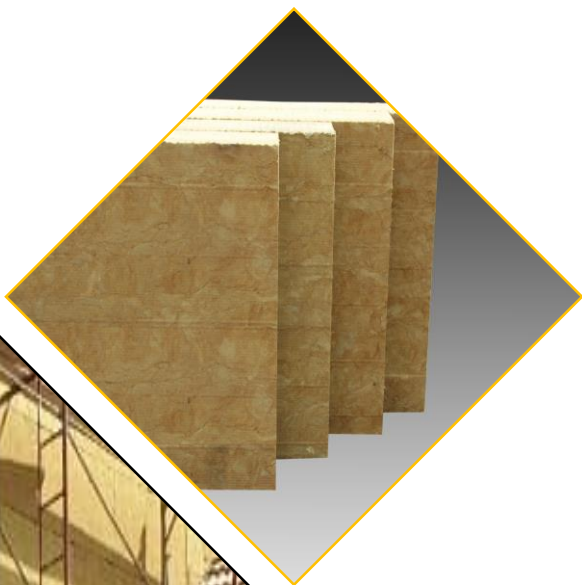


Saudi Rockwool

ETICS / EIFS

External Thermal Insulation Composite System



Saudi
Rockwool الطوف
الطكري
السعودي

ETICS / EIFS (External Thermal Insulation Composite System)

Modern High Quality Continuous Thermal Insulation Composite System for external walls without thermal bridges. This system is suitable for new constructions as well existing un-insulated/inefficient old buildings like villas, low and mid rise multistory dwelling units / hospitals / school buildings. It achieves exceptional thermal efficiency to the building to comply with the regulatory norms for energy conservation.

Latest building codes for energy efficiency demands for continuous insulation (C.I.) systems and ETICS / EIFS is suitably in line with the requirement of continuous Insulation without any thermal Bridges with a large range of external finishing types. Almost any kind of finishing can be achieved with selection of variety of renders.

Benefits of ETICS / EIFS System

- Reduction of energy consumption
- Reduction in CO₂ emission.
- Continuous insulation system
- Increases living comfort
- No thermal bridges
- Reduced wall size
- Main structures not exposed to climatic conditions
- Modified polymerized plaster/render, free from cracks.
- Variety of renders available to select.
- Compliance to building codes for energy efficiency.

Evacuation not necessarily required for the old / existing buildings while working on facade.

ETICS System

ETICS / EIFS is the abbreviation for External Thermal Insulation Composite System. ETICS / EIFS can be used to improve the energy efficiency of both new and existing buildings..

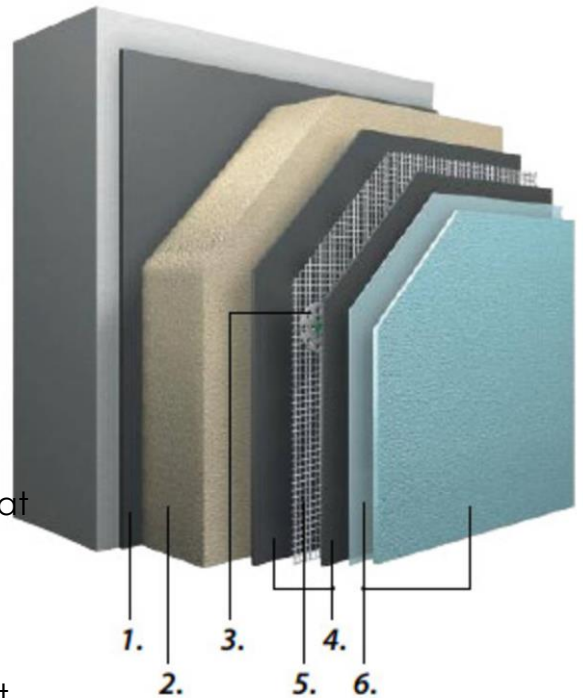
In general the ETICS / EIFS is supplied as a system by the system holder, who select various components of the ETICS / EIFS system and the system is rigorously tested for it's durability, efficiency and service life. Insulation is integral part of the ETICS system.

