

# Alveocel LA CS D20-02 RAOP

**Material:** **Alveocel LA CS D20-02 RAOP** is a closed-cell foam made of high-performance polyolefin. It is produced without CFCs and HCFCs and contains neither plasticizers nor heavy metals or other hazardous substances.

**Application:** **Alveocel LA CS D20-02 RAOP** underlay is applicable for floating installation under laminate and parquet floorings.

**Features:**

- good impact sound reduction
- very good conformity which selectively compensates the uneven substrates on floor screed
- with integrated water vapour control layer to avoid moisture diffusion from the subfloor
- recyclable

## Technical data

RWS	IS	CS	CC	DL	PCv	RLB	TR	SD	RTF
[ % ]	[ dB ]	[ kPa ]	[ kPa ]	0.1-25 kPa c ≥ 2'500 Δ d ≤ 0.5 mm	[ mm ]	[ m ]	[ m² K/W ]	[ m ]	[ class ]
7	19	≥ 10	≥ 2		1.5	1.2	0,044	200	E <sub>fl</sub>

	Property	Unit	Value	Norm
d:	<b>Thickness</b> of the underlay measured at 100 Pa pre-load	mm	2.0 (±10%)	EN 823 <sup>1)</sup>
RWS:	<b>Reflected walking sound</b> • walking sound reduction compared to reference floor covering of 7 mm monolithic DPL laminate board on top of an underlay PE 25-03	%	7	intern, SAAG WS 021029-5 F1
IS:	<b>Impact sound improvement</b> • measured under 7 mm laminate flooring	dB	19	EN ISO 10140-3 / EN ISO 717-2
CS:	<b>Compressive strength</b> • tested at 0.5 mm compression under 100 Pa pre-load	kPa	≥ 10	EN 826 <sup>1)</sup>
CC:	<b>Compressive creep under long term static load</b> • max. thickness loss of 0.5 mm extrapolated to 10 years	kPa	≥ 2	EN 1606 <sup>1)</sup>
DL:	<b>Dynamic load</b> • alternating load cycles from $\sigma_{min} = 0.1$ to $\sigma_{max}$ • number of load cycles • max. deformation / thickness loss $\Delta d$	kPa no.cycl. mm	25 ≥ 2.500 ≤ 0.5	EN 13793 <sup>1)</sup>
PCv:	<b>Punctual conformability</b> to even out unevenness of subfloor	mm	1.5	EN 16354:2018
RLB:	<b>Resistance to impact by large diameter ball</b> • to be tested on flooring system (underlay+laminat flooring)	m	1.2	EN 13329 Annex F and EN 438 Chapter 21
TR:	<b>Thermal resistance</b> <sup>2)</sup> at 24°C mean temperature	m² K/W	0,044	EN 12667 / EN 12664
SD:	<b>Water vapour diffusion resistance of the underlay</b> <sup>3)</sup> • diffusion-equivalent air layer thickness, SD-value • acc. EN 12086 method A, measured at 23°C, 0-50% rel. humidity	m	200	EN 12086
		foil-type	---	AOP
WA:	<b>Water absorption</b> by foam	Vol%	< 1	EN 12087
RTF:	<b>Reaction to fire</b>	class	E <sub>fl</sub>	Test acc. EN ISO 11925-2 classification acc. EN 13501-1, Table 2

n.p.d. = no performance determined

1) Tests done in accordance to the mentioned standards and the modifications listed in document EN 16354:2018.

2) According to the recommendations of "Bundesverband Flächenheizungen und Flächenkühlungen e.V. (BVF)" and EN 1264-3, this underlay is applicable for underfloor heating systems. The total R-value of the complete floor construction of max. 0,15 m² K/W, has to be considered.

3) The water vapour diffusion resistance (SD) value is valid only for the underlay, when the butted click connections are carefully sealed with tape.

Chemical resistance:

- against water, most domestic cleaners, solutions of salt, acids and bases
- partly durable against organic solvents and hydrocarbons

Storage conditions:

- do not store outdoors, protect from exposure of sunlight
- prevent electrostatic discharges, keep away from ignition source, do not smoke!

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