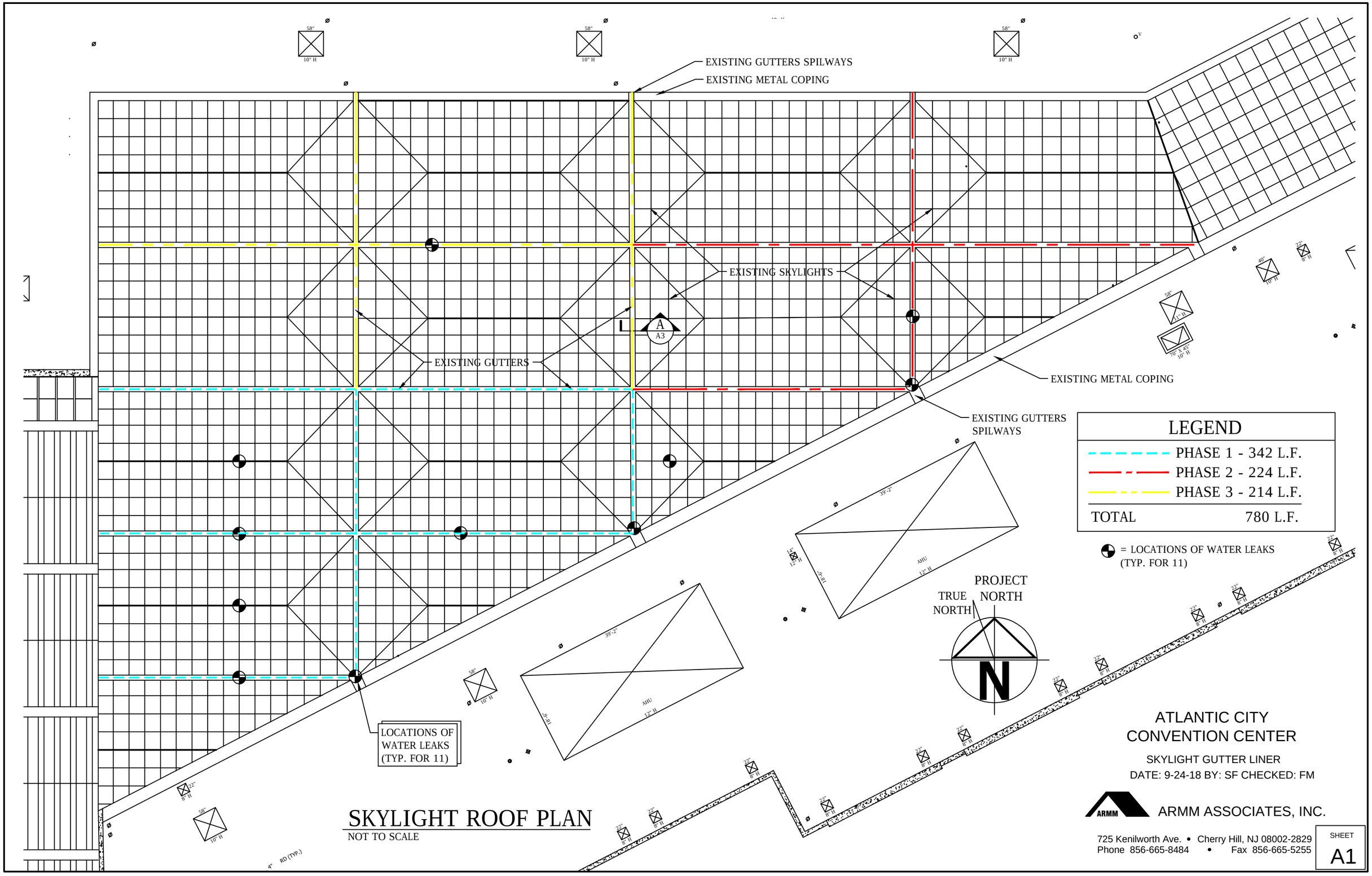


SKYLIGHT ROOF PLAN
NOT TO SCALE

F. MOVING (DYNAMIC) CRACKS - GREATER THAN 3 MM:

1. MOVING CRACKS GREATER THAN 3 MM MUST BE TREATED AS AN EXPANSION JOINT.

PART 2

2.01 INSTALLATION & STAGING

A. IN A NORMAL COLD LIQUID APPLIED MEMBRANE APPLICATION THE SUBSTRATE IS PREPARED AND PRIMED, FLASHINGS ARE INSTALLED, FOLLOWED BY THE APPLICATION OF THE WATERPROOFING MEMBRANE AND FINISH. THE TOP-COATED WILL BE FINISH THE SAME DAY OF APPLICATION WHENEVER POSSIBLE.

