



Federal Ministry
for Economic Affairs
and Energy



**MITTELSTAND
GLOBAL**
ENERGY SOLUTIONS
MADE IN GERMANY

ENERGY EFFICIENT BUILDINGS

successful with quality control

20.11.2018, Vilnius

DR. DANIEL SCHERZ
Speaking about Sustainability



SPECIFICS

of energy efficient buildings

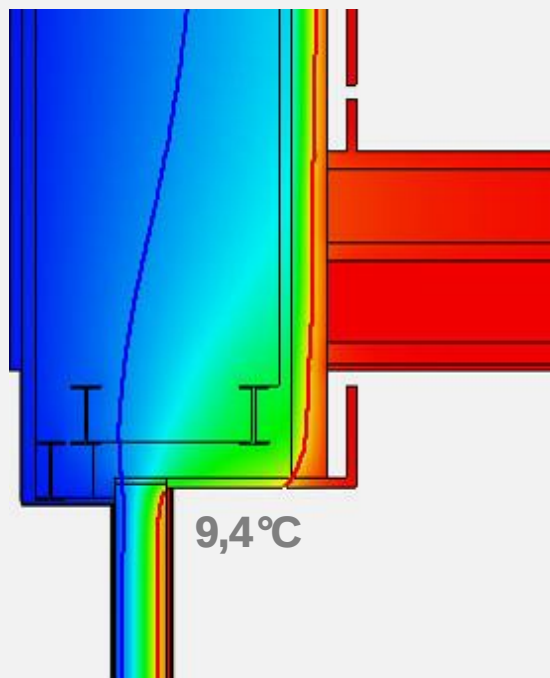


Source: Fachverband Mineralwollindustrie

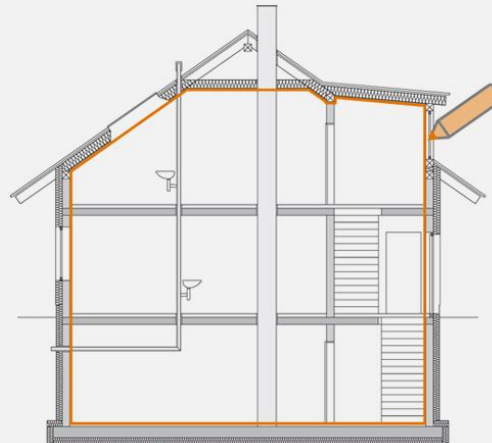
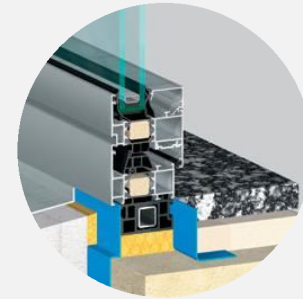
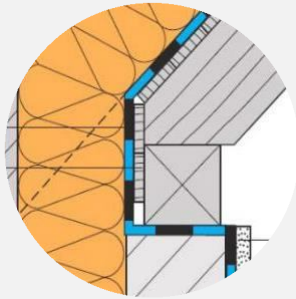