SRW being the Rockwool insulation manufacturer has developed the Product suitable to ETICS / EIFS system.

Typical System Components are

1. Adhesive
2. **SRW Rockwool ETICS/EIFS insulation Boards**
3. Anchors
4. Base coat
5. Reinforcement, usually glass fiber mesh
6. Finishing layer: finishing coat with a key coat (optional) and/or a decorative coat (optional)

Accessories: Fabricated corner beads, connection and edge profiles, expansion joint profiles, base profiles, etc.



Rockwool Insulation ETICS ensures for fire and acoustical performance of the external wall system.

SRW ETICS Board

ETICS / EIFS system call for certain parameters from mineral fiber Rockwool Insulation to be used in an ETICS / EIFS system as an efficient insulation providing excellent thermal properties, extraordinarily high compressive resistance, a straight, even and smooth surface finish to receive the ETICS / EIFS base coat components with reinforcement through out the life of the system.

SRWF has developed SRW ETICS / EIFS Rockwool Board & Lamella Insulation to fulfill the above requisite properties. SRW ETICS / EIFS Products are tested and approved by various ETICS / EIFS system suppliers in the region.

SRWF Rockwool products are tested for various properties from a recognized third party international laboratories in accordance with various International Standards like ASTM C 612, BS EN 13162, ISO etc.

SRW ETICS / EIFS Rockwool Board Benefits

- Comparatively Higher Compressive Strength against Normal Rockwool Board
- Excellent Thermal Efficiency
- Acoustically Absorbent **NRC-1.0**
- Non-Combustible
- Euroclass Fire Classification – **“A1”**
- **“zero”** Flame Spread Index
- **“zero”** smoke Developed Index
- Greenguard Certified
- FM Approved

SRW ETICS Insulation Solution

ETICS BOARD

- SRW ET – 128
- SRW ET – 140

LAMELLA ETICS

- SRW LET – 100
- SRW LET – 128
- SRW LET – 140



SRW ETICS / EIFS PANEL



Rockwool Lamella Strips

Lamella TDS Available on request.

Technical Data: - SRW ETICS/EIFS Board - SRW ET-128

SRWF EIFS Rockwool products made out from molten Basalt rock @1600 °C spun to fine fibers and bonded with thermosetting binder to form rigid high compressive Strength Rockwool Boards.

Water repellent grade, non-combustible Rockwool insulation with melting temperature above 1100 °C, design for higher point and impact load. Manufactured in compliance to **ASTM C 612, BS EN 13162** with the following Characteristics:

Description	Units	Value	Compliance
Density	Kg/m ³	128	ASTM C 303
Thickness	mm	50-170	ASTM C 303
Length	mm	1200	ASTM C 303
Width	mm	600	ASTM C 303
Thermal Conductivity @ 24 °C (75 °F) Thermal Conductivity @ 35 °C (95 °F)	W/m.K	0.033 0.035	ASTM C 177 / C 518 EN 12667
Thermal Resistivity@ 24 °C (75 °F) Thermal Resistivity@ 35 °C (95 °F)	m.K/W	30.30 28.57	
Flame spread index		"ZERO"	ASTM E 84 / UL 723
Smoke Developed Index		"ZERO"	ASTM E 84 / UL 723
Euroclass Fire Classification		"A1"	BS EN 13501-1
Combustibility		Non-Combustible	ASTM E 136 / BS EN 1182
Max. Use Temperature	°C	750	ATM C 411
Compressive resistance at 10 % deformation (Kpa)	Kpa	>40	ASTM C 165
Tensile Strength Perpendicular (Kpa)	Kpa	>9	BS EN 1607
Shot content	% by weight	<25	ASTM C 612
Corrosiveness		Non-corrosive	ASTM C871/C795/C692
Water vapor sorption	%	<1% by Weight	ASTM C 1104
Alkalinity (pH)	pH Scale	7-9	BS 2972, Sec 22
Fungi Resistance		Does not encourage Growth	ASTM C 665 ASTM C 1338
Rigidity		Rigid	ASTM C 1101
Leachable Chloride	PPM	<10	ASTM C871/C795/C692
Noise Reduction Co-efficient (NRC)		1	ASTM C 423

Note: The Information provided in the data sheet is based on the results of test conducted on SRWF products by external third party test laboratories and in house Test Lab hence for reference to use as and when required by the user of the products with no legal guarantee. SRWF keeps the right to change the information as a part of continual improvement based on the latest standards and the change in the testing methods to obtain the parameters and all the above values subjected to Standards tolerances.

