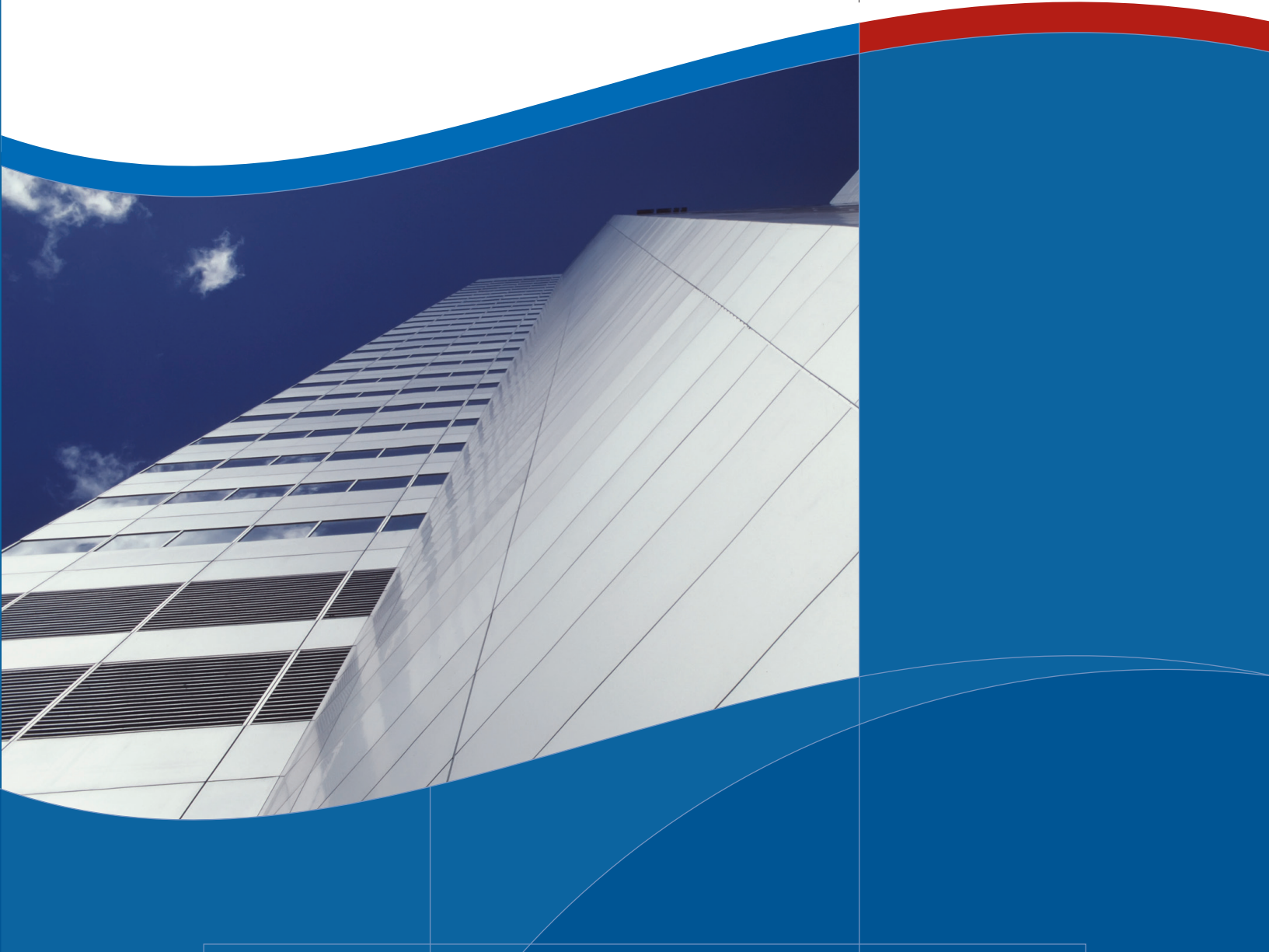




Fiber Glass Insulation

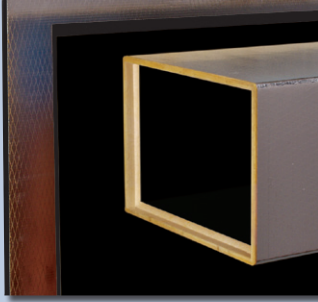


Air Handling Systems Product Guide

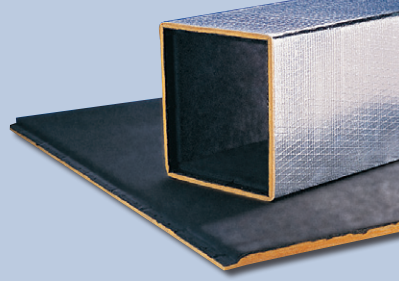


	Icon Key
	Thermal
	Acoustical
	Fire Resistant
	Moisture Control
	Recycled Content
	Formaldehyde-free™ Products for improved indoor environmental quality

For more information, visit us at
specJM.com



**Mat-Faced Micro-Aire®
FIBER GLASS DUCT BOARD**



**SuperDuct® RC System
COATED, HIGH-PERFORMANCE
AIR DUCT BOARD**



**EnviroAire™
FORMALDEHYDE-FREE™ FIBER GLASS
DUCT BOARD**



Fiber glass duct board for fabrication into rectangular ductwork, the airstream side of the duct board features a fiber glass mat for use at velocities up to 5000 fpm (25.4 m/sec.).