Source: Schreinerei Koch

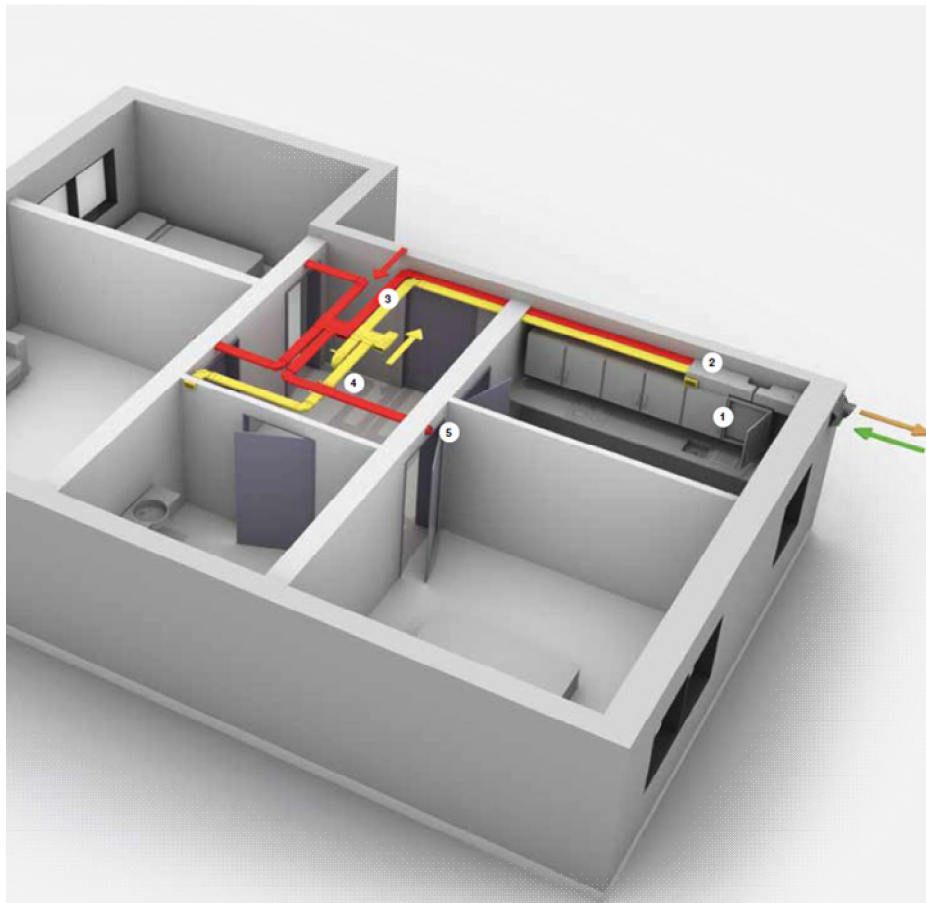
-10,0°C



20,0°C



Source: Luftdicht.de, FLiB e.V., PH