

07500/BAT
BuyLine 7099



ram-Tough

Elastomeric & Conventional Built-up Roofing Systems





DESIGNED AND ENGINEERED TO WORK

COVER STORY

Paramount Plaza, a 52 story skyscraper originally designed by Emery Roth, is featured on the cover photograph. Recently, during a major renovation program conceived by Der Scutt Architect, it was decided a new roof was needed.

Syneraction, Inc. was retained as the roofing consultant. Syneraction developed a system selection procedure as well as specifications, details and bid documents for the system chosen.

The reroofing project presented a challenging array of performance considerations and job conditions: these included unusually high winds, frequent thermal shock loading, asbestos containment of the existing roofing materials, heavy maintenance foot traffic, high levels of environmental pollution among all of the other extremes highrise roofs are generally subjected to.

The review of reroofing options included a variety of single ply



PARAMOUNT PLAZA
1633 BROADWAY & 50TH
NEW YORK CITY

sheets, preformed modified bitumen sheets and conventional BUR. Each of these options presented a compromise of safety or performance. One system stood beyond compromise: Barrett RAM-TOUGH Elastomeric BUR in a protected membrane configuration.

Barrett's engineered materials have dramatically increased BUR's performance with Elastomeric Polymer-Modified Bitumens and Spunbond Polyester Reinforcements. These components provide a seamless roof unsurpassed in performance by any other roofing system as acknowledged by an increasing number of roofing consultants nationwide.

BUR's dependability and redundancy combined with Barrett's engineered components provide a roofing system that is simply the highest performing, toughest roof available. The ultimate high performance option by design.

From the roof of 1633 Broadway twelve other recently completed Barrett projects are visible. Three of these buildings are in the cover photograph. They exemplify the diversity and quality of Barrett RAM-TOUGH Roofing and Waterproofing Systems.

ram-Tough

THE UNCOMPROMISING ROOFING SYSTEM

A roof must be considered a part of a building's thermal envelope - a living, breathing part of the structure that is affected by what happens inside and out. It must work in perfect harmony with all the forces of nature, structural dynamics of the building, and the constraints and imperfections imposed by man. Barrett RAM-TOUGH Elastomeric Built-Up Roofing Systems were engineered to meet this challenge.

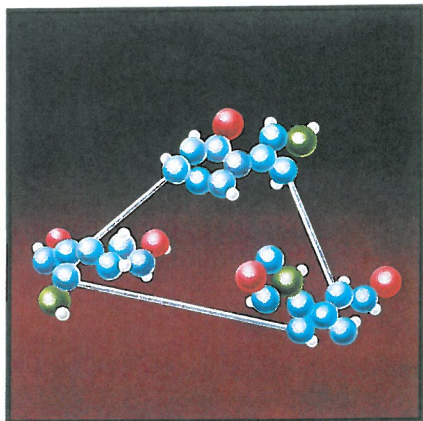
RAM-TOUGH systems are a hybrid of two different roofing philosophies: BUR and single-ply. BUR design has always depended upon the multi-layered fabric concept for strength and safety. Single-ply, representing the other end of the spectrum, has strength and safety built into the sheet. The uncompromising RAM-TOUGH

systems provide the features and benefits of both parents by combining the principle of fabric reinforcements and waterproofing bitumen from BUR with the concept of engineered elastomers found in single-ply roofs. RAM-TOUGH's multiple reinforcement layers provide exceptional strength and forgiveness. The elastomeric bitumen and polyester reinforcements increase the safety factor of membrane integrity and work to dissipate strain energy relentlessly.

Representing the optimum balance between BUR and single-ply philosophies, RAM-TOUGH elastomeric BUR systems were designed and engineered to work in harmony with all the uncompromising forces imposed upon them.

ram-Tough

RAM-TOUGH ELASTOMERIC MOPPING BITUMEN



RAM-TOUGH elastomeric bitumens are thoroughly engineered thermoplastic elastomer materials manufactured from highly select bitumen and Shell Kraton® SEBS rubber polymer.

The polymerization of the Bitumens form a strong, microscopic elastic network of rubberized strands with tough styrene endblocks. This creates a rugged reinforcing structural network that is filled with waterproofing bitumen.

Significantly enhanced adhesive and cohesive properties help prevent blistering, delamination and wind damage. The unique "cold flow" self-healing properties help make it unparalleled by single-ply systems.

Simply put, Barrett puts more into the bitumen so you get so much more out

The result: An uncompromising waterproofing adhesive.

