Barrett-Holt Roof Drains

CHICAGO, ILL.

NEW YORK, N. Y.

THE BARRETT COMPANY LIMITED, MONTREAL, QUE.

For Complete Details and Specifications on Barrett Built-up Roofing, Waterproofing, Dampproofing and Barrett Rock Wool Insulation, see File Index

BARRETT-HOLT ROOF DRAINS AND VENT CONNECTIONS

For All Types of Roof Construction

In all types of roof construction, it is of paramount importance that roof drains and vent connections be as effective and permanent as the roof coverings they serve. Twenty years of use have proved Barrett-Holt Roof Leader and Vent Connections to be the most dependable on the market.



Type 1 Leader Connection for Flat Roofs

For Complete Specifications and De-tails of Barrett-Holt Roof Drains, see Barrett Reference Manual on Built-up Roofing in File Index.

Types and Details (Specify by Key Number)

Type 1-LG (Slag or Gravel Surface) Type 1-LS (Smooth Surface) Type 1-LM (Metal Covered Gutters)

For flat roofs having interior drainage, where ample working space is provided below roof deck, excepting roofs covered with tile or a similar material.

Type 2-LG (Slag or Gravel Surface) Type 2-LS (Smooth Surface)

For inclined roofs ranging from 12° to 42° and hav-ing interior drainage. The range of variation of the standard connection is from 18° to 28°. For lesser inclines ranging from 12° to 18°, or greater inclines ranging from 28° to 42°, special fittings are furnished. Type 5-LG (Slag or Gravel Surface)

Type 5-LS (Smooth Surface) Type 5-LM (Metal Covered Gutters and Roofs)

For flat roofs having interior drainage, where a sump type of roof connection is desired. Type 6-LG (Slag or Gravel Surface)

Type 6-LS (Smooth Surface)

Type 6-LM (Metal Covered Gutters and Roofs) For flat roofs having interior drainage where work-ing space below the roof decks is restricted, excepting roofs covered with tile or a similar material. Type 6-LT for flat roofs, surfaced with tile or sim-ilar material and having interior drainage.

Type 6-VG (Slag or Gravel Surface)

Type 6-VS (Smooth Surface)

Type 6-VT (Tile or Similar Surface) Type 6-VM (Metal Covered Roofs) For flat roofs for soil and waste vent stacks, flag-poles, supply pipes or any similar fixture carried through the roof deck.

Type 5 Leader Connection for Flat Roofs



Type 6 Leader Connection for Tile Surfaced Roofs

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BIRMINGHAM, ALA.

There is a type for every need Each consists of a roof fitting with roof locking attachment, a component flashing flange and an expansion joint. The types used with inside leader pipes are equipped with a cast-metal tile or gravel stop, a strainer plate, and serviceable cast-metal strainer.

- # 12 22 28 19

Product



Type 6 Leader Connection for Flat Roofs

Type 6 Vent Connection for Flat Roofs

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Barrett Specification Felt and Barrett Specification Roofing Pitch

Barrett-Holt Roof Drains and Vent Connections for all types of roof deck construction

Roof.

THE BARRETT COMPANY

Manufacturers of Roofing, Waterproofing and Other Protective Materials

NEW YORK, N. Y.

CHICAGO, ILL.

THE BARRETT COMPANY, LIMITED, MONTREAL, QUE.

Barrett Products

BUILT-UP ROOFING MATERIALS

(For flat or steep roof surfaces):

Barrett Steep Roof Pitch

Black Diamond Felt and Black Diamond Roofing Pitch Tarred and Asphalt Saturated Felts

S. I. S. Roofing

Barrett Anchor Asphalt Cement

Crystal Asphalt Cement

FLASHINGS (for brick and concrete masonry walls)

Barrett Flashing Blocks and Flashing Forms

Plastic Elastigum Flashings

ROOF DRAINS and VENT CONNECTIONS

WATERPROOFING MATERIALS (for foundations, footings, reservoirs, swimming pools, subways, tunnels, floors, stadia, solid deck railroad and highway bridges, etc.) Barrett Specification Felt and Barrett Specification Waterproofing Pitch Black Diamond Felt and Black Diamond Pitch Waterproofing Fabric INSULATING and BUILDING PAPERS (for sheathing, lining, flooring, etc.) DAMPPROOFING and PROTECTIVE PAINTS and CEMENTS

