

SoftR® Duct Wrap FRK

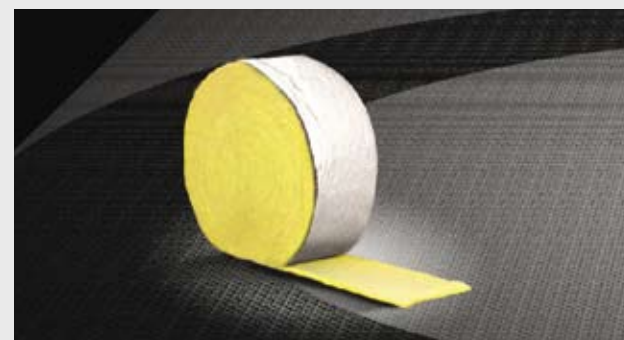
SOFTR® Duct Wrap FRK is a blanket of glass fiber insulation laminated to FRK vapor retarder facing. A 2” (50mm) stapling and taping flange is provided on one edge. It is installed on the exterior of metal ductwork.

Performance Data

Operating Temperature Limit 40F (4°C) – 250°F (121°C)

Features and Benefits

- Condensation Control
- Assured Thermal Performance
- Enhanced Comfort Control
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 50% Certified Recycled Content



Thermal Performance R-Value

Nominal Thickness in. mm	Out-of-Package R (RSI) Value ¹	Installed Thickness ² in. mm	Installed R (RSI) Value ^{1,2}
Type 75 – 0.75 pcf (12 kg/m³)			
1 1/2 (38)	5.1 (0.90)	1 1/8 (29)	4.2 (0.74)
2 1/8 (56)	7.4 (1.30)	1 3/8 (42)	6.0 (1.06)
3 (76)	10.0 (1.76)	2 1/4 (57)	8.3 (1.46)
Type 100 – 1.00 pcf (16 kg/m³)			
1 1/2 (38)	5.6 (0.99)	1 1/8 (29)	4.5 (0.79)
2 (51)	7.4 (1.30)	1 1/2 (38)	6.0 (1.06)
Type 150 – 1.50 pcf (24 kg/m³)			
1 1/2 (38)	6.0 (1.06)	1 1/8 (29)	4.8 (0.85)
2 (51)	8.0 (1.41)	1 1/2 (38)	6.4 (1.13)

¹hr·ft²·°F/Btu (m²·°C/W) at 75°F (24°C) mean temperature.
²Assumes 25% compression of insulation.

Specification Compliance

- ASTM C 1290
- ASTM C 1136
- ASTM C 553
- NFPA 90A/90B



Reflect-R™

Reflect-R is a reflective insulation used to insulate the exterior of metal ductwork. It consists of aluminum facing on each side with a 3/4” fiberglass core. Its pure aluminum facing reflects 97% of radiant heat gain. It allows you to achieve an R-8 with a 3/4” spacer and single layer of Reflect-R.

Features and Benefits

- Faster onsite installation due to various tab options
- Fiberglass core reduces the risk of fire spread as compared to non-fiberglass core reflective insulations
- Reduces noise and vibration
- Assured Thermal Performance
- Condensation Control

Thermal Performance R-Value

FGF-tested per ASTM C-518 “Installed R Value” Material + Air Space + Air Firm		
3/4” Thick		
No Air Space		5.2
3/4” rigid spacers		8.0

Reflect-R Technical Information

R-Value	3/4” Reflect-R up to 8.2 per ASTM C-518
Flame Spread	25 per ASTM E-84
Smoke Development	38 per ASTM E-84

Specification Compliance

- ASTM C-518
- ASTM E-84
- ASTM C-1371

BALANCING ECONOMIC GROWTH, ENVIRONMENTAL STEWARDSHIP AND SOCIAL PROGRESS

Sustainability at Owens Corning is a core business strategy. Our company embraces the increasingly recognized definition of sustainability as meeting the needs of the present without compromising the future.

