

ALPSAM75

TECH DATA SHEET ALPSAM

PRODUCT DESCRIPTION

Alpsam is a white self-adhering high performance roofing membrane manufactured in rolls 36' x 50' with a minimum thickness of 75 mil. Alpsam combines the convenience of a self-adhered system with the strength and integrity of traditional Hyload membranes in a highly reflective, high energy saving white color. Alpsam is used as the surface membrane in cold self-adhered applications directly over approved insulations or other substrates which have been properly primed. Alpsam may be used in all situations and over all surfaces where cold self-adhered membranes are specified and positive slope to drain exists. Alpsam is designed specifically for commercial and industrial applications where maximum integrity of the roofing system over time is of paramount concern. Alpsam is utilized in applications where increased environmental restrictions and customer sensitivity to certain project conditions are critical. Alpsam is often selected for hospitals, schools, nursing homes, offices, high rise buildings, and industrial plants where hot applied materials cannot be used. Seam integrity is created by simply adhering the overlapping membrane at the lay line located 3" in from the sides of the Alpsam. This provides a finished 3" side lap. End laps are completed by overlapping the next roll to be applied 9" onto the previously installed membrane. This lap method provides a virtually impervious surface protecting the system against the elements. Coatings and other surface finishes are permitted but not necessarily needed for published Hyload UL fire ratings or FM approvals. Alpsam meets Underwriters Laboratories requirements for Class A fire ratings as well as Factory Mutual Class 1-90 with FM approved roof insulations over concrete, lightweight fills, gypsum, steel, and wood decks. A wind design 1-120 can be calculated on a system by system basis for presentation to code bodies requiring the 1-120 wind design. Alpsam may be used in new construction or over existing roof membranes.

LIMITATIONS

Alpsam cannot be used with coal tar mastic but can be applied over coal tar roofs with appropriate separation. Phased construction is not approved. A positive slope of 1/2" in 12" must be in place prior to application. Vertical flashings may not exceed 18" in height without installing a termination bar or other approved method of fastening. Alpsam should only be applied when temperatures are 45°F and rising.

MATERIALS AND COMPOSITION

Alpsam is composed of an elastomeric blend of DuPont Elvaloy™ along with other unique ingredients reinforced with dispersed polyester fibers and incorporating an SBS adhesive in the manufacturing process.

COLOR: White (special colors available upon request)

SIZE: Rolls of 36" x 50' (135 Sq.ft. installed). Special sizes available upon request.

WEIGHT: 85 lbs. per roll (standard size)

APPLICABLE STANDARDS:

Alpsam is certified by Underwriters Laboratories as meeting requirements of its Class A fire rating in various system configurations. Alpsam has Factory Mutual approval for Class 1-90 with various insulations. Other code approvals include the International Building Code and Metro-Dade. For specifics consult the Hyload Technical Department.

CHEMICAL RESISTANCE

Alpsam has been proven resistive to a wide range of chemicals, however, when roofs are exposed to harsh chemicals, a welded seam is always recommended. Consult with the Hyload Technical Department to determine which product to use for your specific application or to obtain a Chemical Resistance Chart.

TECHNICAL DATA

Hyload provides technical data as well as installation instructions, details, and specification information to authorized roofing contractors, engineers, architects, and specifiers. This information can also be provided to designers in various formats used by engineering professionals.

Contractor field training, as well as in-house instruction, is used to develop certified applicators nationwide. In conjunction with The Technical Department, field inspections are performed by Hyload Representatives trained to perform prebid, job progress, and final inspections.

PREPARATION OF SUBSTRATE:

The substrate should be smooth, level, clean, and dry. All surfaces on which Alpsam is to be adhered must be primed with a quick drying asphalt based primer. It is imperative that the primer be dry prior to application of the Alpsam membrane. Dead load capabilities of the deck and supporting structure must be sufficient to support the load of the new system. Dead level applications are not acceptable. Substrate must have positive slope to drain.