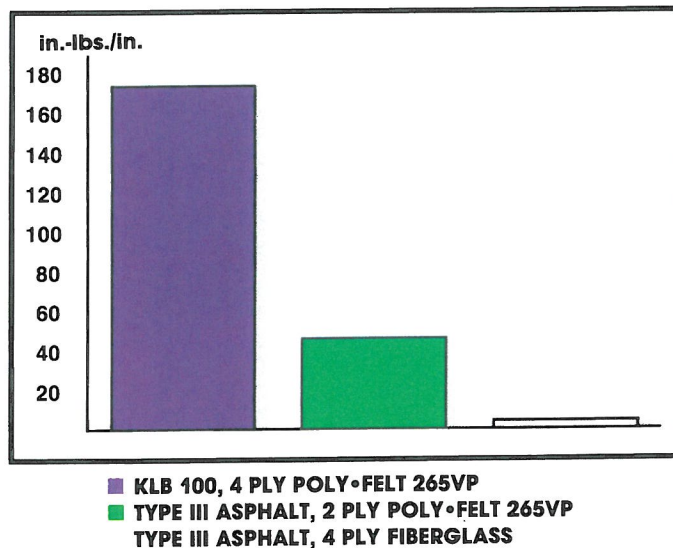
THE SYNERGISTIC EFFECT

USABLE LOW TEMPERATURE STRAIN ENERGY @ 0°F

Cold temperature load-strain testing best simulates the grueling realities of life at the top. It provides the best indicative measure of a membrane's "toughness" and its resistance to compromise, at this most demanding temperature extreme.

The performance features of RAM-TOUGH components make words like "Tough" and "Uncompromising" take on new character and meaning.

The dramatic performance of KLB and 4-ply POLY•FELT exhibits 43 times greater usable strain energy than a 4-ply fiberglass built-up roof. The economical 2-ply POLY•FELT with Type III asphalt provides more than 12 times the usable strain energy of a 4-ply fiberglass assembly.



POLY•FELT—POLYESTER BUR REINFORCEMENT

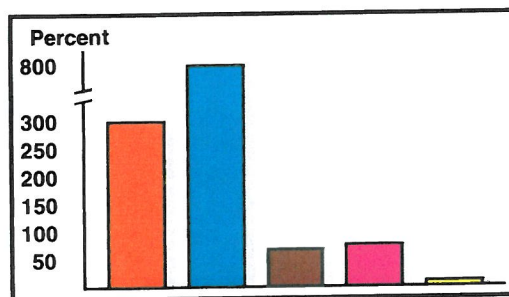
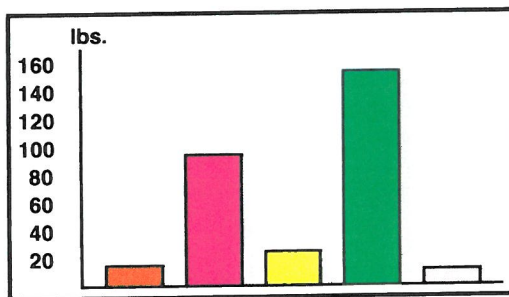
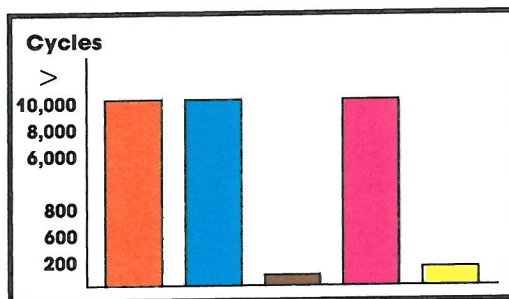
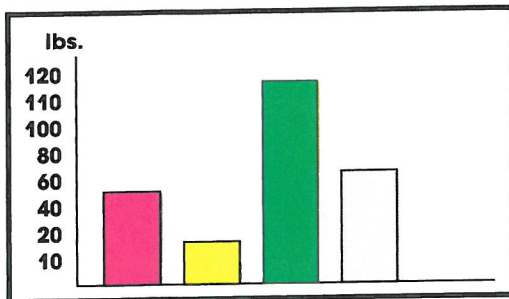


POLY•FELT's continuous filament spunbond manufacturing process provides an isotropic fabric with the greatest strength-to-weight ratio of any nonwoven fabric.

POLY•FELT is bonded with a highly cross-linked acrylic binder and contains no low-melt temperature binder fiber resulting in excellent thermal stability. A unique condensing process during manufacture allows optimum bitumen "bleed-thru" saturation creating a completely monolithic waterproof membrane.