WOOD PRESERVATIVES SHINGLES and PREPARED ROOFINGS

Asphalt Shingles Roll Roofings

THE BARRETT COMPANY AND BARRETT ROOFING PRODUCTS Between the World and the Weather Since 1854

America's Best Known Roof — the Barrett The Barrett Company

The buildings of America's greatest industries and private enterprises are protected by Barrett Specification Roofs. Examples of world-famous buildings with Barrett Specification Roofs are the Empire State, the Chrysler Building, the Waldorf-Astoria Hotel, Radio City, the Woolworth, all of New York City; the Southwestern Bell Telephone

Co. Administration Building at Kansas City; Aetna Life Insurance Building, Hartford, Conn.; and the Field Building, at Chicago. Repeat business from nationally known organizations, such as telephone companies with more than 400 Barrett Specification Roofs; The American Tobacco Co. with 55; General Baking Co. with 62; International Shoe Co. with 57; Celanese Corp. of America with 33; and a host of others, testifies impressively to the value of the Barrett Specification

The reason for this marked preference for Barrett Specification construction is that engineers know that these roofs will The Barrett Inspector Making far outlast an ordinary roof-that they are actually built to do so-that they are

bonded by the U. S. Fidelity and Guaranty Company against repair or maintenance expense for 20 years. (The Specification Type "A" Roof is bonded for 15 years.) Twenty years is a long period of guaranteed service about all that any owner would be inclined to ask. In the company's files, however, are thoroughly authenti-



This longevity is not surprising when one considers that coaltar pitch is actually preserved by water. The life-prolonging oils **Barrett Specification Roofing** in pitch are protected by the Built of alternate layers of Barrett Specification Pitch and Felt (the top coat of pitch is poured) with an inde-structible wearing surface of gravel or slag same dampness and moisture that



the Famous "Cut Test"

Gravel, slag or tile provide a fire-safe, practically indestructible wearing surface which permits the use of a greater amount of waterproofing material than it is possible to use on any other types of roofs. Barrett Specification Roofs are applied by good roofers everywhere. These concerns-Barrett Approved Roofers-are selected on the basis of experience, ability and integrity, and are invariably leaders in their communities. They use the finest grades of materials. Their work is supervised by trained Barrett technical men during every step of the application. In every respect these roofs are built to perform far beyond the period of the bond.

BIRMINGHAM, ALA.

Roof Maintenance and Repair Materials

cated records of Barrett Roofs which have lasted 30, 40 and 50 years without requiring one cent's worth of repairs. Many of

these roofs are still in good condition, giving weatherproof serv-

weaken ordinary roofs. Pitch is self-healing; is virtually immune to climatic variations; possesses rot-defeating creosote properties that outlaw fermentation or the development of fungi. Both Barrett Specification Pitch and Barrett Specification Tarred Felt are manufactured to be-and are conceded to be-the best it is possible to make. Barrett Specification application methods are accepted as standard throughout the building industry.



CONDENSED BARRETT ROOFING SPECIFICATIONS

For complete detailed specifications for all types of Built-up Roofings, Flashings, Roof Drainage, Waterproofing and Damp-proofing send for Barrett's Architect's and Engineer's Reference Manual. (See Sample Plate)

Condensed Barrett Specification Type "AA" Roof-for Use Over Poured Concrete or Poured Gypsum

Incline-For inclines not exceeding two (2) inches to the foot. Roofing-Shall be a Barrett Specification Roof, Type "AA" laid in accordance with the Barrett Specification (for use over concrete), by a roofing contractor approved by THE BARRETT COMPANY. The roof shall carry THE BARRETT COMPANY'S Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

Condensed Barrett Specification Type "A" Roof-for Use **Over Poured Concrete or Poured Gypsum**

Incline-For inclines not exceeding two (2) inches to the foot. Roofing-Shall be a Barrett Specification Roof, Type "A" laid in accordance with the Barrett Specification (for use over concrete), by a roofing contractor approved by THE BARRETT COMPANY. The roof shall carry THE BARRETT COMPANY'S Surety Bond Guaranty for fifteen (15) years, in accordance with Note No. 1 of said specification.