Technical Data: - SRW ETICS/EIFS Board - SRW ET-140

SRWF EIFS Rockwool products made out from molten Basalt rock @1600 °C spun to fine fibers and bonded with thermosetting binder to form rigid high compressive Strength Rockwool Boards.

Water repellent grade, non-combustible Rockwool insulation with melting temperature above 1100 °C, design for higher point and impact load. Manufactured in compliance to **ASTM C 612, BS EN 13162** with the following Characteristics:

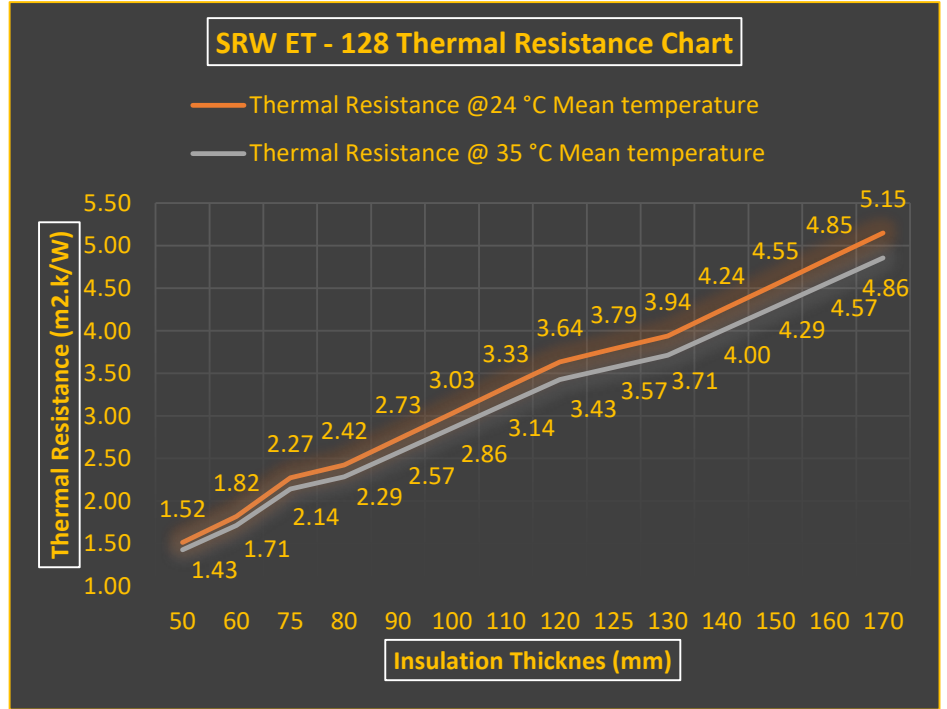
Description	Units	Value	Compliance
Density	Kg/m ³	140	ASTM C 303
Thickness	mm	50-150	ASTM C 303
Length	mm	1200	ASTM C 303
Width	mm	600	ASTM C 303
Thermal Conductivity @ 24 °C (75 °F) Thermal Conductivity @ 35 °C (95 °F)	W/m.K	0.034 0.036	ASTM C 177 / C 518 EN 12667
Thermal Resistivity@ 24 °C (75 °F) Thermal Resistivity@ 35 °C (95 °F)	m.K/W	29.41 27.78	
Flame spread index		"ZERO"	ASTM E 84 / UL 723
Smoke Developed Index		"ZERO"	ASTM E 84 / UL 723
Euroclass Fire Classification		"A1"	BS EN 13501-1
Combustibility		Non-Combustible	ASTM E 136 / BS EN 1182
Max. Use Temperature	°C	750	ATM C 411
Compressive resistance at 10 % deformation (Kpa)	Kpa	>50	ASTM C 165
Tensile Strength Perpendicular (Kpa)	Kpa	>9	BS EN 1607
Shot content	% by weight	<25	ASTM C 612
Corrosiveness		Non-corrosive	ASTM C871/C795/C692
Water vapor sorption	%	<1% by Weight	ASTM C 1104
Alkalinity (pH)	pH Scale	7-9	BS 2972, Sec 22
Fungi Resistance		Does not encourage Growth	ASTM C 665 ASTM C 1338
Rigidity		Rigid	ASTM C 1101
Leachable Chloride	PPM	<10	ASTM C871/C795/C692
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Note: The Information provided in the data sheet is based on the results of test conducted on SRWF products by external third party test laboratories and in house Test Lab hence for reference to use as and when required by the user of the products with no legal guarantee. SRWF keeps the right to change the information as a part of continual improvement based on the latest standards and the change in the testing methods to obtain the parameters and all the above values subjected to Standards tolerances.