POLY•FELT uses no mineral or talc surfacing material to interfere with adhesion. User-friendly properties decrease the overall dependency of workmanship skills. Lightweight 10 SQ. 37 lb. rolls reduce handling and installation labor costs.

POLY•FELT is an uncompromising partner, providing a vital link in Barrett's evolutionary Hot Built-Up Roofing Systems.



COLOR KEY FOR CHARTS

COMPONENTS:

- KLB-100
- TYPE IV FIBERGLASS
- POLY•FELT 265VP
- TYPE III ASPHALT

PUNCTURE RESISTANCE

Test Procedure: A 5/16 in. diameter beveled end steel rod driven through sample at 12 in./min. @ 70°F

Ply for ply, POLY•FELT more than triples the amount of protection glass felts afford against fastener "backout," invasive threats and other aggressive damage.

In 2 ply system format with asphalt, POLY•FELT's protection level is still almost double that of a 4-ply fiberglass system.

FATIGUE LIFE

Bitumen Tests: 1mm gap min. width cycled to 2mm gap Fabric Tests: ASTM D-813

Microscopic cracks occur when the roof mat is consistently stressed and deformed especially over gaps such as insulation joints. Thermal shock accelerates and increases this stress.

Fatigue is the process of repeated "crack bridging" deformations causing these flaws to grow into failure-causing cracks.

Fatigue Life is the number of repeated deformations required to bring about product failure.

The superior fatigue life of RAM-TOUGH ensures extended roof life.

TRAPEZOIDAL TEAR STRENGTH

Test Procedure: ASTM D-1117, M.D.

The trapezoidal tear strength is a propagated tear test utilizing a "notch cut" in the material sample and measuring lbs/per inch resistance until failure occurs. POLY•FELT 265VP offers almost 4 times the tear resistance of glass. POLY•FELT & Type III asphalt enhance and increase the systems resistance by approximately 70%. Fiberglass exhibits a reverse reaction.

MAXIMUM ELONGATION

Bitumen Tests: ASTM D-2523 Mod., Tested on Instron Model No. 1122 Fabric Tests: ASTM D-1682

The elongation properties of the Barrett Elastomeric Bitumen even exceed those of most single-ply membranes and is over 10 times greater than Type III asphalts.

POLY•FELT elongation capability is 25 times greater than Type IV fiberglass roofing felts. RAM-TOUGH ELASTOMERIC COMPONENTS work together as a system to stretch with building shifts, and then recover to its original shape.

COLD WEATHER FLEXIBILITY

180 Degree bend over one inch mandrel after all samples conditioned for 24 hours @ 10°F and tested @ 10°F.

The superlative cold weather flexibility of RAM-TOUGH components are but one more of their uncompromising characteristics that add up to extended roof life. Similar results are obtained with freeze/impact tests. Even with 3,000 hour accelerated aging tests (ASTM G-53 equivalent to approx. 20 years exposure), the RAM-TOUGH KLB still passes the cold weather mandrel bend tests.

SYSTEMS:

- EPDM
- TYPE III ASPHALT, 2 PLY POLY•FELT 265VP
- KLB-100, 4 PLY POLY•FELT 265VP
- TYPE III ASPHALT, 4 PLY FIBERGLASS

ram-Tough

BARRETT RAM-TOUGH SYSTEMS TO MEET ANY NEED AND BUDGET.

For use on flat or low slope roofing and waterproofing applications.

SELECTOR CHART

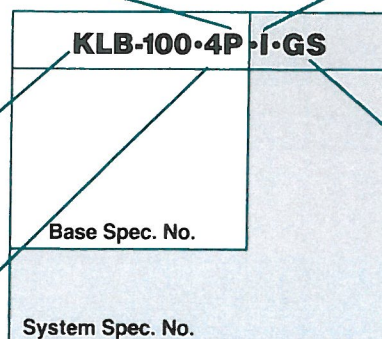
The systems subtly differ from one to another; their blend of high performance and longlife differs from all other roofing systems.