Our approach to sustainability balances economic growth, environmental stewardship and social progress. We bring our philosophy to life in three ways:

- Greening our operations – reducing the impact our manufacturing operations have on the world
- Greening of our products – addressing the environmental footprint of our products throughout their life cycles
- Accelerating Energy Efficiency Improvements in the Built Environment – working to increase the penetration of energy efficiency solutions around the world

We believe this strategy energizes our people and creates growth opportunities for our customers.

For more about sustainability at Owens Corning, visit <http://sustainability.owenscorning.com>



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QuietR® Duct Board

QuietR® Duct Board is a rigid, resin bonded fibrous glass board laminated to FRK vapor retarder facing. When fabricated into duct systems, it combines excellent thermal and acoustical properties with substantially airtight transmission of air when all joints are sealed with UL 181A listed closures.

Performance Data

Operating Temperature Limit 40°F (4°C) – 250°F (121°C)
Moisture Vapor Transmission .02 per max
Maximum Air Velocity 6,000 fpm (30.5 m/sec)

Features and Benefits

- Acoustically Efficient
- Assured Thermal Performance
- Virtually Eliminates Air Leakage
- Condensation Control
- Fire-Resistant
- Cleanable Surface
- Durable air stream surface with an EPA-registered antimicrobial
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 55% Certified Recycled Content

Thermal Performance R-Value – ASTM-C518			
	1" (25mm)	1 1/2" (38mm)	2" (51mm)
R-value, hr·ft ² ·°F/Btu (RSI, m ² ·°C/W)	4.30 (0.76)	6.50 (1.15)	8.70 (1.53)
k-value, Btu·in/hr·ft ² ·°F (W/m·°C)	0.23 (0.033)	0.23 (0.033)	0.23 (0.033)
C-value, Btu/hr·ft ² ·°F (W/m ² ·°C)	0.23 (1.32)	0.16 (0.87)	0.12 (0.65)

Acoustical Performance – ASTM-C423							
Type	125	250	500	1000	2000	4000	NRC
Type 475, 1" (25mm)	0.08	0.19	0.69	0.94	0.99	0.98	0.70
Type 800, 1" (25mm)	0.08	0.19	0.69	0.94	0.99	0.98	0.70
Type 800, 1 1/2" (38 mm)	0.12	0.33	0.92	1.04	1.03	1.02	0.85
Type 1400, 2" (51 mm)	0.14	0.72	1.15	1.12	1.06	1.07	1.0

Specification Compliance

NFPA 90A/90B
UL 181/ULC S110
ASTM C 1104
ASTM C 1338; G 21; G 22
UL 723/CAN/ULC S102
ICC Compliant

QuietR® Duct Liner Board

QuietR® Duct Liner Board is a bonded board of glass fibers designed to be installed inside sheet metal ductwork or plenums with metal fasteners and adhesives. The air stream surface is protected with a black, high-density, durable glass-mat facing.

Performance Data

Operating Temperature Limit 250F (121C)
Maximum Air Velocity 6,000 fpm (30.5 m/sec)

Features and Benefits

- Acoustically Efficient
- Assured Thermal Performance
- Fire Resistant
- Cleanable Surface
- Durable air stream surface with an EPA-registered antimicrobial
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 55% Certified Recycled Content

Thermal Performance R-Value – ASTM-C518			
Nominal Density pcf (kg/m ³)	1.0 in (25mm)	1.5 in (38mm)	2.0 in (51mm)
3.0 (48)	4.3 (0.76)	6.5 (1.15)	8.7 (1.53)

Acoustic Performance – ASTM-C423							
Thickness (in)	125	250	500	1000	2000	4000	NRC
1.0 (25)	0.07	0.26	0.54	0.85	0.96	0.90	0.65
1.5 (38)	0.11	0.43	0.80	0.98	1.01	1.01	0.80
2.0 (51)	0.15	0.59	1.06	1.12	1.05	1.10	0.95



Specification Compliance

ASTM C 1071
ASTM C 1338; G 21; G 22
NFPA 90A/90B
ICC Compliant
California Title 24
SMACNA
ASHRAE 62-2001



QuietR® Rotary Duct Liner

QuietR® Rotary Duct Liner is a bonded blanket of short glass fibers designed to be installed inside sheet metal ductwork and plenums with metal fasteners and adhesives. The air stream surface is protected with a black, high-density, durable glass-mat facing.

