



# Optimal

## Sheep's wool insulation 18kg/m<sup>3</sup>

Sheep's wool felt made from and contains 100% pure sheep's wool and needled on one side

Fitted with pesticide-free tested wool protection **ionic Protect**<sup>®</sup>; permanence test in accordance with CUAP/EAD, Nature Plus certificate, ETA; no foreign supporting fibers or mesh

Very good sound absorption properties, very well suited to acoustic ceilings

Very good heat insulation properties for floor, wall, ceiling and roof structures

Very good water absorption characteristics and very good moisture characteristics in moisture-imperious structures with increased risk of condensate formation

Hygroscopic, yet hydrophobic

Especially suitable for all insulation areas with wooden posts or wooden slats as primary structure

Particularly easy to assemble thanks to carrier felt on one side

### Application:

Tie-beam ceiling, roof, top floor ceiling, wall, facade, floor, acoustic ceiling, service cavities, wood frame construction, log planks

### Handling:

Cutting to length can be done manually without tools. Insert the insulation rolls from bottom to top and fix the surface felt to the rafters by stapling it laterally.

### Additional Uses:

Healthy ambient air thanks to the air-cleaning action of sheep's wool

Pleasant indoor climate thanks to the moisture-regulating action of sheep's wool

### Technical Data:

Bulk density:	18	kg/m <sup>3</sup>					
Heat conductivity $\lambda_{tot}$ .*	0,0385	W/mK					
Coefficient of vapor diffusion resistance $\mu$ :	1						
specific heat capacity c:	1760	J/kgK					
length-based current resistance r:**	4,1	kPa*s/m <sup>2</sup>					
Flammability class:**	<b>E s1, do</b>					<b>BKZ in CH: 5,3</b>	
Classification of acoustic ceiling element:****	<b>B s1, do</b>						
Degree of sound absorption: *****	f [Hz]	125	250	500	1000	2000	4000
	$\alpha_s$	0,43	0,47	0,68	0,76	0,86	0,95

\*MA 39 - VFA2036.02/1998 \*\*Quiring Consultants P - 841 - 2001/1-1 \*\*\*MA 39 - VFA 2001 - 0995.01 \*\*\*\* Plasterboard 12mm thickness, punching 18/18 - 5mm diameter | ISOLENA Optimal (40mm) | 60mm rear ventilation \*\*\*\*\*Quiring Consultants RB - 715 - 2001/09-1