SRW ETICS/EIFS Board - SRW ET-128

Thermal Resistance Table

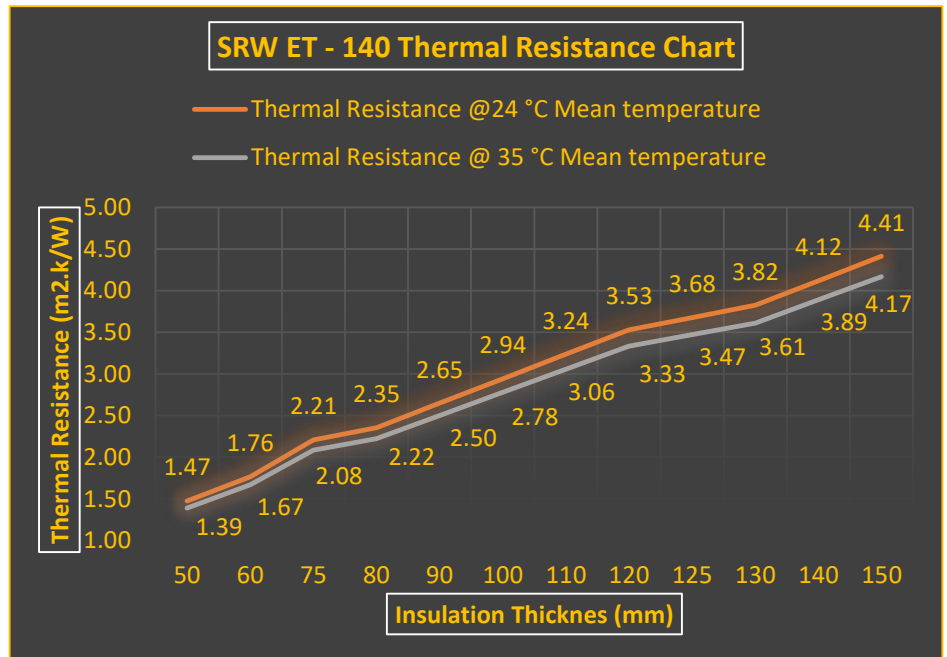
Thickness (mm)	Mean Temperature	
	@ 24 °C m ² .K/W	@ 35 °C m ² .K/W
50	1.52	1.43
60	1.82	1.71
75	2.27	2.14
80	2.42	2.29
90	2.73	2.57
100	3.03	2.86
110	3.33	3.14
120	3.64	3.43
125	3.79	3.57
130	3.94	3.71
140	4.24	4.00
150	4.55	4.29
160	4.85	4.57
170	5.15	4.86



SRW ETICS/EIFS Board - SRW ET-140

Thermal Resistance Table

Thickness (mm)	Mean Temperature	
	@ 24 °C m ² .K/W	@ 35 °C m ² .K/W
50	1.47	1.39
60	1.76	1.67
75	2.21	2.08
80	2.35	2.22
90	2.65	2.50
100	2.94	2.78
110	3.24	3.06
120	3.53	3.33
125	3.68	3.47
130	3.82	3.61
140	4.12	3.89
150	4.41	4.17





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