- Type 475 & Type 800

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
5000 fpm (30.5 m/sec)



SuperDuct RC Air Duct Board is the primary component of the system, which also consists of SuperSeal® coating products. SuperDuct RC features an airstream surface protected with JM's exclusive Reinforced Coating System that combines state-of-the-art Permacote acrylic coating with a flexible glass cloth reinforcement.

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
6000 fpm (30.5 m/sec)



EnviroAire Formaldehyde-free™ Fiber Glass Duct Board* is produced from durable glass fibers, bonded with a thermosetting resin. EnviroAire Duct Board is ideal for residential HVAC applications to quietly and efficiently distribute cool or warm air for greater room-to-room comfort.

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
6000 fpm (30.5 m/sec)

**Limited availability. Contact your local JM sales representative for further information.*

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

in	mm	Type	(hr•ft ² •°F)/Btu	m ² •°C/W
1	25	475	4.3	0.76
1½	38	800	6.5	1.15
2	51	800	8.7	1.53

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

in	mm	Type	(hr•ft ² •°F)/Btu	m ² •°C/W
1	25	475	4.3	0.76
1½	38	800	6.5	1.15
2	51	800	8.7	1.53

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

in	mm	(hr•ft ² •°F)/Btu	m ² •°C/W
1½	38	6.5	1.14

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

Type	in	mm	125	250	500	1000	2000	4000	NRC
475	1	25	0.07	0.25	0.63	0.90	0.97	1.00	0.70
800	1½	38	0.10	0.42	0.91	1.04	1.04	1.04	0.85
800	2	51	0.17	0.63	1.10	1.05	1.04	1.06	0.95

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

Type	in	mm	125	250	500	1000	2000	4000	NRC
475	1	25	0.04	0.27	0.71	0.96	1.03	0.99	0.75
800	1½	38	0.11	0.45	0.96	1.07	1.06	1.00	0.90
800	2	51	0.14	0.81	1.10	1.07	1.03	1.01	1.00

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

Type	in	mm	125	250	500	1000	2000	4000	NRC
800	1½	38	0.11	0.45	0.96	1.07	1.06	1.00	0.90

Recycled Content:
20% post consumer

Recycled Content:
20% post consumer

UL 181, Class 1 Rigid Air Duct Listed
ASTM G21 and G22
Conforms to ASHRAE 62
ICC Compliant
NFPA 90A and 90B

UL 181, Class 1 Rigid Air Duct Listed
NFPA 90A and 90B
Conforms to ASHRAE 62
ASTM G21 and G22
Canada: CGSB 51.10
CAN/ULC-S110M

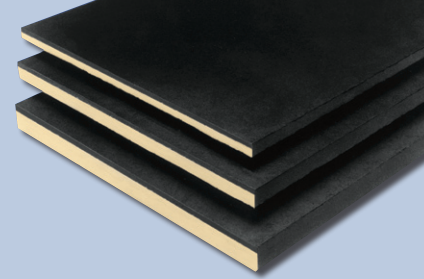
UL 181, Class 1 Rigid Air Duct Listed
NFPA 90A and 90B
Conforms to ASHRAE 62
ASTM G21 and G22
ICC Compliant
Canada: CGSB 51.10
CAN/ULC-S110M



Linacoustic® RC
FIBER GLASS DUCT LINER WITH
REINFORCED COATING



LinaTex™
TEXTILE FIBER DUCT LINER



Permacote® Linacoustic® R-300
RIGID FIBER GLASS PLENUM LINER BOARD



DESCRIPTION

Flexible duct liner insulation with the airstream surface protected with JM's exclusive Reinforced Coating System that combines state-of-the-art Permacote acrylic coating with a flexible glass cloth reinforcement.

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
6000 fpm (30.5 m/sec)

LinaTex is a flexible duct liner made from continuous glass fibers bonded with a thermosetting resin. The airstream surface is protected with a black, high-density glass mat. The mat offers exceptional durability in exposure to air velocity in systems operating at velocities up to 5000 fpm (25.4 m/sec).