Roenn, Schüco, Passivhaus - 2001



Source: Zehnder



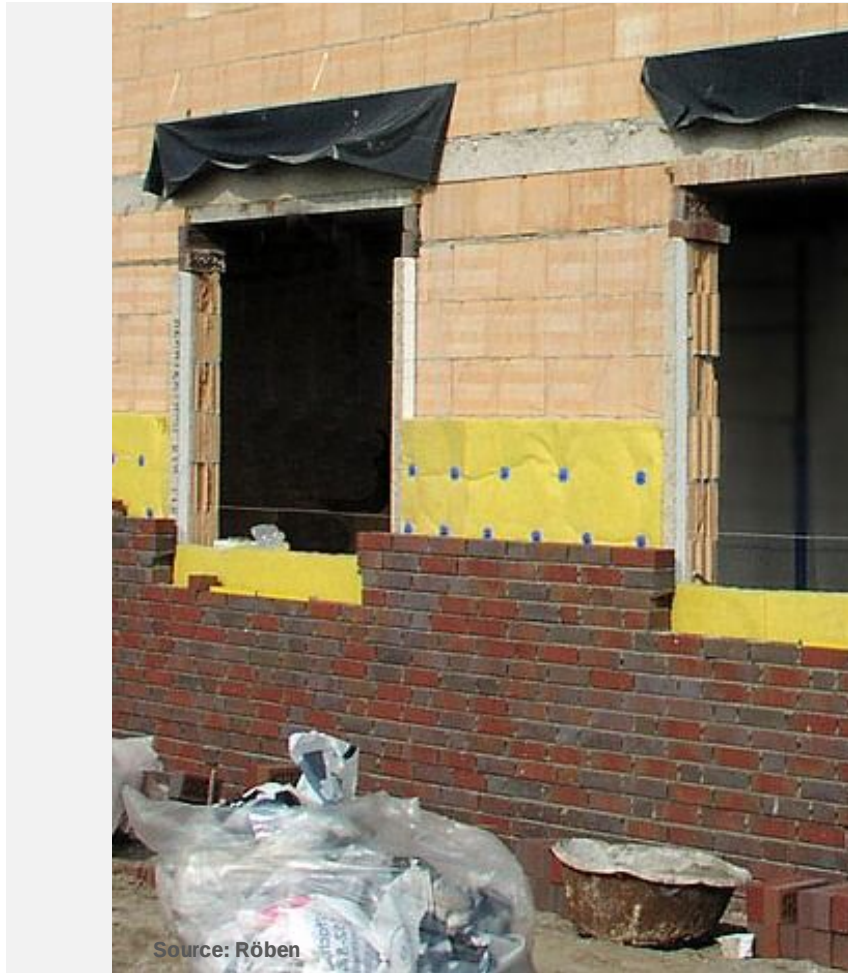
Source: Schüko

DEFECTS