B. IF WORK IS INTERRUPTED FOR MORE THAN 12 HOURS USE MANUFACTURER'S PROPRIETARY CLEANER TO CLEAN AND REACTIVATE APPLIED PRIMER, RESIN MORTAR, FLASHING MEMBRANE OR FIELD MEMBRANE TRANSITION AREAS. CLEANER SHOULD BE ALLOWED A MINIMUM OF 20 MINUTES EVAPORATION TIME AFTER APPLICATION AND COVERED WITHIN 60 MINUTES OF APPLICATION OR AS RECOMMENDED BY THE MANUFACTURER.

2.02 FLASHING MEMBRANE APPLICATION SOPREMA ALSAN RS 230 FLASH

A. GENERAL:

1. REFER TO ARMM ASSOCIATES AND MANUFACTURER'S DETAIL DRAWINGS, PRODUCT DATA SHEETS AND PUBLISHED GENERAL REQUIREMENTS FOR APPLICATION RATES AND SPECIFIC INSTALLATION INSTRUCTIONS.
2. PROVIDE A MINIMUM VERTICAL HEIGHT (AS SHOWN ON THE ARMM ASSOCIATES PLANS) FOR ALL FLASHING TERMINATIONS WHEREVER POSSIBLE. FLASHING HEIGHT SHALL BE AT LEAST AS HIGH AS THE POTENTIAL WATER LEVEL THAT COULD BE REACHED AS A RESULT OF A DELUGING RAIN AND/OR POOR SLOPE.
3. **DO NOT FLASH OVER EXISTING THROUGH-WALL FLASHINGS, WEEP HOLES AND OVERFLOW SCUPPERS.**
4. ALL FLASHING SHALL BE TERMINATED AS REQUIRED BY THE MANUFACTURER. CAP FLASHINGS OR COUNTER FLASHINGS MAY BE CONSTRUCTED OF METAL, STONE, TILE OR OTHER MATERIALS PROPERLY INSTALLED IN ACCORDANCE WITH INDUSTRY-ACCEPTED PRACTICE.
5. INSTALL ALL FLASHING MEMBRANES BEFORE INSTALLING FIELD MEMBRANES.
6. THE PRIMED SUBSTRATE SHALL BE DRY AND FREE OF ANY DUST, LOOSE PARTICLES OR CONTAMINANTS.
7. PRECUT REINFORCING FLEECE TO CONFORM TO TERMINATIONS, TRANSITIONS AND PENETRATIONS BEING FLASHED. ENSURE A MINIMUM 2 IN (50 MM) OVERLAP OF FLEECE AT SIDE LAPS AND EXTEND FLASHING 4 IN (100 MM) MINIMUM HORIZONTALLY ONTO DECK UNLESS OTHERWISE SPECIFIED. ENSURE THE COMPLETED LIQUID APPLIED FLASHING MEMBRANE IS FULLY REINFORCED.
8. WHEREVER POSSIBLE FACTORY PRE-CUT FLEECE PIPE PENETRATION AND UNIVERSAL CORNERS SHALL BE USED.
9. MIX WATERPROOFING RESIN AND CATALYST APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF WATERPROOFING RESIN THAT CAN BE USED WITHIN THE APPLICATION TIME.
10. APPLY THE BASE COAT OF CATALYZED WATERPROOFING RESIN ONTO THE SUBSTRATE USING A BRUSH OR ROLLER, WORKING THE MATERIAL INTO THE SURFACE FOR COMPLETE COVERAGE AND FULL ADHESION.
11. IMMEDIATELY APPLY THE REINFORCING FLEECE INTO THE WET BASE COAT OF RESIN MAKING SURE THE SMOOTH SIDE IS UP. USING A BRUSH OR ROLLER, WORK THE REINFORCING FABRIC INTO THE WET RESIN WHILE APPLYING THE SECOND COAT OF CATALYZED WATERPROOFING RESIN TO COMPLETELY ENCAPSULATE THE FLEECE. AVOID ANY FOLDS AND WRINKLES.
12. AT MEMBRANE TIE-INS, CLEAN CURED MEMBRANE WITH SPECIFIED CLEANER BEFORE APPLICATION OF ADJACENT MEMBRANE.