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
5000 fpm (25.4 m/sec)

R-300 is a rigid fiber glass plenum liner board with the durable acrylic Permacote surface treatment.

Operating Temperature Limit:
250°F (121°C)

Maximum Air Velocity:
6000 fpm (30.5 m/sec)

PERFORMANCE CHARACTERISTICS

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

in	mm	(hr•ft²•°F)/Btu	m²•°C/W
½	13	2.2	0.39
1	25	4.2	0.74
1½	38	6.3	1.11
2	51	8.0	1.41

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

Type	in	mm	(hr•ft²•°F)/Btu	m²•°C/W
300	½	13	2.6	0.45
300	1	25	4.2	0.74
200	½	13	2.4	0.42
150	1	25	3.7	0.65
150	1½	38	5.5	0.97

**THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.**

in	mm	(hr•ft²•°F)/Btu	m²•°C/W
1	25	4.3	0.76
1½	38	6.3	1.11
2	51	8.7	1.53

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

in	mm	125	250	500	1000	2000	4000	NRC
½	13	0.07	0.20	0.44	0.66	0.84	0.93	0.55
1	25	0.08	0.31	0.64	0.84	0.97	1.03	0.70
1½	38	0.10	0.47	0.85	1.01	1.02	0.99	0.85
2	51	0.25	0.66	1.00	1.05	1.02	1.01	0.95

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

Type	in	mm	125	250	500	1000	2000	4000	NRC
300	½	13	0.03	0.14	0.30	0.55	0.72	0.84	0.45
300	1	25	0.08	0.27	0.62	0.86	0.92	0.91	0.65
200	½	13	0.06	0.13	0.28	0.52	0.71	0.74	0.40
150	1	25	0.09	0.24	0.50	0.70	0.86	0.87	0.60
150	1½	38	0.18	0.37	0.68	0.90	1.02	0.93	0.75

**ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)**

in	mm	125	250	500	1000	2000	4000	NRC
½	13	0.04	0.26	0.69	1.00	1.07	1.02	0.75
1	25	0.14	0.52	1.01	1.07	1.03	0.97	0.90
1½	38	0.26	0.73	1.10	1.10	1.04	1.03	1.00

Recycled Content:
20% post consumer
5% pre consumer

Recycled Content:
66%–83% pre consumer
dependent on material type

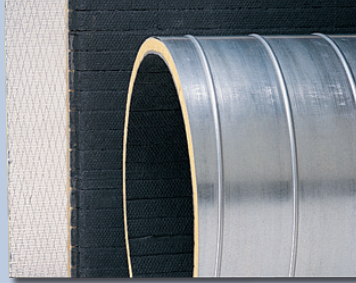
Recycled Content:
20% post consumer

SPECIFICATION
COMPLIANCE

ASTM C1071, Type I, Flexible
ASTM G21 and G22
ASTM D5116-State of Washington
SMACNA Application Standards for Duct Liners
NAIMA Fibrous Glass Duct Liner Installation
NFPA 90A and 90B, FHC 25/50
ICC Compliant
Conforms to ASHRAE 62
California Title 24
Canada: CGSB 51-GP-11M
CAN/ULC S102-M88

ASTM C1071, Type I, Flexible
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ASTM C1071, Type II
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ASTM D5116-State of Washington
SMACNA Application Standards for Duct Liners
NAIMA Fibrous Glass Duct Liner Installation
NFPA 90A and 90B, FHC 25/50
Conforms to ASHRAE 62
California Title 24
NYC MEA # 353-93-M
Canada: CGSB 51.10
CAN/ULC S102-M88



Spiracoustic Plus™ System
FIBER GLASS LINERS FOR ROUND METAL DUCTS



A group of fiber glass duct liners for round ducts of virtually any size. Products have the durable acrylic Permacote surface treatment.

- VSD for very small diameters
- SD for small diameters
- LD for large diameters

Operating Temperature Limit:
 250°F (121°C)

Maximum Air Velocity:
 6000 fpm (30.5 m/sec)

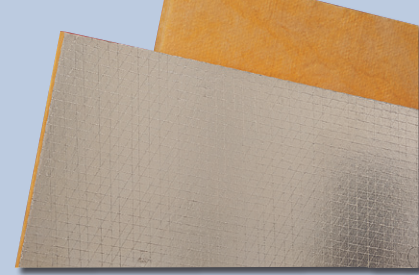


Microlite® XG™
FORMALDEHYDE-FREE™ FIBER GLASS
DUCT WRAP



Fiber glass duct wrap insulation used on the exterior of rectangular and round metal ducts as thermal insulation.

Operating Temperature Limit:
 250°F (121°C)



800 Series Spin-Glas®
FIBER GLASS DUCT AND
EQUIPMENT INSULATION



800 Series Spin-Glas can be used in plain or faced form to insulate heating ducts and equipment. 800 Series Spin-Glas is ideal for application on commercial and industrial heating, air conditioning, power and process equipment.