in energy efficient construction

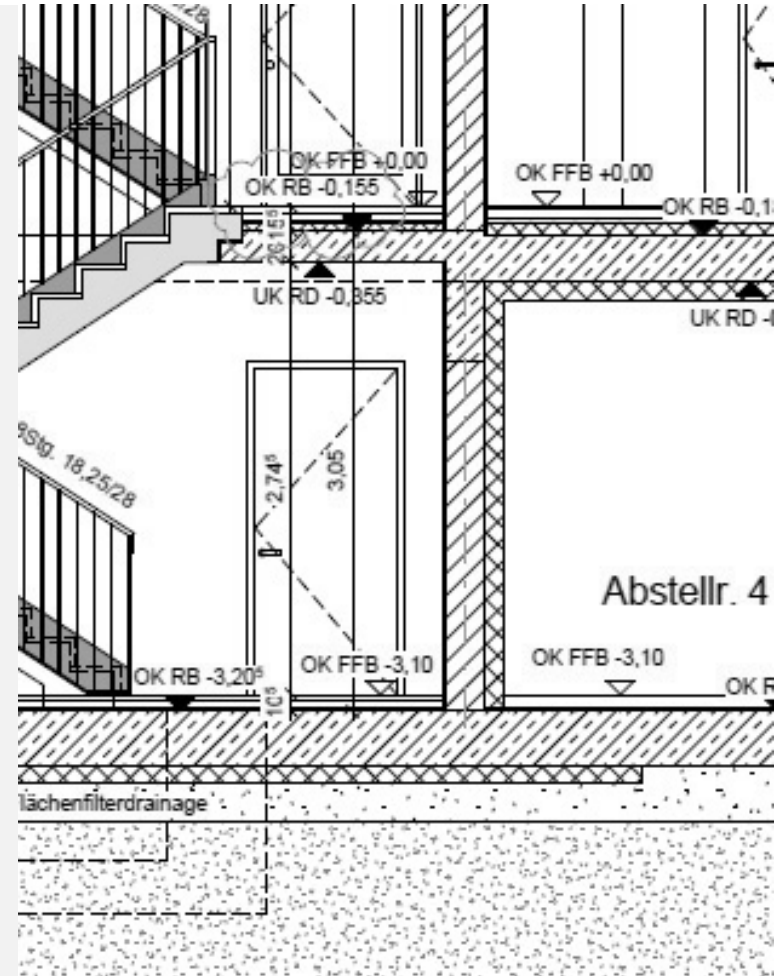
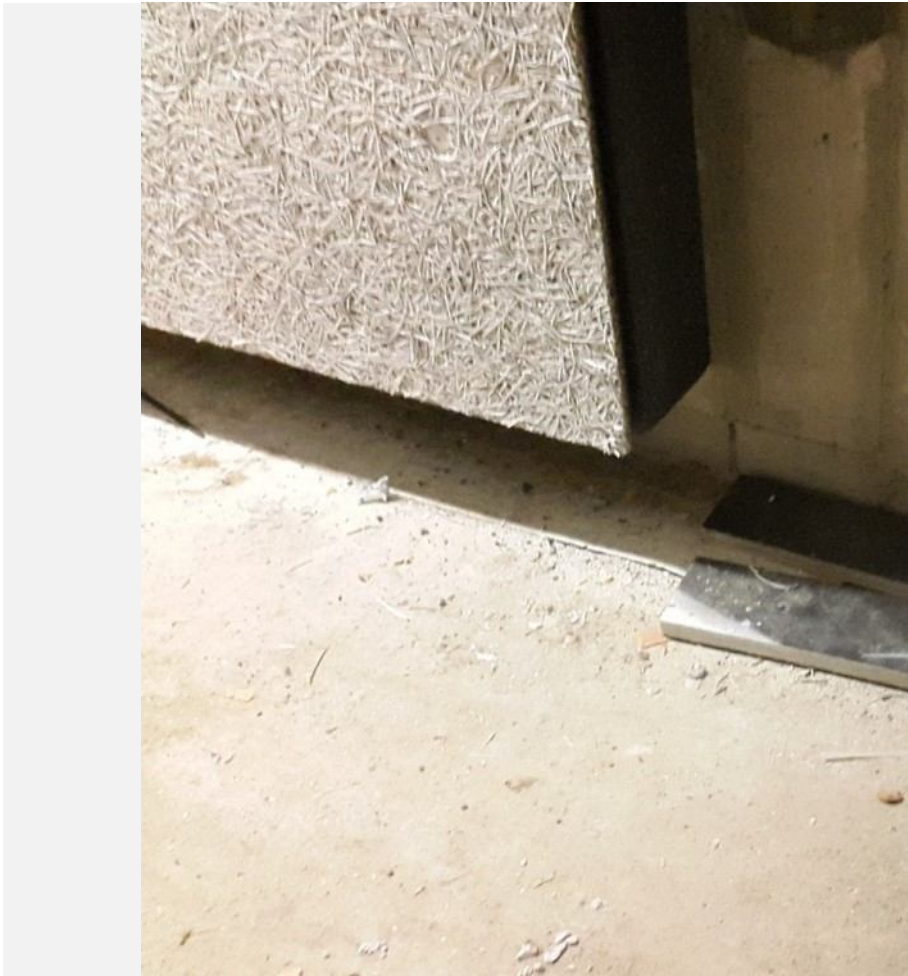


