

# Stars Management DMCC

# SUBMITTAL ANDEK FLASHBAND

# **FLASHBAND**

# Self-Adhesive Flashing



FLASHBAND is a self-adhesive, aluminum faced bitumen backed sealing strip. It is a quick, efficient and cost effective method of flashing, sealing, and repair that produces a lasting protection in all climates.

FLASHBAND bonds to a wide range of building materials and provides a permanent watertight seal that improves with time. It is safe in use and can be applied by hand, unlike traditional flashings, which require special equipment for cutting, forming and fixing.

FLASHBAND consists of aluminum foil, coated with a layer of self-adhesive bituminous mastic of approximately 1.3 mm thickness, and supplied in rolls interleaved with release paper.

#### **OUTSTANDING FEATURES**

- Bonds to a wide range of substrates
- \_ \_ Provides an instant seal
- \_ Easily applied by hand pressure only
- No special equipment required for cutting, forming or fixing
- \_ Available in 2 finishes, BrightAluminum & Graphite Gray
- \_ \_ Can be overlapped
- \_ Available in widths ranging from2" to 28"

#### USES

FLASHBAND may be used to flash felted, mastic asphalt and other bituminous roofing treatments; asbestos cement, concrete & slated roofs; aluminum and galvanized sheeted roofs; parapet walls, upstands & soakers; joints between brickwork and timber studding prior to tile hanging. FLASHBAND may be used to repair lead flashings, felt roofs, asbestos cement sheets, and cracked roof tiles and slates. FLASHBAND seals glazing bars and roof lights in greenhouses, conservatories, and general roofing work, around projections through roofs (cold pipes, roof lights, extractor vents), and as a protective wrapping of insulation covered pipes and tanks.

#### **PRECAUTIONS**

FLASHBAND is without hazard in storage or when properly used, except that cuts could be sustained from careless handling of the release paper.

#### SURFACE PREPARATION

Clean all surfaces to remove grease

or loose debris. If the surface is porous or has a rough or uneven profile, apply FLASHBAND primer before fixing the flashing strip. Porous surfaces should be slightly dampened with water before priming.

#### APPLICATION

Apply FLASHBAND primer with a water dampened paintbrush to a line slightly in advance of where the FLASHBAND is to be applied. Work neatly and avoid splashes. Allow the primer to dry, with protection from rainfall and frost if necessary. Surfaces such as mineralized felt or textured brick may require 2 coats, the 2nd when the 1st has dried.

To avoid any creasing when unrolling FLASHBAND, separate the FLASHBAND from the release paper, holding the latter firmly against the roll; unroll the required length of FLASHBAND; temporarily replace the release paper, then cut both strips to the required length. Remove the release paper, place the FLASHBAND in position and press onto the dry surface. Smooth into position with a hand roller or a rounded piece of wood.

SPECIFICATIONS	
Pot Life:	Not applicable
Shelf Life:	6 months
Thickness:	50 mils aluminum; 52 mils gray
Packaging:	Variable widths; 33' long rolls
Color:	Bright Aluminum; Graphite Gray

# **FLASHBAND**



# Self-Adhesive Flashing

#### **SPECIAL POINTS**

**Overlapping: Allow 1 inch for over**laps of FLASHBAND and ensure that they are firmly combined to retain the waterproof qualities.

Cold Weather: In cold weather, application will be made easier by warming the surface of the substrate with a gas torch or flowlamp where it is safe to do so. FLASHBAND cannot reliably be applied where the surface temperature is less than 40° F.

**Overpainting: FLASHBAND can be** overpainted with conventional decorative paints, though a little staining of the latter may occur at the edges.

Appearance: As with most covering materials supplied in roll form, some batch to batch variation in color of the Graphite Gray FLASHBAND can occur; and if aesthetic appearance is important, users are advised to check that all rolls are of the same color.