B. PENETRATIONS

1. PIPES, CONDUITS, POSTS, SUPPORTS AND UNUSUAL SHAPED PENETRATIONS:
   a. PIPES, CONDUITS AND OTHER ITEMS TO BE FLASHED MUST BE SEPARATED WITH ½ IN (13 MM) MINIMUM CLEARANCE OR AS RECOMMENDED BY MANUFACTURER TO ADEQUATE WATERPROOF EACH INDIVIDUAL PENETRATION.
   b. ALL PENETRATIONS MUST BE FLASHED INDIVIDUALLY. TWO OR MORE ITEMS GANGED TOGETHER IN A FLASHING WILL NOT BE PERMITTED.
   c. FLASH PENETRATIONS USING COLD LIQUID APPLIED REINFORCED MEMBRANE OR PROPRIETARY FIBRATED FLASHING RESIN AS RECOMMENDED. FLASHING SHALL BE APPLIED USING FACTORY PRE-CUT FLEECE WHEREVER POSSIBLE CONSISTING OF A REINFORCED DECK SKIRT/TARGET FLASHING APPLIED OVER A REINFORCED VERTICAL WRAP FINGER FLASHING.
2. DRAINS:
   a. FLASH DRAINS USING COLD LIQUID APPLIED MEMBRANE. FLASHING SHALL CONSIST OF A MEMBRANE TARGET EXTENDING MINIMUM 12 IN (300 MM) HORIZONTALLY ONTO THE SUBSTRATE APPLIED OVER A FINGER FLASHING EXTENDED INTO THE PREPARED DRAIN BOWL A MINIMUM OF 3 IN (75 MM).
   b. AT NO TIME SHOULD THE COLD LIQUID APPLIED MEMBRANE BE INSTALLED TO RESTRICT OR REDUCE THE DRAIN INLET IN SIZE.
   c. FOR NEW DRAINS, CONTRACTOR SHALL INCLUDE COST OF ALL PLUMBING WORK, PIPING AND CONNECTION TO EXISTING STORM SEWER SYSTEM.
3. HOT PIPES:
   a. PROTECT COLD LIQUID APPLIED MEMBRANE COMPONENTS FROM DIRECT CONTACT WITH STEAM OR HEAT SOURCES WHEN THE IN-SERVICE TEMPERATURE EXCEEDS 150F (65.5C). IN ALL SUCH CASES FLASH TO AN INTERMEDIATE "COOL" SLEEVE.
   b. FABRICATE "COOL" SLEEVE IN THE FORM OF A METAL CONE USING NON-FERROUS METAL IN ACCORDANCE WITH MANUFACTURER DETAILS.
   c. FLASH SLEEVE USING COLD LIQUID APPLIED REINFORCED MEMBRANE SIMILAR TO A STANDARD PIPE FLASHING. FLASHING SHALL CONSIST OF A REINFORCED TARGET APPLIED OVER A REINFORCED VERTICAL WRAP FINGER FLASHING.
4. FLEXIBLE PENETRATIONS:
   a. PROVIDE A WEATHER-TIGHT GOOSENECK SET IN MANUFACTURERS RESIN PASTE AND SECURED TO THE DECK.
   b. FLASH GOOSENECK PENETRATIONS USING COLD LIQUID APPLIED REINFORCED MEMBRANE AS RECOMMENDED. FLASHING SHALL CONSIST OF A REINFORCED TARGET AND REINFORCED VERTICAL WRAP FINGER FLASHING.
5. WALLS, CURBS AND BASES:
   a. FLASH ALL WALLS, CURBS AND BASES USING COLD LIQUID APPLIED REINFORCED MEMBRANE. WHEREVER POSSIBLE EXTEND FLASHING UP AND OVER TOPS OF WALLS, CURBS AND BASES SO THE MEMBRANE TERMINATES ON THE OPPOSITE FACE OF THE VERTICAL ELEMENT.
6. EXPANSION JOINTS:
   a. FLASH ALL EXPANSION JOINTS WITH MINIMUM TWO LAYERS OF MANUFACTURER'S COLD LIQUID APPLIED REINFORCED MEMBRANE APPLIED OVER AN EXPANSION JOINT COMPRESSIBLE FILLER, EXPANSION TUBE, BACKER ROD AND/OR BOND BREAKER TAPE AS RECOMMENDED BY MANUFACTURER.
7. NON-STANDARD FLASHING DETAILS:
   WHEN REQUIRED, CONSULT MANUFACTURER FOR RECOMMENDATIONS ON FLASHING NON-STANDARD CONDITIONS, PENETRATIONS OR PROTRUSIONS.

