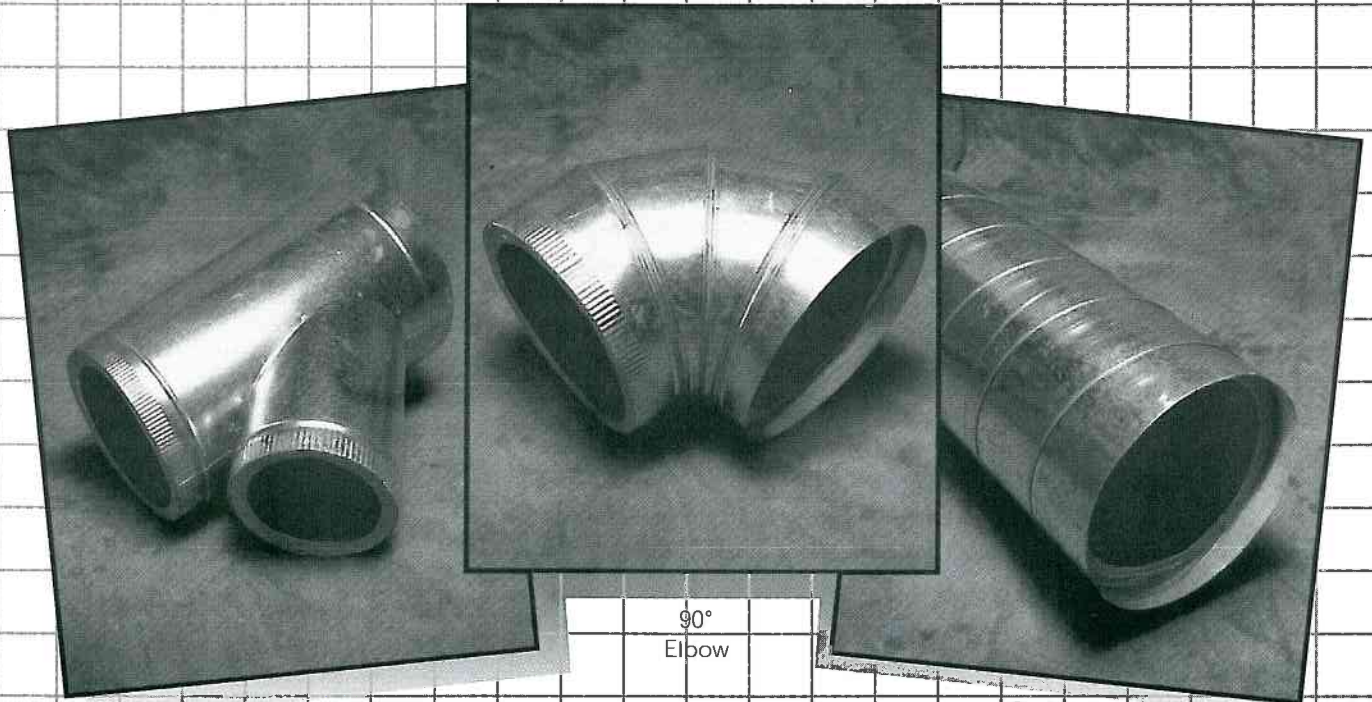


# CASCO

**COATED**  
**CIRCLINER II™**  
PRODUCT DATA



Wye Fitting

90°  
Elbow

Spiral Pipe

## DESCRIPTION

CIRCLINER II is a round, molded fiberglass duct liner specifically designed to provide superior thermal and acoustical performance for round metal duct systems.

CIRCLINER II has a tough, durable internal surface which isolates the fiberglass substrate from the airstream to preclude penetration of the insulation by dust, dirt and other pollutants. This sealed airstream surface coating reduces the potential for mold, bacteria or microbial growth.

CIRCLINER II meets IAQ concerns by including an EPA registered biocide in its durable airstream surface (MSDS available on request).

The special surface treatment of CIRCLINER II enhances the cleanability of the interior of the duct system using methods and equipment described by NAIMA Pub. AH122, cleaning fibrous glass insulated duct systems.

## AVAILABLE SIZES

Diameters (ID) 1" Wall Thickness: 6", 7", 8", 10", 12", 14", 16", 18", 20"

Diameters (ID) 1 1/2" Wall Thickness: 6", 7", 9", 11", 13", 15", 17", 19"

Standard Length: 72", both 1" and 1 1/2"

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## TECHNICAL INFORMATION

Density = 4 lbs. per cubic foot

Max. Air Velocity 2400 fpm per UL181

Thermal Performance @ 75° Mean

Wall Thickness	1"	1 1/2"
R-Value	4.3	6.5
K-Value	0.23	0.23
C-Value	0.23	0.16

Fire Hazard Classification per UL723 – Class 1  
Flame Less Than 25, Smoke Less Than 50

Sound Absorption (Hz)

Frequencies	125	250	500	1000	2000	4000	NRC
Coefficients	.32	.60	.82	.98	.99	.89	.85

Mold Growth per per UL181 – Will Not Support or Promote

Fungi Resistance per ASTM G21 – Meets Requirements

Bacteria Resistance per ASTM G22 – Meets Requirements

## FEATURES/BENEFITS

1. Superior thermal insulation, eliminates condensation problems.
2. Low friction loss, smooth surface, better air flow.
3. Meets code requirements. UL listed, meets NFPA 90A and 90B.
4. Quiet operation, excellent noise reduction.
5. Lightweight, easily fabricated, minimizes labor costs.
6. Permanent, resists heat, mold, fungi and bacteria and is unappealing to vermin.
7. Tough interior surface, cleanable.
8. Secured in place without mechanical fasteners.

## USES

For insertion in standard size round sheet metal ducts or pipes for heating, ventilating, or air conditioning systems for the purpose of reducing heat transfer, maintaining temperatures, eliminating condensation. No special vapor barrier is required for cool air ducts, because the metal duct is the vapor barrier when the insulation is on the inside. The CIRCLINER II insulation absorbs noise of equipment and quiets rushing air sounds; it also reduces duct-borne sound between rooms, contributing to privacy. Round pipe lined with CIRCLINER II may be used in place of square ductwork, either exposed, underground, or in concealed areas.

## SPECIFICATION

All supply and return air ducts where indicated shall be lined with 1"\* thick CIRCLINER II as manufactured by CASCO and must meet the requirements of NFPA 90A as a duct liner.

\*Also available in 1-1/2" thickness.

## APPLICATION

Full sections of CIRCLINER II shall be inserted into the matching pipe or duct providing a tight, friction fit. All leading edges of CIRCLINER II shall be coated with an approved edge treatment sealant.

Fittings shall be made by neatly cutting or mitering sections of CIRCLINER II. The interior surface of the metal fittings shall be coated with a fire retardant adhesive prior to inserting the cut sections of CIRCLINER II. After all sections are installed in the fitting, all edges shall be painted with an approved edge treatment sealant.