Condensed Barrett Specification Type "AA" Roof-for Use Over Boards

Incline—For inclines not exceeding two (2) inches to the foot.

BARRETT BONDED ROOF FLASHINGS AND BARRETT-HOLT ROOF DRAINS Bonded Barrett Roof Flashings

Flashings are the most sensitive parts of any roof. Realizing this, Barrett has developed various flashing systems that are absolutely dependable.

Architect's and Engineer's Reference Manual.

Barrett Type "AA" flashing (illustrated) provides: (1) a durable, watertight connection between roof and parapet; (2) a flashing that allows for expansion and contraction; (3) ease of installation; and (4) moderate cost and freedom from upkeep.



Cross Section of Barrett Flashing Block and Flashings Diagram showing installation of flashing block in a brick wall,

and Type "AA" flashing



Cross Section of Barrett Flashing Form and Flashings Metal form installed in concrete wall and Type "AA" flashing

Barrett Flashings constructed in combination with Barrett Flashing Blocks or Forms and used in conjunction with Barrett Specification Roofs are bonded for the same period as the roof itself. Barrett Flashings THE BARRETT COMPANY constructed according to Barrett Specifications, but for a free copy.

ROOF EXAMINATION AND ENGINEERS' CONSULTING SERVICE

For years Barrett has maintained an extensive Construction Service Department. At the request of men interested in the maintenance or modernization of buildings, plants, etc., highly trained representatives of this department have made careful surveys of the roofs of various buildings and rendered detailed reports.

In many instances such examinations have resulted in large savings in building maintenance.

On request, one of our representatives will go over your roofing problem with you or will make a careful survey of roof,

tains

Address Construction Service Department, THE BARRETT COMPANY, 40 Rector Street, New York, N. Y.; 2800 So. Sacramento Avenue, Chicago, Ill.; or Birmingham, Ala. In Canada, write to THE BARRETT COMPANY, LTD., 5551 St. Hubert Street, Montreal, Quebec.

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Roofing-Shall be a Barrett Specification Roof, Type "AA," laid in accordance with the Barrett Specification (for use over boards), by a roofing contractor approved by THE BARRETT COMPANY. The roof shall carry THE BARRETT COMPANY'S Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

Incline—For inclines not exceeding two (2) inches to the foot. Roofing-Shall be a Barrett Specification Roof, Type "A," laid in accordance with the Barrett Specification (for use over boards), by a roofing contractor approved by THE BARRETT COMPANY. The roof shall carry THE BARRETT COMPANY'S Surety Bond Guaranty for fifteen (15) years, in accordance with Note No. 1 of said specification.

Barrett Built-up Steep Roofing Specifications-For sawtooth, monitor, umbrella, butterfly, hopper, plain hip, and other types of steep roof. Bonded for 10, 15 or 20 years (according to type) when applied according to Note No. 1 in Section 2 of Barrett's Architect's and Engineer's Reference Manual.

without flashing forms or blocks, are guaranteed for 10 years when used in conjunction with Barrett Specification Roofs. Section III of our Architect's and Engineer's Refer-For complete details and specifications, see Barrett's ence Manual gives detailed description of Barrett Roof Flashing systems.

> prevent interior floods if the leader pipe stops up, and allow for expansion and contraction in the line. Store Grand These connections are made for roofs of every type. They come complete -flashing flanges, expansion joint, gravel stop and attachment—everything all ready to install. There are no extras or waste time in soldering parts on the job. Full details of all types of Barrett-Holt Roof Drains are contained in Barrett's Architect's and Engineer's Reference Manual. Write

Condensed Barrett Specification Type "A" Roof-for Use Over Boards

Roofing for Steep Surfaces

Barrett-Holt Roof Drains

Barrett-Holt Roof Drains, with their airtight, watertight expansion joint, overcome all the defects of both rigid and loose-joint leader connections. They do not tear away the roofing around the intake; they



Cross View Section of Type 1-LG Barrett-Holt Roof Drain

Drain used as a leader outlet on all flat roofs having interior dra n age, except roofs covered with tile, brick or similar material

flashings, walls, coping, etc., on all your plants in conjunction with your superintendent or your master mechanic. (This serv-ice is available for buildings or structures with roof areas of 5000 sq. ft. or more that are located east of the Rocky Moun-







First-Coat the roof deck uniformly with Barrett Specification Pitch.