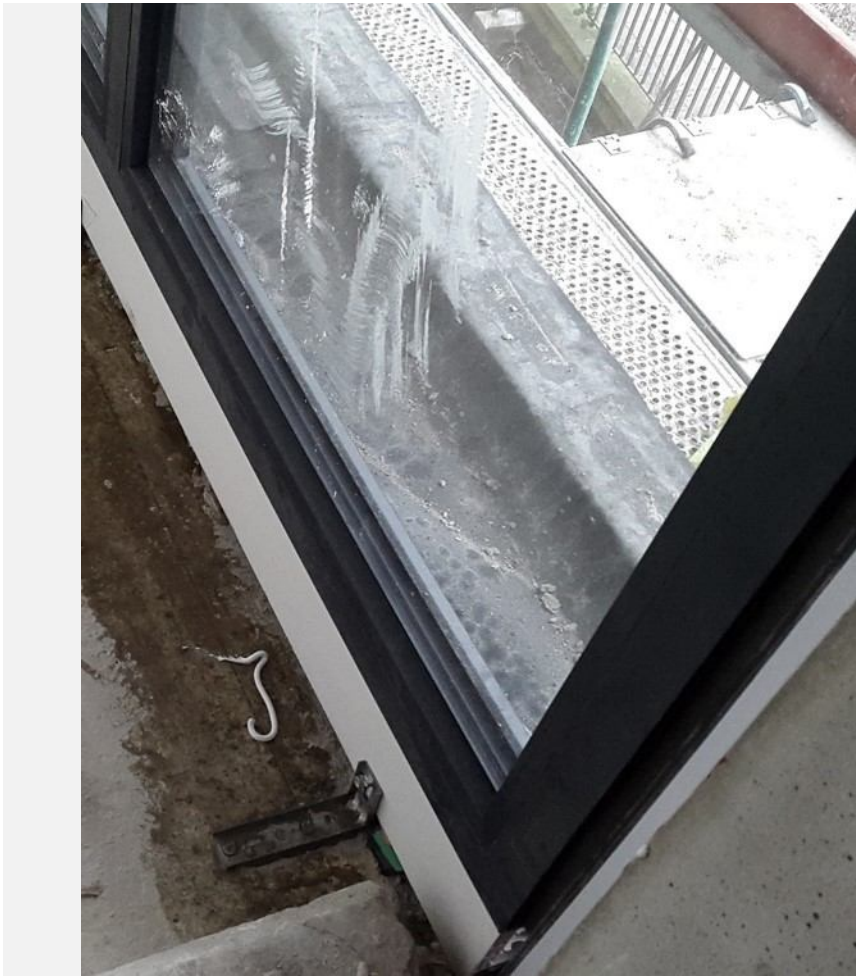
Source: Momentum





Source: Haus und Wohnung 24







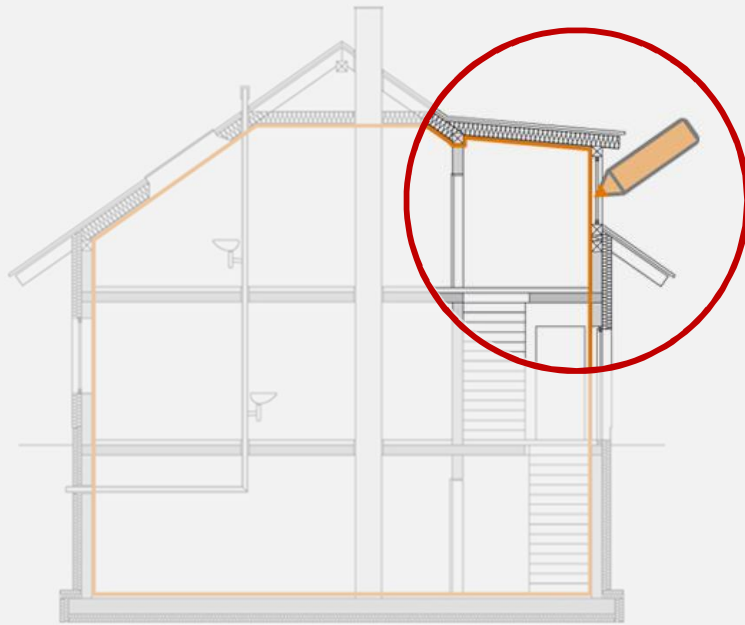




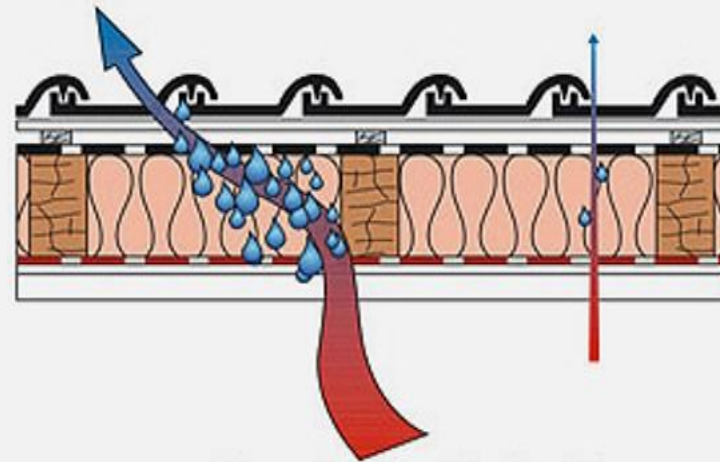




Source: Alfa



Source: Passivhaus - 2001



Source: Energieagentur NRW



12 l
water vapor / day



2 %
through walls

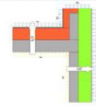
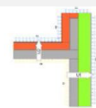
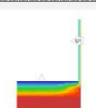
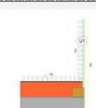
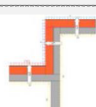