**Gaps between the surfaces: Gaps** greater than 1/8" should be filled prior to the application of FLASHBAND.

Flashing to corrugated sloping surfaces: Cut the corrugated sheets at an angle so that they closely fit to the wall, fix them to the supports in the normal way,

then apply any asphalt-based sealant as a fillet seal to the wavy joint between the wall and the corrugated sheeting. Screw a flat, rigid sheet of a suitable water-resistant material (i.e., marine grade plywood) about 4 to 8 inches wide, depending on the pitch and corrugation of the roof, onto the corrugated surface, allowing it to butt up against the adjoining wall. FLASHBAND can now be used to flash from the wall onto the flat

Stepped Profiles: Taking one step at a time, and working from the bottom, lap on the vertical faces by

Joints in Brickwork & Blockwork:
To prevent FLASHBAND puncturing during application, surface depressions must be filled prior to its use.
Surfaces Curved in 2 Directions:
FLASHBAND must be folded or tailored to fit, and not dressed into or carried around such profiles.

Fillets: The fitting of FLASH-BAND to an internal angle will be made easier and more reliable if the angle is eased by the prior fitting of a timber or cement/sand fillet as appropriate to the location.

#### RESTRICTIONS

Chemical Attack: FLASHBAND may

embrittle if encased in a cementitious mix. FLASHBAND is not resistant to attack by acidic and alkaline liquors.

Joint Movement Accommodation:
Fully bonded FLASHBAND will not accommodate appreciable joint movement. However, for small movements, apply a strip of release paper, 2 inches narrower than the FLASHBAND, along the joint prior to the application of the FLASHBAND. For larger movement, polyethylene foam can be laid proud into the joint so enabling the web of supported FLASHBAND to accept the movement.

**Traffic: FLASHBAND is not intended** to withstand foot or vehicular traffic.

#### DISPOSAL

May be disposed of either by landfill topping or by incineration in an authorized incinerator.

#### **STORAGE**

Store in a dry place within the temperature range of 40-90°F.

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# MATERIAL SAFETY DATA SHEET U.S. Department of Labor Occupational Safety & Health Administration

# **FLASHBAND**

**SECTION 1 - IDENTIFIERS** 

MANUFACTURER: Andek Corporation

TRADE NAME: Flashband

CHEMICAL FAMILY: Polyethylene Modified Asphalt/Aluminum

#### **SECTION 2 - HAZARD IDENTIFICATION & EMERGENCY OVERVIEW**

Emergency Overview: No significant hazard other than skin cuts from sharp edges during handling.

Effects of Overexposure:

SKIN: Paper cuts may occur from handling edges.

EYES: Sunlight reflection may cause glare..

BREATHING: Highly improbable. SWALLOWING: May cause choking.

SECTION 3 - COMPOSITION

COMPONENT CAS # APPROX % TLV

 Aluminum
 7429-90-5
 4.0

 Silicone Treated Paper
 7440-21-3
 6.0

 Ethylene Modified Asphalt
 8052-42-4
 90.0

KNOWN CARCINOGENS OR MUTAGENS - TYPE & DEFINITION - None known

#### **SECTION 4 - FIRST AID MEASURES**

SKIN: If cut by edges, clean wound thoroughly, disinfect and apply surgical dressing.

EYES: Wash with plenty of water and call a physician.

BREATHING: Seek medical attention.

SWALLOWING: Keep calm and seek immediate medical attention.

#### **SECTION 5 - FIRE & EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): Non flammable

FLAMMABLE LÌMITS: N/A EXTINGUISHING MEDIA: CO<sup>2</sup>

SPECIAL FIRE FIGHTING PROCEDURES: As for asphalt or paper.

UNUSUAL FIRE & EXPLOSION HAZARDS: At high combustion temperatures, the mass will flow, aluminum ignites at 1100°F.

DECOMPOSITION PRODUCTS: Oxides of aluminum, carbon, and silicon.

#### SECTION 6 - SPILL OR LEAK PROCEDURES

Re-roll and re-use if possible.

#### **SECTION 7 - HANDLING & STORAGE**

Stack rolls in a safe and stable manner, according to good warehouse practices.

#### SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

RESPIRATORY PROTECTION (SPECIFY TYPE): Unnecessary.

EYE PROTECTION: Goggles, safety glasses.

SKIN PROTECTION: Cotton gloves.

OTHER PROTECTIVE EQUIPMENT: Coveralls, safety boots and hard hat if necessary.

PERSONAL HYGIENE: Wash thoroughly after use.