Second—Over the entire surface lay four (4) plies of Barrett Specification Tarred Felt, lapping each sheet twenty-four and one-half $(24\frac{1}{2})$ inches over preceding one, mopping with Barrett Specification Pitch the full twenty-four and one-half $(24\frac{1}{2})$ inch lap on each sheet, so that in no place shall felt touch Felt. Such nailing as is necessary shall be done along upper edge of each sheet so that all nails shall be covered by not less than three (3) plies of felt.

Third—Over the entire surface pour from a dipper a uniform coating of Barrett Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each hundred (100) square feet. The gravel or slag shall be from one-quarter ($\frac{1}{4}$) inch to five-eighths (%) inch in size, dry and free from dirt.

General-The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by THE BARRETT COMPANY. He shall fur-nish THE BARRETT COMPANY'S Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1, Note No. 1—THE BARRETT COMPANY will give its Guaranty Bond on jobs of five thousand (5000) square feet or more in the United States and Canada where its inspection service is avail-able, provided the roof is applied by a roofing contractor ap-proved by THE BARRETT COMPANY in strict accordance with the above specification and subject to Barrett inspection and approval.

Roofing-Shall be a Barrett Specification Roof, Type "AA," laid in accordance with the Barrett Specification (for use over poured concrete or gypsum) by a roofing contractor approved by THE BARRETT COMPANY. The roofing contractor shall furnish THE BARRETT COMPANY'S Surety Bond Guaranty for twenty (20) years from date of completion, in accordance with Note No. 1 of said specification.

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FULL SIZE SECTION

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Condensed Specification

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BARRETT WATERPROOFING AND DAMPPROOFING-METHODS AND MATERIALS

Foundations Footings

Floors Pits and Sumps

For Reservoirs

Swimming Pools

THE MATERIALS

Barrett Specification Felt; Barrett Specification Waterproofing Pitch; Black Diamond Felt; Black Diamond Pitch; Waterproofing Fabric; Dampproof Coating and Plaster Bond; Stone Backing and Stainproof Coating; Barrett Hydronon Paint; Plastic and Liquid Elastigum, etc.

Waterproofing

Waterproofing in some form is essential to the life and stability of many structures. Just what this form should be is a problem not exactly determinable by precise mathematical calculation. However, with a careful study of conditions, with the knowledge of definite factors and with the help of past experience, a form or method of waterproofing may be devised for the specific conditions encountered.

Proper waterproofing materials, intelligently selected and skillfully applied, are vital factors in making engineering structures watertight.

Membrane Method-For most satisfactory results the use of the membrane method of waterproofing is recommended. This method correctly followed not only protects but prolongs the life of any structure, and has been successfully used over a long period of years. It provides an elastic and continuous bituminous waterproofing blanket, composed of layers of waterproofing felt or fabric, homogeneously cemented with suitable waterproofing bitumen.

The use of the membrane system applies generally to the waterproofing of structures exposed to hydrostatic pressure or conditions of dampness or moisture, particularly those below ground surface, such as foundations of buildings, tunnels, subways, or other forms of sub-construction.

It is equally adaptable to the waterproofing of reservoirs, bridges, retaining walls, etc.

Dampproofing, as the name implies, is concerned with preventing the penetration of moisture or dampness—its most important use being in the preserving of exterior walls and interior wall finishes.

Barrett Dampproofing Coatings provide an adequate bond between the walls to which they are applied and the succeeding coats of rough and smooth wall plaster. This bonding feature is accomplished through the ad-hesive nature of the materials themselves. No mechanical key is required where plaster coats are applied directly to the dampproofing. The need of furring or lathing is eliminated, and building economy materially promoted.