2.10 WATERPROOFING CONTINUITY TESTING & QC EVALUATION

A. PRIOR TO APPLYING SURFACING OR FINISH, CONTRACTOR SHALL CONDUCT A COMPLETE EVALUATION OF THE INSTALLED LIQUID APPLIED WATERPROOFING MEMBRANE AND FLASHINGS WHICH SHALL INCLUDE VISUAL INSPECTION AS WELL AS AN ACCEPTABLE METHOD FOR (LOW VOLTAGE, HIGH VOLTAGE OR WATER-FLOOD) CONTINUITY TESTING WHEN REQUIRED.

B. IMMEDIATELY FOLLOWING EVALUATION AND CONTINUITY TESTING, REPAIR ALL DEFICIENCIES IDENTIFIED IN LIQUID APPLIED WATERPROOFING MEMBRANE AND FLASHINGS.

C. UPON SATISFACTORY COMPLETION OF ALL REQUIRED REPAIRS, PROCEED WITH APPLICATION OF FINISH LAYERS.

2.11 SURFACING & FINISH

A. GENERAL:

1. REFER TO MANUFACTURER'S DETAIL DRAWINGS, PRODUCT DATA SHEETS AND PUBLISHED GENERAL REQUIREMENTS FOR APPLICATION RATES AND SPECIFIC INSTALLATION INSTRUCTIONS.
2. LAYOUT AND INSTALL ALL SURFACING AND FINISH USING MANUFACTURER'S RECOMMENDED PRACTICE AND PROCEDURE WITH APPROPRIATE MASKING FOR CLEAN LINES BETWEEN SECTIONS. WHERE POSSIBLE USE COLOR BREAKS REVIEWED AND APPROVED BY THE OWNER AND/OR OWNERS REPRESENTATIVE. COLOR BREAKS SHOULD HELP IMPROVE APPEARANCE, HIDE MINOR VARIATIONS IN COLOR OR TEXTURE AND ALLOW FOR LOCALIZED REPAIRS OF THE SURFACING AND FINISH IF NEEDED.
3. INSTALL SURFACING AND FINISH LAYERS OVER FULLY CURED MEMBRANE LAYER.
4. THE SUBSTRATE SHALL BE DRY AND FREE OF ANY DUST, LOOSE PARTICLES OR CONTAMINANTS.
5. MIX RESINS USING A SLOW SPEED AGITATOR PRIOR TO POURING INTO A LARGER CONTAINER.
6. MIX SURFACING OR FINISH RESINS WITH CATALYST APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF PRODUCT THAT CAN BE USED WITHIN THE APPLICATION TIME.
7. APPLY THE CATALYZED SURFACING OR FINISH RESIN ONTO THE SUBSTRATE AS RECOMMENDED, WORKING THE MATERIAL INTO THE SURFACE FOR COMPLETE COVERAGE AND FULL ADHESION.
8. AT TIE-INS AND PREVIOUSLY APPLIED MEMBRANE, CLEAN CURED SURFACE WITH SPECIFIED CLEANER BEFORE APPLICATION OF SUBSEQUENT RESIN MATERIALS.
9. TRAFFIC SURFACING AND FINISH ARE SEMI-RIGID MATERIALS FORMULATED FOR DURABILITY AND PERFORMANCE. AS SEMI-RIGID COMPONENTS, WHEN APPLIED OVER SOFTER OR MORE FLEXIBLE MATERIALS, CRACKS AND MICRO FISSURES MAY OCCUR IN THE SURFACING AND FINISH LAYER. ALTHOUGH THIS DOES NOT AFFECT THE SYSTEM PERFORMANCE, IT WILL IMPACT THE COSMETIC APPEARANCE OF THE SURFACING AND FINISH. TO HELP REDUCE OR AVOID POTENTIAL COSMETIC CRACKS OR FISSURES, SURFACING AND FINISH SHOULD NOT BE APPLIED OVER AREAS OF POTENTIAL MOVEMENT INCLUDING THE FOLLOWING:
   a. HOLD SURFACING & FINISH BACK ½ IN FROM HORIZONTAL TO VERTICAL TRANSITIONS AT WALLS, PENETRATIONS AND LEADING EDGE OF ANY BOND BREAKER.
   b. DO NOT APPLY SURFACING & FINISH OVER ANY METAL COMPONENTS WHERE STRIPPED IN WITH MEMBRANE TO ALLOW FOR MOVEMENT.
   c. DO NOT APPLY SURFACING & FINISH OVER EXPANSION JOINTS OR OTHER JOINTS WHERE MOVEMENT IS POSSIBLE.