#### **SECTION 9 - PHYSICAL DATA**

BOILING POINT (F)

VAPOR PRESSURE

VOLUME VAPOR DENSITY (AIR=1)

SOLUBILITY IN WATER

N/A

SPECIFIC GRAVITY (H<sup>2</sup>O=1)

1.25

N/A

PERCENT, VOLATILE BY

N/A

N/AEVAPORATION RATE (N.B.A.=1)

Insolubleph (5% SLURRY)

7

APPEARANCE & ODOR - Aluminum roll, black mass and paper backing with asphaltic odor.

#### **SECTION 10 - REACTIVITY DATA**

STABILITY: Stable.

INCOMPATABILITY (MATERIALS TO AVOID): None known. HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

ACUTE ORAL TOXICITY
ACUTE INHALATION TOXICITY
ACUTE DERMAL TOXICITY
ACUTE DERMAL TOXICITY
SENSITIZATION
MUTAGENICTIY
CARCINOGENICITY
NO Data Available; Not Likely To Be Toxic

#### **SECTION 12 ECOLOGICAL INFORMATION**

BIODEGRADATION

TOXICITY TO FISH

TOXICITY TO AQUATIC INVERTEBRATES

TOXICITY TO MICRO ORGANISMS

ATMOSPHERIC OXIDATION OF VOLATILES

BIOACCUMULATION

TOXICITY TO PLANTS

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

No Data Available; Not Likely To Cause Ecological Harm

#### SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal environmental laws.

#### **SECTION 14 - TRANSPORT INFORMATION**

Proper Shipping Name: Caulk

This material is not regulated by the D.O.T.

## **SECTION 15 - REGULATORY INFORMATION**

See reference data for individual components.

#### **SECTION 16 - OTHER INFORMATION (HMIS RATING)**

Health 1
Flammability 0
Physical Hazard 0
Personal Protection E

Disclaimer: Andek Corporation (Andek) believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the issue date of this Material Safety Data Sheet (MSDS). However, because the conditions of handling, use, and storage of these materials are beyond Andek's control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations contained in this MSDS are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

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FLASHBAND REVISION

**REVISION DATE: FEBRUARY 2012** 

Bonds instantly to provide a permanent watertight seal that grows stronger over time. Flashband is ideal for new construction, maintenance and repair projects

#### **FEATURES**

- Bonds to a wide range of substrates
- Provides an instant seal
- •Easily applied by hand pressure only

  No special equipment required for cutting or forming

  Available in two finishes, Gray and Bright Aluminum
- \* Can be overlapped
- \* Available in a wide range of widths

Flashband is a self-adhesive, aluminum faced bituman backed sealing tape. It's a quick, efficient and cost effective method of flashing, sealing and repair that produces a lasting protection in all climates.

Flashband bonds to a wide range of building materials and provides a permanent watertight seal that improves with time. It is safe in use and can be applied

#### **ROOFING**

- Seals around chimneys, vents and skylights
- •Reinforces and seals joints and penetrations
- Provides a cap seal in tile and slate roofs
- •Repairs holes and perforations in metal roofing
- Seals and bridges gaps and seams
- •Repairs modified or asphalt built up roofs
- •Protects eaves from water intrusion due to ice damming

#### GLAZING

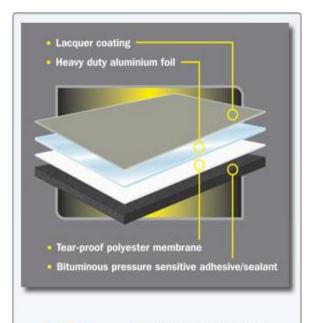
Protects and seals glazing bars and skylights

#### DRAINAGE

•Repairs and seals scuppers and down spouts

#### **OTHERS**

- Protect insulation, pipes and tanks
- Seals around vents in walls and roofs
- •Seals around curbs and HVAC ductwork





Superior heat resistance Flashband's new layered structure and formulation are designed to withstand extreme temperatures