		SUBSTRATE				SURFACE OPTIONS								WARRANTY (YEARS)	
Base Specification Number	Type & Number of Ply Sheets	Insulated Deck	Nailable Deck	Non-Nailable Deck	Reroof Recover	Gravel/Slag	Protected Membrane Roof	Mineral Granules	Ultra White Coating	Ultra Silver Coating	RAM Cap Sheet	Roofscape	Smooth Surface	*Material Components	*Labor and Material
KLB-100•4P	4 Polyester	•	•	•	•	•	•	•	•	•	•	•		10	25
KLB-100•3P	3 Polyester	•	•	•	•	•	•	•	•	•	•	•		10	20
KLB-100•2P	2 Polyester	•	•	•	•	•	•	•	•	•	•		•	10	15
KLB-100•1P	1 Polyester		•	•	•			•	•	•	•		•	5	5
KLB-100•4PG	4 Poly-Glass	•	•	•	•	•	•	•	•	•	•	•		10	15
KLB-100•3PG	3 Poly-Glass	•	•	•	•	•	•	•	•	•	•		•	10	12
KLB-100•2PG	2 Poly-Glass	•	•	•	•	•	•	•	•	•	•		•	10	10
KLB-100•4M	1 Polyester & 3 Fiberglass	•	•	•	•	•	•	•	•	•	•		•	5	12
KLB-100•3M	1 Polyester & 2 Fiberglass	•	•	•	•	•	•	•	•	•	•		•	5	10
KLB-100•4F	4 Fiberglass	•	•	•	•	•	•	•	•	•	•		•	5	12
KLB-100•3F	3 Fiberglass	•	•	•	•	•	•	•	•	•	•		•	5	10
KLB-100•2F	2 Fiberglass	•	•	•	•	•	•	•	•	•	•			5	5
KLB-100•2MB	2 Modified Bitumen	•	•	•	•		•		•	•				5	10
K-312•4P	4 Polyester	•	•	•	•	•	•	•	•	•	•			10	20
K-312•3P	3 Polyester	•	•	•	•	•	•	•	•	•	•		•	10	15
K-312•2P	2 Polyester	•	•	•	•	•	•	•	•	•	•		•	10	12
T-3•4P	4 Polyester	•	•	•	•	•	•	•	•	•	•			10	15
T-3•3P	3 Polyester	•	•	•	•	•	•	•	•	•	•			5	12
T-3•2P	2 Polyester	•	•	•	•	•	•	•	•	•	•		•	5	10
CP-80•2P or 3P	2 Polyester or 3 Polyester	•	•	•	•	•	•	•	•	•	•			5	10
CP-50•2P or 3P	2 Polyester or 3 Polyester	•	•	•	•	•	•	•	•	•	•			5	5

*Contact Barrett for exact warranty terms and conditions, complete specifications, details and installation procedures.

KEY TO SPECIFICATIONS CODE

TYPE OF FABRIC REINFORCEMENT	
P	= RAM POLY-FELT Polyester
PG	= Polyester-Fiberglass Laminate Sheet
F	= Type IV Fiberglass
M	= Mixed Combinations of Polyester and Fiberglass Fabrics
MB	= SBS Modified Bitumen
TYPE OF BITUMEN	
Elastomeric:	
KLB-100	
K-312	
Conventional:	
T-3 (Types II & III)	
CP-50, CP-80 (Cold Process)	
NUMBER OF PLIES	
1	3
2	4



TYPE OF SUBSTRATE	
I	= INSULATED DECK Any roof deck which has roof insulation
BS	= NAILABLE DECK Any roof deck without roof insulation that can be mechanically fastened
C	= NON-NAILABLE DECK Any roof deck without roof insulation that cannot be mechanically fastened
RR	= REROOF RECOVER Application over an existing roof surface
TYPE OF SURFACING	
GS	= Gravel/Slag
PMR	= Protected Membrane Roof Inverted Roof Insulation
MG	= Mineral Granules
SC	= Smooth Ultra Coating Aluminum or White
CS	= Rubberized Cap Sheet with Mineral Granules
RS	= Roofscape Design
SS	= Smooth Surface