B.

1. PROVIDE WATERPROOFING MANUFACTURERS WEARING COAT AND SURFACING OPTION USING A COMBINATION OF RESIN FINISH AND MEDIUM-GRAIN AGGREGATE TO CREATE A HIGHLY SLIP-RESISTANT WEARING SURFACE, WARRANTED FOR A PERIOD OF 5 YEARS FROM THE DATE OF COMPLETION.
2. SURFACING LAYER: (SOPREMA ALSAN RS 287 OR RS 281)
   a. APPLY AN EVEN TOPCOAT OF PIGMENTED OR CLEAR FINISH RESIN USING A NOTCHED HARD RUBBER SQUEEGEE AT MINIMUM RECOMMENDED CONSUMPTION. USE AN APPROPRIATE ROLLER TO REMOVE EXCESS RESIN OR PUDDLING.
   b. BROADCAST #0 (0.4 - 0.8MM) KILN-DRIED QUARTZ AGGREGATE INTO THE WET RESIN TO EXCESS FOR FULL COVERAGE AT AN APPROXIMATE CONSUMPTION OF 100 LBS/100 FT2 (5.0 KG/M2).
   c. PRIOR TO APPLYING FINISH SEAL COAT, REMOVE EXCESS AGGREGATE FROM SURFACE BY BROOM, VACUUM OR OIL-FREE BLOWER.
3. FINISH SEAL COAT: (SOPREMA ALSAN RS 287 OR RS 281)
   a. APPLY AN EVEN SEAL COAT OF PIGMENTED OR CLEAR RESIN FINISH USING A HARD RUBBER SQUEEGEE AT MINIMUM RECOMMENDED CONSUMPTION. USE AN APPROPRIATE ROLLER TO REMOVE EXCESS RESIN OR PUDDLING.
   b. FINISH RESIN SHOULD BE APPLIED WITHIN 24 HOURS OF THE AGGREGATE APPLICATION OVER SOUND, CLEAN, AND DRY AGGREGATE ONLY.

C. SURFACING - TEXTURED FINISH (5 YEAR WARRANTY)

1. PROVIDE WATERPROOFING MANUFACTURER'S TEXTURED RESIN FINISH WITH INTEGRALLY MIXED AGGREGATE TO CREATE A HIGHLY SLIP-RESISTANT WEARING SURFACE, WARRANTED FOR A PERIOD OF 5 YEARS FROM THE DATE OF COMPLETION.
2. SURFACING LAYER: (SOPREMA ALSAN RS 289)
   i. APPLY AN EVEN TOPCOAT OF PIGMENTED TEXTURED FINISH RESIN USING A FLAT OR V-NOTCHED TROWEL AT MINIMUM RECOMMENDED CONSUMPTION. USE AN APPROPRIATE ROLLER TO REMOVE EXCESS RESIN OR PUDDLING. ROLL TEXTURED FINISH RESIN IN ONE DIRECTION, THEN ROLL IN THE CROSS DIRECTION TO OBTAIN A UNIFORM FINISH. IMMEDIATELY REMOVE MASKING BEFORE SURFACING RESIN CURES.