Barrett Approved Waterproofing Contractors are skilled in the arts of waterproofing and dampproofing. Their employment on specific installations in accordance with specifications outlined assures obtaining satisfactory results.

preparing of specifications for specific jobs or handling of unusual installations.



New York Hospital and Cornell Medical College, New York, N. Y. Roofed and waterproofed with Barrett materials [4]

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Subways	Railroad Bridge Decks
Stadia	Highway Bridges

Dampproofing

Approved Waterproofing Contractors

The services of our Construction Service Department are available for consultation or co-operation in the



First National Bank, New York, N. Y. Roofed, waterproofed and dampproofed with Barrett materials









BARRETT ASPHALT SHINGLES AND SIDING MATERIALS

Barrett manufactures a wide assortment of fine mineral surfaced shingles and sidings. These materials are fire-safe, rugged, surprisingly long lived, economical and unusually attrac-tive. They are provided in a wide range of plain colors, tones and blends.

to the felt base which is manufactured in Barrett's own felt mills. Scientifically controlling every step from crudes to fin-







Size: 12x16 in., 6-in. headlap. 228 Shgles (4 Bdles) per sq. Colors: Green, Bright Green, Blue-black, Tile Red, Green Tone, Red Tone, Variegated, Forest Green, Gray-stone,

Octagonal



A an especially fine shingle for use on homes with dormers and bays-and for re-siding. 4 shingles to strip. Size: 11x33% in., 3-in, headlap,

108 Shgles (2 Bdles) per sq. Colors: Red, Green, Bright Green, Blue-black.



mineral surfaced, while brick butts double coated and double mineral surfaced. Size: 7x36 in., 4 bricks to strip. 1-in, headlap, 134 pieces (3 Bdles) per sq. Colors: Bright Reds, Buffs, Tile Reds and Attractive Blends, with black, cream or brown mortar lines.





An ever pop ular shingle. Diagonal design offers poor target to wind Size: 111/3 x36 in., 2-in. headlap, 86 Shgles (2 Bdles) per sq. 121/3 x36 in., 3-in. headlap, 86 12¹/₃x36³ m., 3-m. headlap, 86 Shgles (2 Bdles) per sq.
12x36³ m., 4-m. headlap, 100 Shgles (2 Bdles) per sq.
12¹/₂x36³ m., 4¹/₂-m. headlap, 100 Shgles (3 Bdles) per sq.
13¹/₂x36³ m. (Giant Weight), 3-m. headlap, 76 Shgles (3 Bdles) per sq. Bdles) per sq. Colors: Red, Green, Bright Green, Blue-black, Tile Red, Red Tone, Green Tone, Varie-gated, Brown Blend.

weight 240 lb.



BARRETT ROLL ROOFINGS

Mineral Surfaced Roofing

Barrett's 82 years' roofing experience is your best assurance that any roofing bearing the Barrett label will give years of trouble-free, weathertight, fire-safe protection. Everlastic Giant-The finest mineral surfaced roll roofing made. 3-in.

selvage. Weight: 105 lb. per roll; 36 in. x 36 ft. 8 in. Covers 100 sq. ft. Colors: Red, Green, Bright Green. Underwriters' label. Everlastic—An exceptionally high quality roofing, with 2-in. selvage. Weight: 90 lb. per roll; 36 m. x 36 ft. Covers 100 sq. ft. Colors: Red, Green, Bright Green, Blue-black, Tile Red, Variegated, Underwriters' label.

Everlastic Starting Strips—For use under asphalt shingles and for lining valleys. *Roll*; 9 in. x 36 ft—27 sq. ft. 21 lbs. *Roll*; 18 in. x 36 ft.—54 sq. ft.—43 lbs. *Colors*; Red, Green, Bright Green, Blue-black, Tile Red, Carro

Variegated. Vitex-Good value, good quality roofing, with 2-in. selvage. Weight: 75 lb. per roll; 36 in. x 36 ft. Covers 100 sq. ft. Colors: Red, Green, Blue-black, Bright Green. Diamond Point-Everlastic Roofing cut in diamond point style, Weight; 100 lb. per roll; 32 in, x 48 ft. Covers 100 sq. ft. Colors: Red, Green and Bright Green. Also, with contrasting tips: Bright Green, Bright Red, Buff, Dark Brown and Flame Red, Bronze Green, Blue Green and Purple Green Blends.