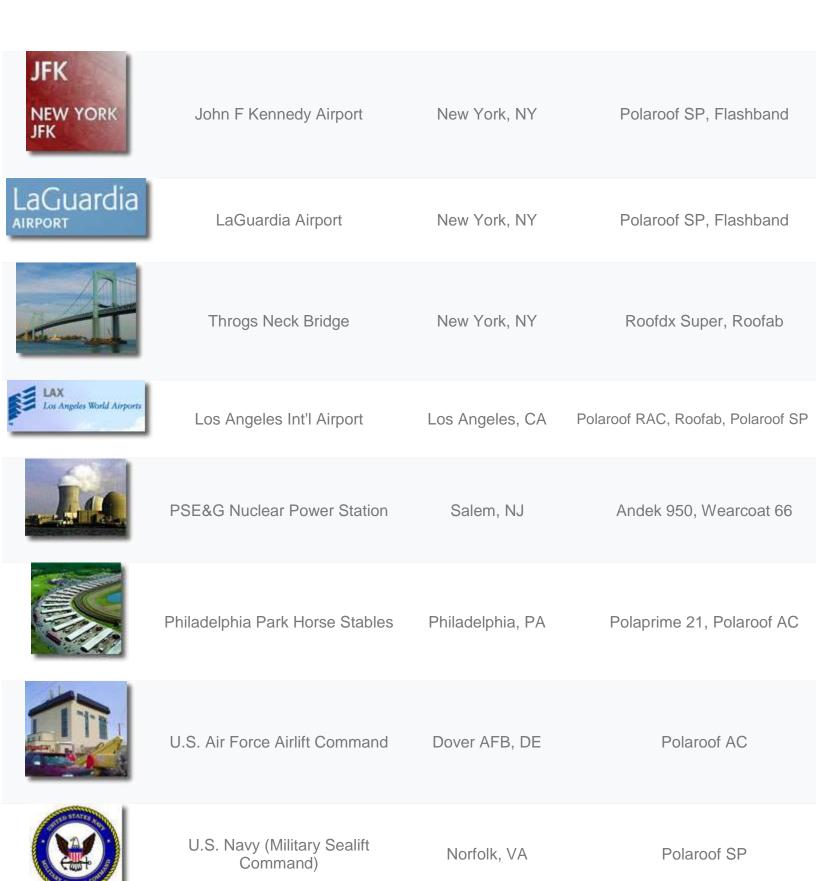
#### Stronger membrane

Flashband's three-ply construction means it is tear and impact resistant. This structure makes it more resilient, stronger and longer lasting to provide it even better watertight seal.



