	Summa	RY OF THE PERF	ORMANCES OF 1	THE FIVE INNOVA	TIVE SYSTEMS
	Cladding sandwich panel (150mm)	Pitch roofing sandwich panel (150mm)	Double skin system	Facade cladding	Flat roofing sandwich panel (200mm)
Mechanical span validated	6m 14.97 kN	6m 19.29 kN	6m	2m	3m
Diaphragm 3m x3m	4.8 kN/150mm	8.2 kN / 150mm	29.8 kN / 150mm	n/a	10 KN / 150mm
Seismic	Pass	Pass	Test stopped (System too rigid)	Test pending	Pass
Thermal (Up)	0.38 W/m². K (150mm) 0.29 W/m². K (200mm)	0.35 W/m². K (150mm) 0.28 W/m². K (200mm)	0.24 W/m ² . K with profile. 0.30 W/m ² . K with cassettes.	>0.25 W/m². K with wall	0.15 W/m². K
Thermal choc	Pass	Not tested	n/a	n/a	Pass for use in facade
Reaction to fire	Bs1d0	Bs1d0	Bs2d0	Not tested	Bs1d0
Resistance to fire	External wall: El 30 (i→o) Partition: El 45	REI 30 25kg/m²	External wall: E90 EI30 (i→o) Partition wall: E90 EI45	Not tested depend on type of wall	No pass in the case of roof (80kg/m²) EI 60 cladding
Facade test propagation (with specific test protocol)	Pass	n/a	Not pass (performance dependent on design strategy: implementation and evaluation needed)	Not pass (performance dependent on design strategy: implementation and evaluation needed)	n/a
External fire roof performance	n/a	Tendency Brooft1	n/a	n/a	Broof t1 with insulation and membrane
Smouldering	Yes	yes	Yes	Yes	Yes
Water permeability	Class A 1200 Pa	Class A 1200 Pa	Class A 1200 Pa	Pass Depend on wall	Class A 1200 Pa
Air permeability	$1.1 \le n p \le 1.5$ c=0 $1.3 \le$ $n s \le 1.7$ c=0	n p 1.4 c = 0 n s 1.2 c = 0	n p 0.8 c = 0.3	Pass Depend on wall	Results for panel: N p 0.8 c 0.2 N s 0.9 c 0.1 Results for panel+insulation+membrane: N p 2.1 c 0 N s 2.0 c 0
Acoustic	R _{w(C,Ctr)} 29 (-1 ;- 3) dB	R _{w(C,Ctr)} 30 (-1 ;- 3) dB	R _{w(C,Ctr)} 49 (-2 ;- 9) dB	>30 db (effect of wall)	R _{w(C,Ctr)} 33(-1 ;-4) dB
Fungi test	Sensitive	Sensitive	Sensitive	Sensitive	Sensitive
Durability	Pass Dur2 EN 14509	Pass Dur2 EN 14509	n/a	n/a	Pass Dur2 EN 14509
	Pass demonstrator 2 years	Pass demonstrator 2 years	Pass demonstrator 2 years	Pass demonstrator 2 years	Pass demonstrator 2 years
Climate change- total A-D (kg CO2 equiv/UF)	Panel 200 mm 23,9 Panel 150 mm 22,6	Panel 200 mm 25,9 Panel 150 mm 24,6	36,3	32,0	43,3
Wood fiber sourcing	PEFC label	PEFC label	PEFC label	PEFC label	PEFC label

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