3-, 5-, and 7-ply cross laminated timber elements; Calculated by HFA

dataholz.eu

Designation: Last updated: Source: Editor: gdmnxn02-03 8/2/23 Holzforschung Austria HFA, PLB

Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.225	0.102	3,73E-6	0.061	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	FA 4 13	[MJ]	[M]	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	נואון	[1413]	[]		

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.