INSULATION:

Alpsam should not be applied directly over insulation. The use of HyGlass recover board is recommended. HyGlass must be primed with a quick-drying water-based primer such as HyBond primer. Fastening must be completed following Hyload specifications or the insulation manufacturer's specification if more restrictive. When Factory Mutual standards are required, refer to the FM Approval Guide and latest supplement.

MEMBRANE INSTALLATION:

Alpsam can be installed directly over existing substrates, approved insulations, or base sheets after all have been properly primed. Alpsam can be used as the surface membrane in a built up system; for example: Install vapor barrier as required per vapor barrier manufacturer's instructions. Install cant strip (treated wood or fibrous) and treated wood nailers. Wood nailers are to be installed so as to meet height of the insulation. Install glass ply sheets and glass base sheets per specifications. When the first ply sheet is to be mechanically fastened a second glass ply sheet must be fully adhered in specified ply adhesive. Seam integrity is created by simply adhering the overlapping membrane at the lay line located 3" in from

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ALPSAM

the sides of the Alpsam. This provides a finished 3" side lap. End laps are completed by overlapping the next roll to be applied 9" onto the previously installed membrane.

FULLY ADHERED

ALPSAM is solidly attached to the substrate offering excellent resistance to wind uplift. Point stressing, which can occur with systems requiring mechanical fasteners to secure the membrane, is not a problem with ALPSAM.

Any leak that might result from membrane damage is localized to the area where the damage has occurred. In addition, use of rubberized asphalt with the fully adhered membrane greatly limits the extent of moisture infiltration.

MANUFACTURED WITHOUT PLASTICIZERS

ALPSAM's Elvaloy sheet is manufactured without liquid plasticizers permitting the use of stronger more resilient raw materials and a unique bonding adhesive system. The membrane's properties remain intact longer since plasticizer migration does not occur as is the case with many other conventional single plies which require liquid plasticizers.

LIGHTWEIGHT

ALPSAM requires no ballast. With the membrane weighing less than 1/2 lb. per square foot, minimal additions to present deck loads can be achieved using ALPSAM.

AVAILABILITY AND COST

Alpsam is available nationally. Contact the Hyload Corporate Sales Office for the name of the Hyload Representative in your area. Corporate sales: (800) 457-4056.

WARRANTY

Hyload makes available to its customers several high performance product warranties. Contact Hyload's Corporate Office directly for details. A standard warranty is 10 years.

TECHNICAL SERVICES

All questions relating to technical items not covered specifically in the Tech Data Sheet or product literature should be referred directly to the Hyload Technical Department.

INSTALLATION DATA*

Application of ALPSAM should take place only when the air and roof temperatures are above 45°F and rising.

1. Install vapor barrier as required.
2. Install insulation, treated wood nailers and cant strips. On roofs receiving insulation, wood nailers should be the same thickness as the insulation.
3. Install the base sheet(s) as required.
4. Surfaces must be primed with a fast drying asphaltic primer.
5. ALPSAM should be laid so that the roof and all rectangular projections are picture framed.
6. ALPSAM is supplied in rolls 36" wide by 50' long. Side laps should be 3" and end laps should be 9".
7. ALPSAM should be laid shingle fashion starting at the low point of the roof.
8. Immediately after the ALPSAM is laid, it should be rolled using a 70 lb. linoleum roller or a water filled garden roller.
9. All flashings and other details should be comprised of ALPSAM or ALPSAM WS.
10. ALPSAM does not require the use of any additional coatings and can be left exposed.

*Complete installation instructions with applicable detail drawings are included in the Hyload Technical Specifications Manual.

WARNING: Eye protection should be worn, when working with this product to guard against UV light.

CODE APPROVALS

Hyload ALPSAM is UL rated and complies with FM Certification requirements for wind uplift as well as meeting various code approvals.

PHYSICAL PROPERTIES

Property	Test Method	Results
Elongation	ASTM D412	170%
Tensile Strength	ASTM D412	1300 lbs/in ²
Tear Strength	ASTM D624	270 ppi
Density @ 70°F		80 lbs/ft ³
Low Temperature Flexibility	37-GP-56M	Pass
Water Absorption	37-GP-56M	Less than 0.1%