Performance Data

Operating Tempature Limit 250F (121C)
Maximum Air Velocity 6,000 fpm (30.5 m/sec)

Features and Benefits

- Acoustically Efficient
- Assured Thermal Performance
- Fire-Resistant
- Cleanable Surface
- Durable air stream surface with an EPA-registered antimicrobial
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 55% Certified Recycled Content

Thermal Performance R-Value – ASTM-C518			
Thickness in. (mm)	R-Value	Roll Length	
1/2" (13)	2.2	100	
1" (25)	4.2	100	
1 1/2" (38)	6.3	50	
2" (51)	8	50	

Acoustic Performance – ASTM-C423							
Thickness (in)	125	250	500	1000	2000	4000	NRC
1/2" (13)	0.04	0.12	0.39	0.64	0.78	0.74	0.50
1" (25)	0.05	0.30	0.60	0.87	0.98	1.05	0.70
1 1/2" (38)	0.05	0.47	0.85	1.01	1.01	1.01	0.85
2" (51)	0.12	0.66	1.04	1.08	1.04	1.07	0.95

Specification Compliance

ASTM C 1071
ASTM C 1338; G 21; G 22
NFPA 90A/90B
ICC Compliant
California Title 24
SMACNA
ASHRAE 62-2001

QuietR® Textile Duct Liner

QuietR® Textile Duct Liner is a bonded blanket of long glass fibers designed to be installed inside sheet metal ductwork and plenums with metal fasteners and adhesives. The air stream surface is protected with a black, high-density, durable glass-mat facing.

Performance Data

Operating Temperature Limit 250°F (121°C)
Maximum Air Velocity 6,000 fpm (30.5 m/sec)

Features and Benefits

- Acoustically Efficient
- Assured Thermal Performance
- Fire Resistant
- Cleanable Surface
- Durable air stream surface with an EPA-registered antimicrobial
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 55% Certified Recycled Content

Thermal Performance R-Value – ASTM-C518				
Product Type and Thickness	0.5 in (13 mm)	1.0 in (25mm)	1.5 in (38mm)	2.0 in (51mm)
Type 150	–	3.8 (0.67)	5.8 (1.02)	7.7 (1.36)
Type 200	2.0 (0.35)	4.1 (0.72)	6.0 (1.06)	8.0 (1.41)
Type 300	2.2 (0.38)	4.3 (0.76)	–	–

Acoustic Performance – ASTM-C423								
Product	Thickness (in)	125	250	500	1000	2000	4000	NRC
Type 150	1.0 (25)	0.8	5.1	.49	.72	.86	.91	.60
	1.5 (38)	1.6	.36	.61	.83	.90	.92	.70
	2.0 (51)	.20	.53	.79	.94	.95	.97	.80
Type 200	0.5 (13)	.10	.15	.27	.49	.66	.77	.40
Type 300	0.5 (13)	.08	.16	.30	.51	.69	.84	.40
	1.0 (25)	.07	.26	.54	.85	.96	.90	.65



Specification Compliance

ASTM C 1071
ASTM C 1338; G 21; G 22
NFPA 90A/90B
ICC Compliant
California Title 24
SMACNA
ASHRAE 62-2001



Fiberglas™ 700 Series Insulation

700 Series insulation board is made with inorganic glass fibers and a thermosetting resin binder formed into flexible, semi-rigid or rigid rectangular boards. They are available in plain and faced form in multiple densities and thicknesses. They are used to insulate ductwork, equipment, vessels, chillers, etc. – they are not designed for use on the interior of ductwork or anywhere that the insulation will be exposed to an air stream.