98 %
through windows/ventilation

QUALITY CONTROL

for energy efficient building processes

Check List - Quality Control						
Quality control - Implementation of the energy relevant building components						
	Project X	Sector X	Building X	Issuer: X		Date: X
Nr.	Building component	Last check on	Status	Result	Check Nr.	Remark
fb 1.0	Floor to cellar	28.08.2018			548875	Not completed
fb 1.1	Floor to ground	12.07.2018			546632	Not completed
fb 1.2	Floor to garage	27.08.2018			548899	Thickness of insulation to little
iw 1.0	Inner wall to staircase	12.07.2018			552489	O.K.
iw 1.1	Inner wall to lift	27.07.2018			564477	Insulation Material not correct
aw 1.0	Outer wall brick	12.07.2018			554211	O.K.
aw 1.1	Outer wall thermal insulation system	12.07.2018			545533	O.K.
aw 1.2	Outer wall gangway	27.07.2018				
aw 2.0	Outer wall to ground	27.07.2018				
da 1.0	Main roof	12.07.2018				
da 1.1	Terrace					
afn/afs	Windows					
atn	Doors					

Preview		Description	Value	Length
 		TB- 1 Attica THI D.01.108	0,0717 W/(mK)	54,06 m
		Page 9-10		
 		TB- 3 Attica rooftop D.01.114	0,0679 W/(mK)	47,40 m
		Page 11-12		
 		TB- 4 Connection roofwindow D.01.107	0,0401 W/(mK)	8,40 m
		Page 13-14		
 		TB- 6a Liftroof D.01.103	-0,0212 W/(mK)	20,4 m
		Page 15-16		
 				