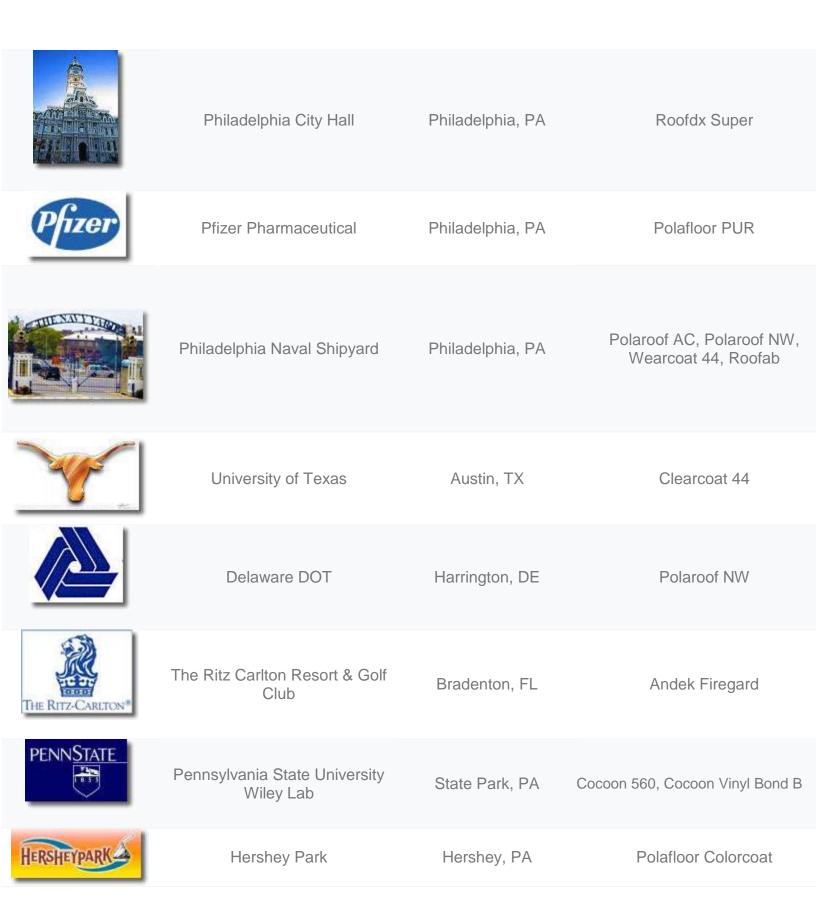
# **PROJECT REFERENCES**

	PROJECT	LOCATION	ANDEK PRODUCT USED
# H	U.S. Naval Research Lab	Washington DC	Polaroof NW
	Reagan National Control Tower	Reagan National Airport, Washington, DC	Polaroof AC, Wearcoat 66
	Arch Street Presbyterian Church	Philadelphia, PA	Polaprime 21, Polaroof AC
	Trump Building Wall Street (Metal roof)	New York, NY	Polaprime 21, Polaroof AC
INTERSTATE PENNSYLVANIA 476	PA DOT-Interstate 476	Pennsylvania	Polagard AG
BOEING	McDonnell Douglas (Boeing Aerospace)	New Jersey	Polaroof RAC

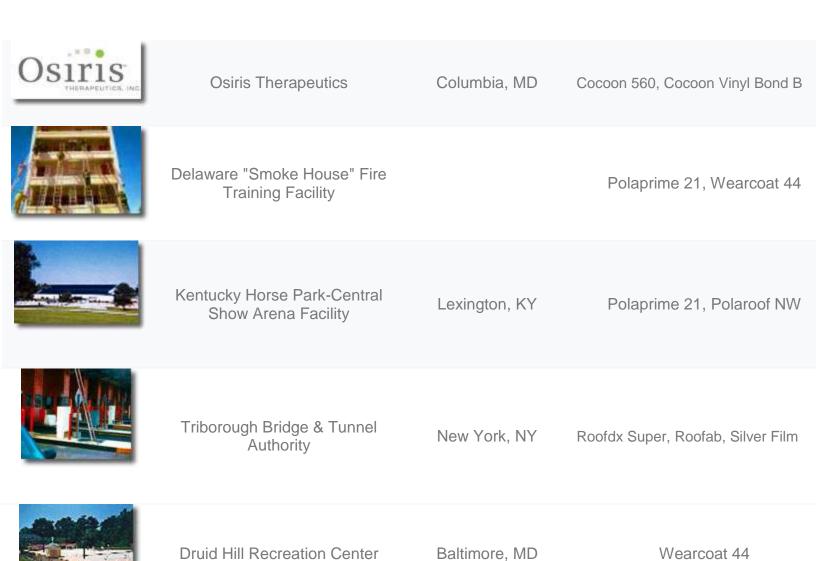


	Walt Disney World	Orlando, FL	Roofdx Super, Polaroof RAC, Roofab, Polaroof AC, Polaroof NW, Clearcoat 44
	The Moshulu	Philadelphia, PA	Polaprime 21, Roofab, Polaroof RAC
78	Interstate 78	Pennsylvania	Polagard AG
Department of Veteranic Affairs	Veteran's Administration Hospitals	Delaware & Palo Alto, CA	Polaroof RAC, Polaroof SP
	Jazzland Amusement Park	New Orleans, LA	Polagard AG
NASA	NASA Goddard Space Flight Center	Greenbelt, MD	Polaroof RAC, Roofab
OKHEALTH OF HEALTH	National Institutes of Health	Bethesda, MD	Cocoon 560, Cocoon Vinyl Bond B
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MANAGEMENT AND ADDRESS OF THE PARTY OF THE P			
	National Italian Foundation HQ	Washington D.C.	Polagard Fibrelastic
	Independence Blue Cross/Blue Shield HQ	Philadelphia, PA	Roofdx Super, Polafloor PUR
	U.S. Navy - Military Sealift Command	Norfolk, VA	Polaroof SP
Picatinny	U.S. Army	Picatinny Arsenal, NJ	Polajoint Super
<b>©NORAMCO</b> ™	Noramco Pharmaceuticals	Wilmington, DE	Polaprime 21, Polaroof NW,Clearcoat 44
	U.S. Coast Guard	Cape May, NJ	Polaroof SP, Polaroof RAC, Roofab
	Bank of America	Baltimore, MD	Polaprime 21, Roofdx Super, Polaroof RAC, Roofab
14	Blue Cross/ Blue Shield	Columbia, SC	Polagard AG