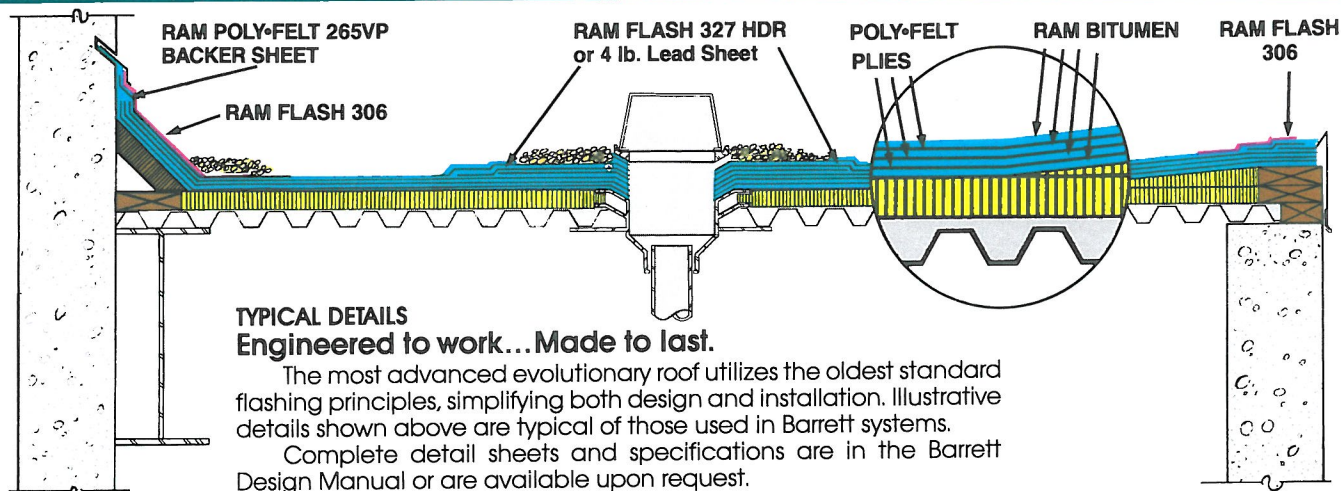
POLY-FELT is exclusively licensed under one or more of the following U.S. Patents: U.S. Patent Nos. 4,521,478; 4,599,258; other patents pending



UL Classified for Class A Roof construction over non-combustible roof decks, File No. R 13092 (N)



Factory Mutual System
Report No. FM J1 1P 3AS-AM
FM J1 1P 4A7-AM



PRODUCT INFORMATION REFERENCE CHART

SYSTEM COMPONENT	DESCRIPTION	USE	UNIT	SIZE	COVERAGE	WEIGHT (Approx.)
RAM-TOUGH KLB-100 Elastomeric Bitumen	An advanced polymer elastomeric mopping bitumen and adhesive. KLB-100 provides high performance bitumen waterproofing. Used with conventional built-up roofing kettles and equipment.	Mopping adhesive	Box Drum	50 lbs. 55 gal.	25 lbs. min. interply; 50 lbs. min. topcoat	2,200 lbs./pallet 550 lbs./drum
RAM-TOUGH K-312 Elastomeric Bitumen	An economical elastomeric mopping bitumen, harder and less flexible than KLB-100 at cold temperatures. The K-312 can be used in any built-up roof system requiring the use of asphalt meeting ASTM-D-312-84 specifications.	Mopping adhesive	Box Drum	50 lbs. 55 gal.	25 lbs. min. interply; 50 lbs. min. topcoat	2,200 lbs./pallet 550 lbs./drum
T-3 ASPHALT (Types II & III)	Standard roofing asphalt complying with all requirements of ASTM-D-312-84, Types II or III, as required, for use with T-3•4P; T-3•3P and T-3•2P specifications.	Roofing	Carton Bulk	12.5 gal.	25 lbs. min. interply; 50 lbs. min. topcoat	100 lbs./carton
RAM C. P. ADHESIVES Nos. 50 & 80	Spray or brush applied cold process modified bitumen asphalt mastics for cold BUR. Solvent based.	Cold process roofing	Can Drum	5 gal. 55 gal.	33 sq. ft./gal. 25 sq. ft./gal. topcoat	44 lbs./can 480 lbs./drum
RAM POLY•FELT 265VP	A nonwoven spunbond high performance polyester fabric, resin stabilized, made from continuous filament, engineered specifically for hot BUR, 5.3 oz./sq. yd.	Roofing plysheet & flashing	Roll	40 in. * x 320 ft.	10 SQ.	37 lbs.
RAM POLY•FELT 165VP	A lighter weight non-woven spunbond polyester fabric, resin stabilized, for economical specialty applications, 4.5 oz./sq. yd.	Roofing plysheet	Roll	40 in. * x 320 ft.	10 SQ.	35 lbs.
RAM POLY•FELT 427VP	An extra-heavy nonwoven spunbond polyester, resin stabilized plysheet for special applications. Required for KLB-100 1P base specifications, 7.4 oz./sq. yd.	Roofing plysheet	Roll	40 in. * x 301 ft.	10 SQ.	52 lbs.
RAM POLY•FELT CP SERIES	Nonwoven spunbond polyester fabric for cold process BUR, available in 3 weights. Not suitable for hot BUR. No. 155CP, 3 oz./sq. yd.; 145CP, 2 oz./sq. yd.; 135CP, 1.5 oz./sq. yd.	Cold process roofing	Roll	40 in. * x 315 ft.	10 SQ.	Varies
RAM-POLY•GLASS 300 PG Ply Sheet	A unique roofing reinforcement fabric combining spunbond heat stabilized polyester with integral woven fiberglass reinforcement. A super strong puncture-resistant reinforcement.	Roofing plysheet & flashing	Roll	3 ft. x 336 ft.	10 SQ.	25 lbs.
GLASS PLY, TYPE IV	An economical glass fiber mat coated with asphalt, meeting the requirements of ASTM-D-2178 Type IV, Underwriters Laboratories Type G-1. Consult Barrett for approved manufacturers.	Roofing plysheet	Roll	3 ft. x 180 ft.	5 SQ.	60 lbs.
RAM BASE PLY NO. 30	A spunbond polyester mat coated with a weathering grade asphalt to provide a non-porous base ply for certain mechanically fastened specifications.	Mechanically fastened base ply	Roll	39 in. x 66 ft.	2 SQ.	60 lbs.
RAM-FLASH 306	A rubberized asphalt sheet with fabric reinforcement and an integral mineral granule surface. Meeting all requirements of CGSB standard 37 GP-56M, type 1a, grade 1. As a roofing system, used as cap in composite with 200 MB base sheet.	Roofing & flashing	Roll	3 ft. x 36 ft.	1 SQ.	85 lbs.