Source: KfW



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EffizienzHaus

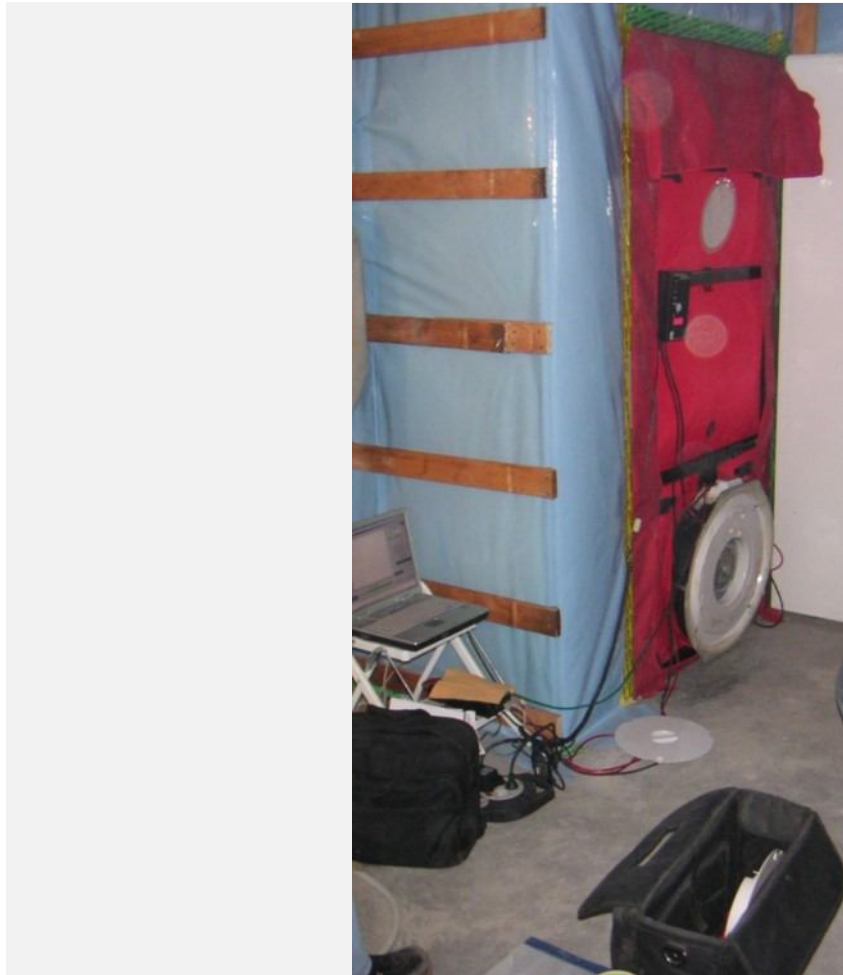




Source: Oventrop



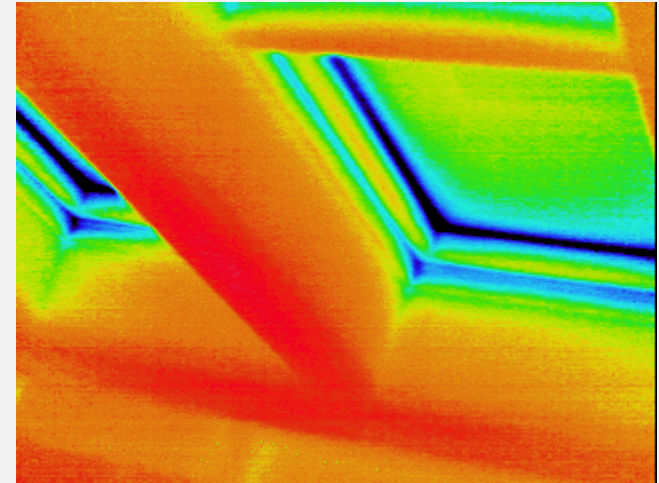
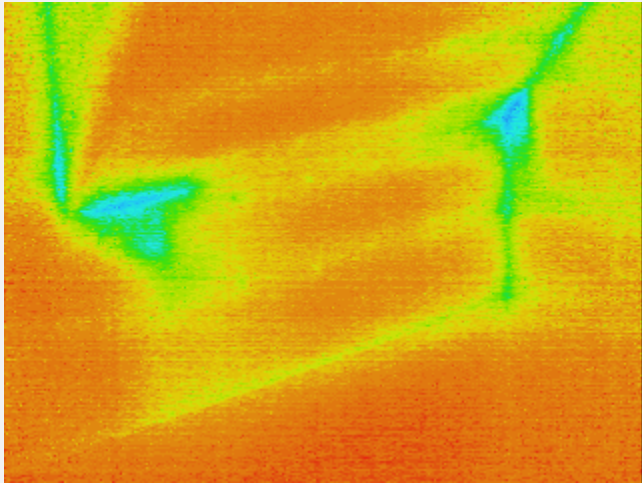
Source: Wöhler