Operating Temperature Limit:
 Unfaced: 450°F (232°C)
 Faced: unfaced side 450°F (232°C)
 faced side 150°F (66°C)

THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.

in	mm	(hr•ft²•°F)/Btu	m²•°C/W
1	25	4.3	0.76
1½	38	6.4	1.13
2*	51	8.4	1.48

*2 in. is not stocked; special order only.

ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)

in	mm	125	250	500	1000	2000	4000	NRC
1	25	0.05	0.21	0.71	1.01	1.07	1.04	0.75
1½	38	0.10	0.39	1.02	1.08	1.04	1.00	0.85
2	51	0.17	0.63	1.10	1.05	1.04	1.06	0.95

Recycled Content:
 20% post consumer

THERMAL PERFORMANCE
R-VALUE @ 75°F (24°C) MEAN TEMP.

INSTALLED

Type	in	mm	(hr•ft²•°F)/Btu	m²•°C/W
75	1½	38	4.2	0.74
75	2	51	5.6	0.99
75	2.3	58	6.5	1.15
75	3	76	8.3	1.46
100	1½	38	4.5	0.79
100	2	51	6.0	1.06
150	1½	38	4.7	0.83
150	2	51	6.3	1.11

OUT OF PACKAGE

Type	in	mm	(hr•ft²•°F)/Btu	m²•°C/W
75	1½	38	5.2	0.92
75	2	51	6.9	1.22
75	2.3	58	8.0	1.41
75	3	76	10.3	1.81
100	1½	38	5.6	0.99
100	2	51	7.4	1.30
150	1½	38	6.0	1.06
150	2	51	8.0	1.41

Recycled Content:
 20% post consumer
 5% pre consumer

THERMAL CONDUCTIVITY ("k")
(ASTM C 177 AND C 518)

Type	in	mm	Btu•in/(hr•ft²•°F)	W/m•°C
812	1½-4	38-102	0.24	0.035
813	1½-4	38-102	0.23	0.033
814	1-4	25-102	0.23	0.033
815	1-2½	25-64	0.22	0.032
817	1-2	25-51	0.22	0.032

ASTM C423, TYPE "A"
MOUNTING, FREQUENCY (HZ)

Type	in	mm	125	250	500	1000	2000	4000	NRC
812	1	25	0.07	0.24	0.63	0.87	1.00	1.02	0.70
812	2	51	0.24	0.68	1.10	1.13	1.10	1.07	1.00
813	1	25	0.08	0.27	0.69	0.95	1.05	1.02	0.75
813	2	51	0.19	0.88	1.15	1.14	1.10	1.07	1.05
814	1	25	0.06	0.29	0.75	0.99	1.04	1.02	0.75
814	2	51	0.24	1.00	1.11	1.08	1.06	1.05	1.05
815	1	25	0.03	0.32	0.80	1.04	1.05	1.05	0.80
815	2	51	0.27	0.91	1.11	1.09	1.09	1.09	1.05
817	1	25	0.10	0.35	0.85	1.04	1.05	1.03	0.80
817	2	51	0.38	0.93	1.10	1.07	1.07	1.07	1.05

ASTM C1071 Air Erosion Test / UL 181
 ASTM G21 and G22
 ASTM E84, FHC 25/50
 NFPA 90A and 90B
 ASTM D5116-State of Washington
 ASHRAE 62
 ULC S102-M88

ASTM C553
 • Type II – Type 75, 100 and 150
 • Type III – Type 150
 ASTM C1290
 ASTM C1139, Type II
 • Grade I – Type 75 Faced
 • Grade II – Type 100 Faced
 • Grade III – Type 150 Faced
 ASMT E84, FHC 25/50 – FSK Facing
 ASTM C1136, Type II – FSK Facing
 NYC MEA # 40-75-M
 Canada: CGSB 51-GP-11M
 CAN/ULC S102-M88

ASTM C612, Type 1A and 1B
 • (813, 814, 815, 817)
 ASTM C553, Type III
 • (812 Only)
 ASTM C795
 ASTM C1136
 • Type I – AP Facing
 • Type II – AP and FSK Facing
 ASTM E84, UL 723, NFPA 255
 FHC 25/50, NFPA 90A and 90B
 HH-I-558C, Form B, Type I, Class 7
 • (812, 813, 814, 815)
 MIL-I-24244C
 NRC 1.36
 Canada: CGSB 51-GP-10M
 CAN/ULC S102-M88



5% Pre-consumer
20% Post-consumer
SCS RECycled Content SYSTEMS
SCS-ML-C1073



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(800) 654-3103
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AHS-187 05/10 (Replaces 10/08)

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