*36 in. width available on special order basis

ram-Tough

RESEARCH AND DEVELOPMENT

Over \$50,000,000 has been spent on research and development of POLY-FELT spunbond polyester reinforcement and Shell Kraton® modified RAM-TOUGH elastomeric bitumens. Barrett backs up 150 years of BUR roofing development and evolution with decades of actual field experience.

A commitment to research and development has produced engineered materials whose work performance and value in roofing systems exceed the superlative benefits of its individual components.



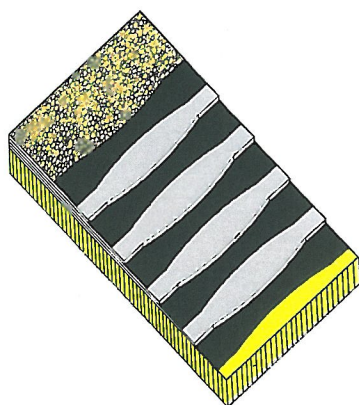
QUALITY CONTROL

Component quality control is rigorously maintained with on-site lab analysis of every production run of RAM-TOUGH elastomeric bitumen and POLY-FELT. Each run is individually certified to be in conformance with specifications prior to packaging.

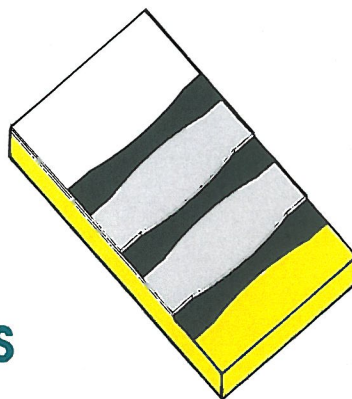
The Barrett label on each component is your assurance that the material has been tested, certified and approved prior to shipping.