Report No.: 24327-0 Order No.: AE24327

Client Ref. No.: P.O. #387977

Date: November 7, 2007

#### DSET LABORATORIES

A Division of Atlas Material Testing Technology LLC 45501 North 47" Avenue Phoenix, Arizona 85087-7042 USA Phone (623) 465-7356 Toll Free (800) 255-3738 Fax (623) 465-9409 www.atlaswsg.com

# TOTAL EMITTANCE TEST REPORT

prepared for:

## ANDEK CORPORATION

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presented by:

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This report contains 4 pages

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TEST INSTRUMENTS GROUP

ATLAS MATERIAL TESTING TECHNOLOGY

ATLAS MATERIAL TESTING TECHNOLOGY GmbH

SOUTH FLORIDA TEST SERVICE

DSET LABORATORIES





#### ANDEK CORPORATION

Report No.: 24327-0 Order No.: AE24327 Date: November 7, 2007

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## TOTAL EMITTANCE TEST REPORT

# 1.0 INTRODUCTION

This report presents results of total emittance measurements on nine roofing coating draw downs coded:

Polaroof NW
Polaroof RAC
Silver Film
Wearcoat 66
Wearcoat 44
Andek Firegard
Polaroof SP
Flashband Aluminum
Polaroof AC

## 2.0 TEST METHODS AND PROCEDURES

Near-Normal Infrared reflectance measurements were performed in accordance with ASTM E408-71 (reapproved 2002), Method A. A Gier Dunkle Instruments Infrared Reflectometer Model DB 100 was utilized for the measurements.

Inside the detector portion are two semi-cylindrical cavities. One of the cavities is heated by an electrical heater and the other stabilizes at approximately room temperature. Thus, the two cavities are maintained at different temperatures. As the cavities rotate, the sample is alternately irradiated at 13 Hz. A vacuum thermocouple views the sample through an optical system that focuses through slits in the ends of the cavities. The detector receives energy emitted by the sample and energy reflected by the sample. Only the reflected energy contains an alternating component as the sample is alternately irradiated by the hot and cold cavities. An amplifier is synchronized with the cavity rotation to pass only the desired alternating signal, which is then rectified and filtered. The zero and gain are set with standards of known emittance. The calibration is rechecked at several intervals during the measurement. The Gier Dunkle Infrared Reflectometer is calibrated using high and low emittance standards. The standards were calibrated at and obtained from the National Physical Laboratory in England. The emittance value for the glass standard equals 0.89. The emittance value for the mirror standard equals 0.01.



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# TOTAL EMITTANCE TEST REPORT

# 2.0 TEST METHODS AND PROCEDURES (cont'd)

Near-Normal Emittance for the client's specimens was calculated from Kirchhoff's Relationship where:

$$\rho + \alpha + \tau = 1$$
,  $\alpha = \epsilon$ 

Since the specimens have no transmittance in the far infrared, the preceding equation reduces to

$$\rho + \epsilon = 1$$
 and  $1 - \rho = \epsilon$ 

# 3.0 OBSERVATIONS, DEVIATIONS, AND WAIVERS

The measurements were performed on the coated side of the specimens. The values reported represent the average of at least four measurements.



# ANDEK CORPORATION

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# TOTAL EMITTANCE TEST REPORT

# 4.0 RESULTS

Specimen Code	Far IR Reflectance (ρ) Measured	Near Normal Emittance (ε) Calculated
Polaroof NW	.07	.93
Polaroof RAC	.41	.59
Silver Film	.57	.43
Wearcoat 66	.08	.92
Wearcoat 44	.07	.93
Andek Firegard	.06	.94
Polaroof SP	.06	.94
Flashband Aluminum	.99	.01
Polaroof AC	.06	.94