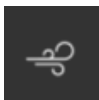
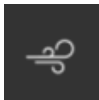


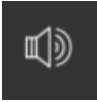
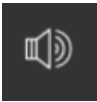
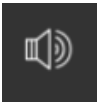




WELL version 2
PRODUCT DATA FOR CERTIFICATION
WOOD WOOL – HERAKLITH

WELL v2 operates on a points-based system, with a total of 110 points available to each project. All optimizations have maximum point-values. The point-value of a feature is determined by its potential for impact. This is defined as the extent to which a feature addresses a specific health and wellness concern or opportunity for health promotion, and the potential impact of effective intervention.

Feature	Part	Definition	Knauf Insulation Products contribution	Contributes towards
A01. Fundamental Air Quality 	A01.2 Meet Thresholds for Organic Gases	To provide acceptable air quality levels as determined by public health authorities.	Products are compliant with the German AgBB Testing and Evaluation Scheme and the higher category (A+) of the French labelling. They are certified with Blue Angel low air emission ecolabel (following RAL-UZ-132) ¹	Precondition
A05. Enhanced Air Quality 	A05.2 Meet Enhanced Thresholds for Organic Gases	To go above current guidelines to provide enhanced air quality levels that have been linked to improved human health and performance.		1 point
T01. Thermal Performance 	T01.1 Support Thermal Environment	To create indoor thermal environments that provide comfortable thermal conditions to the majority of people in support of their health, well-being and productivity.	Wood Wool products help reducing energy demand through very high insulation efficiency.	Precondition

¹ See annexe 1

Feature	Part	Definition	Knauf Insulation Products contribution	Contributes towards
S01. Sound Mapping 	S01.1 Manage Background Noise Level	To create an acoustical plan that identifies internal and external noise sources that can negatively impact the acoustical environment of interior spaces.	Wood Wool products have high performance acoustic properties	Precondition
	S01.2 Manage Acoustical Privacy			
S02. Maximum Noise Levels 	S02.1 Limit Background Noise Levels	To facilitate comfortable interior noise levels. This feature can operate in tandem with Feature S01: Sound Mapping.		3 points
	S03. Sound Barriers 	S03.1 Ensure Adequate Wall Construction		
X10. Volatile Compound Reduction 	X10.1 Manage Volatile Organic Compounds	To restrict hazardous VOC and SVOC compounds, halogenated flame retardants (HFRs), urea-formaldehyde and select phthalates commonly used in building materials and products		Products are compliant with the German AgBB Testing and Evaluation Scheme and the higher category (A+) of the French labelling. They are certified with Blue Angel low air emission ecolabel (following RAL-UZ-132) ²
	X11. Long-Term Emission Control 	X11.2 Manage Flooring and Insulation Emissions	To test and adhere to emission thresholds for newly purchased furniture and furnishings, flooring and insulation.	



KNAUF INSULATION products can put you on the right track for the highest result for certification!

² See annexe 1

Annexe 1

Blue Angel Requirements and certificate

From document: “Basic Criteria for Award of the Environmental Label; Low-Emission Thermal Insulation Material and Suspended Ceilings for Use in Buildings RAL-UZ 132”. The product shall not exceed the emission values listed in Table 1 in the test chamber in conformity with the “Health risk assessment process for emissions of volatile organic compounds (VOC) from building products” developed by the Committee for Health-related Evaluation of Building Products.

Table 1: Emission Values

Substance	Requirements Final Value 28 Days
Total organic compounds within the retention range C₆ – C₁₆ (TVOC)	≤ 100 µg/m ³
Total organic compounds within the retention range > C₁₆ – C₂₂ (TSVOC)	≤ 20 µg/m ³
C substances ¹²	≤ 1 µg/m ³ per single value
Total VOC without LIC ^{13, 14}	≤ 50 µg/m ³
R value	≤ 1
Formaldehyde	≤ 0.05 ppm



CERTIFICATE

ON THE BASIS OF THE
CONTRACT ON THE USE OF THE ENVIRONMENTAL LABEL NO. 24204 BASED ON RAL-UZ 132

**KNAUF INSULATION OPERATION GMBH
84359 SIMBACH, GERMANY**

IS GRANTED THE RIGHT TO USE THE BLUE ANGEL ECOLABEL SHOWN BELOW
FOR THE PRODUCT

Wärmedämmstoffe für die Innendämmung gemäß Anlage

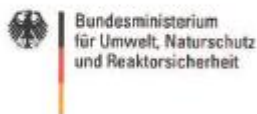
UNTIL 31.12.2015 AS A SIGN OF SPECIAL ENVIRONMENTAL FRIENDLINESS.

SANKT AUGUSTIN, THIS 13 NOVEMBER 2013



Kon
CHAIRMAN OF THE BOARD

RAL gGMBH





CERTIFICATE

ON THE BASIS OF THE
CONTRACT ON THE USE OF THE ENVIRONMENTAL LABEL NO. 24206 BASED ON RAL-UZ 132

**KNAUF INSULATION KFT.
8924 ZALAEGERSZEG, UNGARY**

IS GRANTED THE RIGHT TO USE THE BLUE ANGEL ECOLABEL SHOWN BELOW
FOR THE PRODUCT

Wärmedämmstoffe für die Innendämmung gemäß Anlage

UNTIL 31.12.2015 AS A SIGN OF SPECIAL ENVIRONMENTAL FRIENDLINESS.

SANKT AUGUSTIN, THIS 13 NOVEMBER 2013



Karl
CHAIRMAN OF THE BOARD

RAL gGMBH