PRODUCT INFORMATION REFERENCE CHART

SYSTEM COMPONENT	DESCRIPTION	USE	UNIT	SIZE	COVERAGE	WEIGHT (Approx.)
RAM-FLASH 327HDR	A 60 mil neoprene sheet that is self-extinguishing, impermeable and ozone resistant. Available as cured and uncured material. Compatible with RAM-TOUGH bitumens.	Flashing	Roll	12 in. x 100 ft. 18 in. x 100 ft. 36 in. x 100 ft. 48 in. x 100 ft.	100 sq. ft. 150 sq. ft. 300 sq. ft. 400 sq. ft.	50 lbs. 75 lbs. 150 lbs. 200 lbs.
RAM-CAP-301	A rubberized asphalt cap sheet with mineral granular surface for use as a cap sheet surfacing option only.	Roofing cap sheet	Roll	3 ft. x 36 ft.	1 SQ.	78 lbs.
RAM PRIMER-SURFACER CONDITIONER	Unfilled asphalt primer and surface conditioner meeting ASTM-D-41-70 specifications which is then precut (3:1 ratio) for immediate use. Also available in undiluted RC-70 formulation.	Multi purpose primer	Can Drum	5 gal. 55 gal.	300-500 sq. ft./gal.	45 lbs./can 500 lbs./drum
RAM-MASTIC	A cold applied, trowel grade rubberized asphalt mastic for special purpose applications, flashings and repair. Product has a one year shelf life.	Multi purpose	Can	5 gal.	4 gal./SQ. @ 30 mil	38 lbs.
RAM ULTRA-WHITE MODIFIED LATEX ROOF COATING	An emulsified white coating providing high reflectivity and additional ultraviolet protection. Cools roof surfaces and affords some reduction on cooling equipment loads. Can be brush, roller or spray applied. Not to be used below 45° or over 95°F. Must be protected from freezing in storage. May require 2 applications. Requires use of latex primer.	Roof coating	Can Drum	5 gal. 55 gal.	66 sq. ft./gal. min. per application	42 lbs./can 465 lbs./drum
RAM ULTRA-SILVER ALUMINIZED ROOF COATING	An aluminized reflective coating providing additional ultraviolet protection. Cools roof surfaces and affords some reduction on equipment loads. Can be brush, roller or spray applied. May require 2 applications.	Roof coating	Can Drum	5 gal. 55 gal.	66 sq. ft./gal. min. per application	42 lbs./can 465 lbs./drum
RAM NEOPRENE PIPE BOOT	An economical flashing boot for single pipe penetrations. Will accommodate pipe sizes 1 in.-6 in., offers good tear resistance and reinforcement.	Pipe flashing	Each	13 in. (W) x 7 in. (H)	1 pipe	11 oz.
RAM RETROFIT NEOPRENE PIPE BOOT	A hinged flashing boot that wraps around penetrations and eliminates disconnection. Designed for retrofit work where a flashing boot may not be pulled down over the pipe. Model 13 - ¼ in. to 3 in. opening Model 36 - 3-½ in. to 6 in. opening	Pipe flashing	Each	11 in. (W) x 5 in. (H) 14-½ in. (W) x 5 in. (H)	1 pipe	1-¼ lbs. 1-¼ lbs.
RAM-TOUGH 250/350	Fluid-applied hot melt rubberized asphalt waterproofing systems. Consult specific RAM-TOUGH 250/350 literature for details and specifications.	Water-proofing & Roofing	Box Drum	50 lbs. 55 gal.	1 lb./sq. ft.	2,200 lbs./pallet 550 lbs./drum



TYPICAL SHORT-FORM SPECIFICATIONS



RAM-TOUGH ELASTOMERIC BUILT-UP ROOF KLB-100•4P•I•GS Specification

(Elastomeric Bitumen and 4-Ply POLY•FELT
over Insulation with Gravel Surface)

1.0 GENERAL

- 1.1 DECK: The structural deck must be constructed and installed in accordance with the manufacturer's specifications and accepted roofing industry standards.
- 1.2 INSULATION: The insulation shall be installed according to the manufacturer's specifications in the thickness required. The insulation must be approved by roofing system manufacturer.
- 1.3 SLOPE: To 3" per lineal foot.
- 1.4 WARRANTY: Provide manufacturer's standard twenty year labor and material warranty.

2.0 PRODUCTS

- 2.1 Materials required per 100 sq. ft.
- 2.1.1 RAM POLY•FELT 265VP 4 Plies
- 2.1.2 RAM-TOUGH KLB-100 Elastomeric Bitumen; 100 lbs. approx.
Interply Moppings 50 lbs. approx.
Flood Coat
- 2.1.3 Gravel/Slag 400/300 lbs. approx.
- 2.2 POLY•FELT reinforcement shall be certified by the material supplier to meet all of the specifications and requirements of Barrett POLY•FELT 265VP including weight, thickness, strain energy and high temperature stability.
- 2.3 ELASTOMERIC BITUMEN shall be certified by the material supplier to meet all of the specifications and requirements of Barrett RAM-TOUGH KLB-100 Elastomeric bitumen including elongation, recovery, flexibility, solubility, resilience and viscosity.
- 2.4 Gravel/slag shall meet manufacturer's approval and comply with ASTM D-1863-86 specifications.