Paragon Point-Everlastic Roofing cut to unusual design. Weight: 100 lb, per roll; 32 in, x 48 ft. Covers 100 sq. ft. Colors: Tile Red, Green and Bright Green. Also, with contrasting tips: Bright Green, Bright Red, Buff, Dark Brown and Flame Red, Bronze Green, Blue Green and Purple Green Blends.

S.I.S.-17-in, selvage, giving 2 plies of roofing. Weight: 60 lb. per roll; 32 in. x 401/2 ft. Covers 50 sq. ft. of roof area. Colors Red, Green, Bright Green, Blue-black. Un-derwriters' label.



ft. Underwriters' label.

Heavy, 65 lb.; Heavy, 55 lb.; Medium, 45 lb.; Light, 35 Ib Tomahawk-A low priced roofing of good value, also largely used for floor covering, lining packing cases, etc. Weights: Heavy, 55 lb.; Medium, 45 lb.; Light, 35 lb. 36 in. x 36 ft.

Plastico-The best grade felt roofing designed especially for use as a cap sheet. Especially treated to withstand foot traffic. Weight: 68 lb, per roll. 36 m. x 72 ft. Walkover-A low priced, tough roll roofing especially for use as cap sheet. Weather side corrugated and dusted with soapstone. Weight: 68 lb. per roll, 36 in. x

72 ft.

Protexit-A good value, moderate priced cap sheet roofing. Heavy, corrugated asphalt surfacing-underside not coated to provide bond. Suited to foot traffic. Weight: 68 lb. per roll. 36 in. x 72 ft.



Exclusively

bales) per sq. Colors: Bright Green, Blueblack, Tile Red, Brown Blend, Red Tone, Green Tone, Varie-





ished product, Barrett is able to offer its shingles and sidings in uniformly high quality.

Barrett Shingles and Sidings may be laid directly over old ive. They are provided in a wide range of plain colors, tones nd blends. Barrett Shingles are made entirely in Barrett's plants, even Barrett Shingles are made entirely in Barrett's plants, even Literature illustrating these materials in full color and giving

detailed descriptions will be gladly furnished upon application. Hexagonal Multi



A strip shingle of finest quality, coming three (or four)

shingles to the strip. Size: 10x36 in., 2-in. headlap, 100 Shgles (2 Bdles) per sq. 12¹/₂x36 in., 4¹/₂-in. headlap, 99 Shgles (3 Bdles) per sq. 12x36 in. (Giant Weight), 2-in. headlap, 80 Shgles (3 Bdles)

Colors: Red, Green, Bright Green, Blue-black, Tile Red, Red Tone, Green Tone, Variegated, Forest Green, Graystone.

Dublecote Thick Butt Multi Shingles

The butts of these shingles, as shown in diagram, are built up double-thick, with two layers of asphalt coating and two layers of mineral surfacing. This added weight and massiveness provide greater fire-resistance, extra weather protection, longer life and deeper shadows, hence greater beauty. The extra weight is placed where needed—on the exposed por-tion of the shingle only. Size: 12x36 in., 2-in. headlap, 80 shingles (3 Bdles) per sq. Standard

Smooth Surfaced Roofing

Barrett Everlastic is the finest Smooth Surfaced Roll Roofing it is possible to manufacture. Only the best quality felt base, asphalt saturant and asphalt coating are used.

Everlastic-The standard of smooth surfaced roofings. One side is surfaced with flaky, foliated tale, the other with granular tale. Weights: Extra Heavy, 70 lb. per roll; Heavy, 60 lb.; Medium, 50 lb. 36 in. x 36 ft. Underwriters' label.

Vitex-A smooth surfaced roofing for good service at a medium price, Weights: Extra heavy, 65 lb, per roll; Heavy, 55 lb.; Mednim, 45 lb.; Light, 35 lb. 36 in. x 36

Panamoid-Good quality, medium priced roofing, mica surfaced on both sides. 36 in. x 36 ft. Weights: Extra