Performance Data

Operating Temperature Limit
Unfaced: 0 – 450F (18C – 232C)
Faced: unfaced side 0 – 450F (18C – 232C)
faced side 20F – 150F (29C – 66C)

Features and Benefits

- Thermal Efficiency
- Structural Integrity
- Excellent Acoustical Properties
- At least 55% Certified Recycled Content

Type	Density	(inches)	(mm)	K-value
701	1.50 pcf	1.0-4.0	25-102	0.24
CW-225	2.25 pcf	1.5-4.0	38-102	0.23
703	3.00 pcf	1.0-4.0	25-102	0.23
704	4.20 pcf	1.5-2.0	38-51	0.23
705	6.00 pcf	1.0-3.0	25-76	0.23
707	7.00 pcf	1.0-2.0	25-51	0.23

Type	Facing	Density	(in)	(mm)	NRC
701	Plain	1.50 pcf	1	25	0.70
701	Plain	1.50 pcf	2	51	0.90
CW-225	Plain	2.25 pcf	2	51	1.00
703	Plain	3.00 pcf	1	25	0.70
703	Plain	3.00 pcf	2	51	1.00
705	Plain	6.00 pcf	1	25	0.65
705	Plain	6.00 pcf	2	51	0.95
CW-225	FRK	2.25 pcf	2	51	0.80
703	FRK	3.00 pcf	1	25	0.65
703	FRK	3.00 pcf	2	51	0.75
705	FRK	6.00 pcf	1	25	0.55
705	FRK	6.00 pcf	2	51	0.60
703	ASJ	3.00 pcf	1	25	0.65
703	ASJ	3.00 pcf	2	51	0.75
705	ASJ	6.00 pcf	1	25	0.50
705	ASJ	6.00 pcf	2	51	0.65

Specification Compliance

ASTM C553
ASTM C 612
ASTM C 795
ASTM C1136
CAN/CGSB-51.10
NFPA 90A/90B
California Insulation Quality Standards CA-T052

QuietZone® Spiral Duct Liner

QuietZone® Spiral Duct Liner is an acoustical and thermal insulation for round sheet metal ductwork and plenums from 10" to 48" OD. The air stream surface is protected with a black, high-density, durable glass-mat facing and inhibits the penetration of the insulation by dirt, dust and pollutants.

Performance Data

Maximum Temperature Limit (Internal) 250°F (121°C)
(External) 150°F (66°C)
Maximum Air Velocity 6,000 fpm (30.5 m/sec)

Features and Benefits

- Acoustically Efficient
- Assured Thermal Performance
- Fire-Resistant
- Cleanable Surface
- Durable air stream surface with an EPA-registered antimicrobial
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children and Schools CertifiedSM
- At least 55% Certified Recycled Content



Thermal Performance R-Value – ASTM-C518			
R-Value: ft ² ·°F/BTU (RSI: m ² ·°C/W)	1" (25mm)	1 1/2" (38mm)	2" (51mm)
	4.3 (0.76)	6.5 (1.15)	8.7
k-value: BTU·in/hr·ft ² ·°F (l W/m ² ·°C)	0.23 (0.033)	0.23 (0.033)	.23

Acoustical Performance – ASTM C423							
Thickness	125	250	500	1000	2000	4000	NRC
1"	0.08	0.19	0.69	0.94	0.99	0.98	0.70
1 1/2"	0.12	0.33	0.92	1.04	1.03	1.02	0.85
2"	0.14	0.72	1.15	1.12	1.06	1.07	1.00

Specification Compliance

NFPA 90A/90B
UL 181
ASTM C 1104
ASTM C 1338; G 21; G 22
UL 723
ICC Compliant