3.0 EXECUTION

- 3.1 Over the insulation, install 4 plies of Barrett POLY•FELT 265VP in specified elastomeric bitumen. Starting at the low point of the roof, apply a 10" width, a 20" width, a 30" width sheet and then follow with full 40" sheets, shingle fashion, overlapping each ply 31" in such a manner that at least 4 plies of POLY•FELT cover the insulation at any point.
- 3.2 FLASHINGS, generally, shall be granule surfaced RAM-FLASH 306 with a POLY•FELT 265VP backer sheet, mechanically fastened and installed in accordance with Barrett specifications and requirements (consult Barrett Design Manual for full flashing details).
- 3.3 SURFACING flood coat of elastomeric bitumen shall be applied at approx. 50 lbs. per 100 sq. ft. While hot, embed approximately 400 lbs. of clean roofing gravel or 300 lbs. of slag per 100 sq. ft. of completed roof area.

RAM-TOUGH POLY•FELT BUILT-UP ROOF T-3•2P•RR•SC Specification

(Conventional Asphalt and 2-Ply POLY•FELT
over existing roof with Ultra-White Coating)

1.0 GENERAL

- 1.1 The structural deck and existing roof mat must be sound, properly adhered, clean, dry and have the prior written approval of Barrett. Moisture survey tests are required.
- 1.2 SLOPE: To 3" per lineal foot.
- 1.3 WARRANTY: Provide manufacturers standard ten year labor and material warranty.

2.0 PRODUCTS

- 2.1 Materials required per 100 sq. ft.
- 2.1.1 RAM POLY•FELT 265VP 2 Plies
- 2.1.2 ASTM D-312-84 Asphalt; 50 lbs. approx.
Interply Moppings 60 lbs. approx.
Flood Coat
- 2.1.3 RAM ULTRA REFLECTIVE COATING 3 gal.
- 2.2 POLY•FELT reinforcement shall be certified by the material supplier to meet all of the specifications and requirements of Barrett POLY•FELT 265VP including weight, thickness, strain energy and high temperature stability.
- 2.3 Asphalt shall be certified by the manufacturer to meet ASTM D-312-84, (Type II for slopes up to 1/2" per foot and Type III for slopes up to 3" per foot).
- 2.4 Reflective Coating shall be RAM ULTRA-WHITE (or Silver) elastomeric coating as supplied by roofing system manufacturer.

3.0 EXECUTION

- 3.1 Over the approved existing roof surface, install 2 plies of Barrett POLY•FELT 265VP in specified mopping asphalt. Starting at the low point, apply a 20" width sheet and then follow with a full 40" sheet overlapping each ply by 2", shingle fashion. Repeat process with second ply, starting with a 40" sheet with laps offset 19" from first ply. At least two plies of POLY•FELT shall cover the existing roof surface at every point.
- 3.2 FLASHINGS, generally, shall be granule surfaced RAM-FLASH 306 with a POLY•FELT 265VP backer sheet, mechanically fastened and installed in accordance with Barrett specifications and requirements (consult Barrett Design Manual for full flashing details).
- 3.3 Surfacing flood coat of asphalt shall be dipper poured at approximately 60 lbs. per 100 sq. ft. After asphalt has cured, install RAM ULTRA reflective coating in accordance with manufacturer's directions, at rate of approximately 3 gals. per 100 sq. ft. of completed roof area.

The information and data contained in this brochure are based on information we believe to be true and accurate. The performance properties of materials herein described are derived from data obtained under controlled test conditions. Barrett makes no warranties, express or implied, as to their performance properties under any variations from such conditions in actual construction. Please read all statements, recommendations and suggestions in conjunction with our Terms and Conditions of Sale including those LIMITING WARRANTIES, as set forth in our invoices, Warranty Documents and Applicator Agreements which apply to all goods sold by us. Barrett roofing warranties are issued only when the requirements for the particular warranty program are met.

FOR COMPLETE SPECIFICATIONS AND DETAILS PLEASE CONTACT THE BARRETT COMPANY



BARRETT COMPANY

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Wilmington, Delaware 19808-6124
Phone: 800-647-0100
In N.J.: 908-647-0100
FAX: 908-647-0278



OTHER QUALITY PRODUCTS & SERVICES AVAILABLE FROM THE BARRETT COMPANY

- RAM-TOUGH 250 Waterproofing
- Barrett Specification Reroof Systems
- Barrett Roofscapes - usable Roof Space
- Coatings and Mastics
- Polyester and Fiberglass Fabrics
- Highway Membrane for Bridge and Parking Decks
- Thermography Services
- Architectural and Engineering Services
- Construction Management and Direct Contract Services for Reroofing Projects