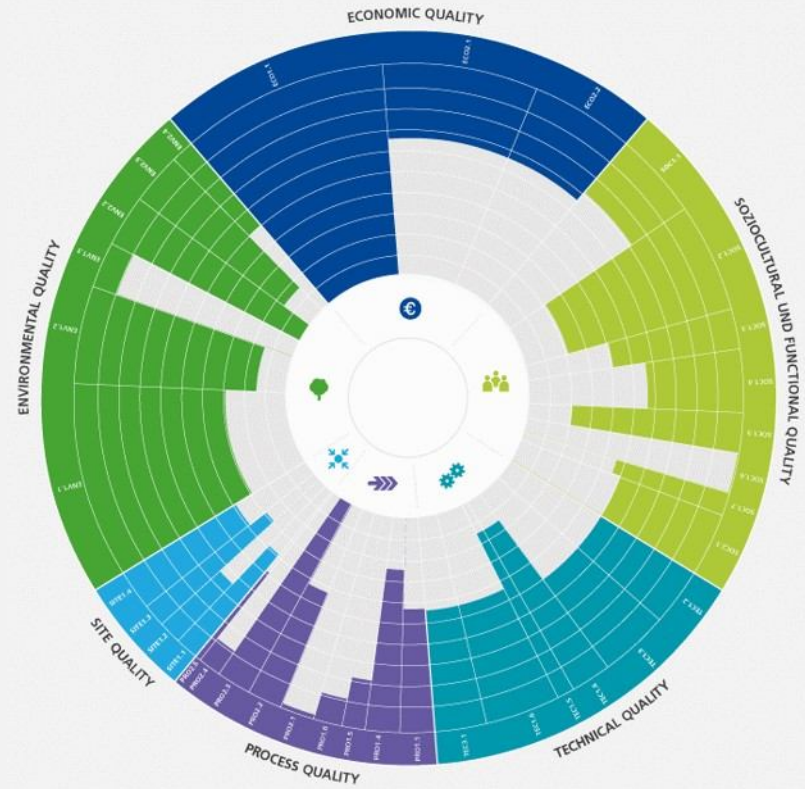
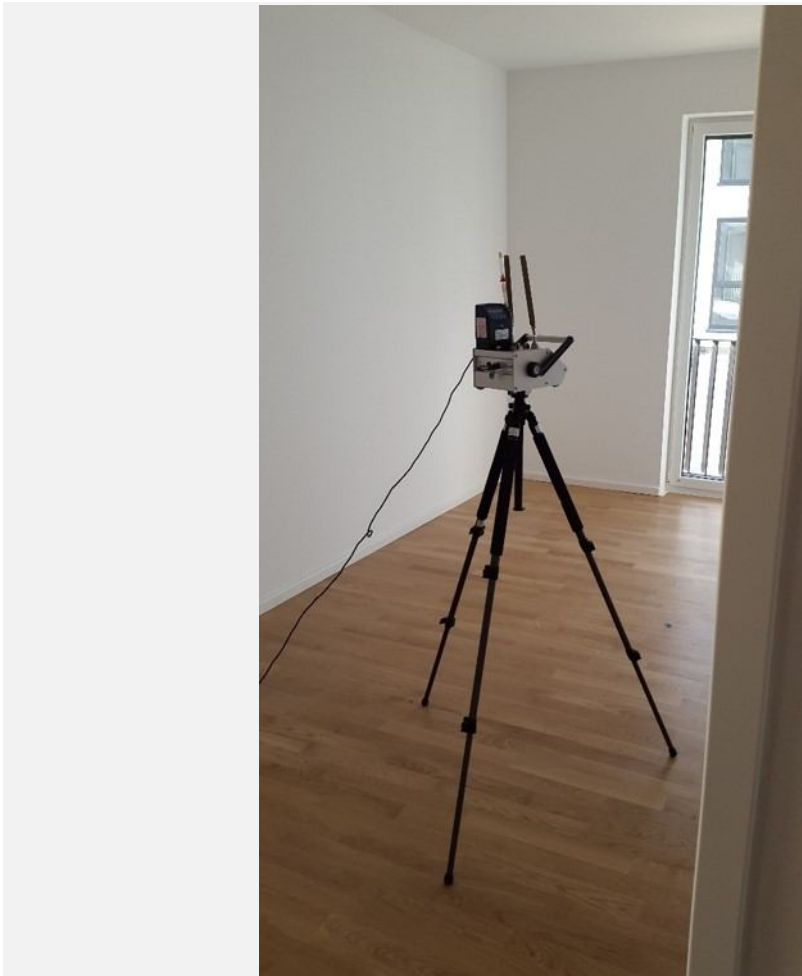
Source: EEM



Source: Luftdicht.de



Source: Flir



Source: DGNB



Source: Rolls - Royce



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