E. SURFACING - BROADCAST AGGREGATE FINISH (5 YEAR WARRANTY)

2. PROVIDE WATERPROOFING MANUFACTURERS WEARING COAT AND SURFACING OPTION USING A COMBINATION OF RESIN FINISH AND MEDIUM-GRAIN AGGREGATE TO CREATE A HIGHLY SLIP-RESISTANT WEARING SURFACE, WARRANTED FOR A PERIOD OF 5 YEARS FROM THE DATE OF COMPLETION.
3. SURFACING LAYER: (SOPREMA ALSAN RS 287 OR RS 281)
   a. APPLY AN EVEN TOPCOAT OF PIGMENTED OR CLEAR FINISH RESIN USING A NOTCHED HARD RUBBER SQUEEGEE AT MINIMUM RECOMMENDED CONSUMPTION. USE AN APPROPRIATE ROLLER TO REMOVE EXCESS RESIN OR PUDDLING.
   b. BROADCAST #0 (0.4 - 0.8MM) KILN-DRIED QUARTZ AGGREGATE INTO THE WET RESIN TO EXCESS FOR FULL COVERAGE AT AN APPROXIMATE CONSUMPTION OF 100 LBS/100 FT2 (5.0 KG/M2).
   c. PRIOR TO APPLYING FINISH SEAL COAT, REMOVE EXCESS AGGREGATE FROM SURFACE BY BROOM, VACUUM OR OIL-FREE BLOWER.
4. FINISH SEAL COAT: (SOPREMA ALSAN RS 287 OR RS 281)
   a. APPLY AN EVEN SEAL COAT OF PIGMENTED OR CLEAR RESIN FINISH USING A HARD RUBBER SQUEEGEE AT MINIMUM RECOMMENDED CONSUMPTION. USE AN APPROPRIATE ROLLER TO REMOVE EXCESS RESIN OR PUDDLING.
   b. FINISH RESIN SHOULD BE APPLIED WITHIN 24 HOURS OF THE AGGREGATE APPLICATION OVER SOUND, CLEAN, AND DRY AGGREGATE ONLY.

END SECTION

ATLANTIC CITY
CONVENTION CENTER

SKYLIGHT GUTTER LINER
DATE: 9-24-18 BY: SF CHECKED: FM

ARMM ASSOCIATES, INC.

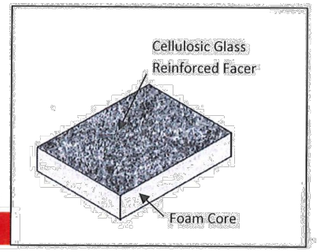
725 Kenilworth Ave. • Cherry Hill, NJ 08002-2829
Phone 856-665-8484 • Fax 856-665-5255

SHEET
A10

ISO 95+™ GL Insulation

Item Description
Flat and Tapered Polyiso Boards

Flat Boards:	4' x 4' (1.22 m x 1.22 m)
	4' x 8' (1.22 m x 2.44 m)
Tapered Boards:	4' x 4' (1.22 m x 1.22 m)
Slope range:	1/16" per foot (.5%) to ½" per foot (4%)
Thickness range:	0.5" (12.7 mm) to 4.5" (114.3 mm)



Meets or exceeds performance requirements of ASTM C 1289, Type II, Class 1

Product Information

Description:

Firestone ISO 95+ GL flat and tapered roof insulation consists of a closed-cell polyiso foam core laminated to a black glass reinforced mat facer on both major surfaces. Flat and tapered ISO 95+ GL insulation provides outstanding thermal performance on commercial roofing applications, while providing positive rooftop drainage to help eliminate ponding water when tapered ISO 95+ GL insulation is used.

All Firestone polyisocyanurate insulations use EPA accepted blowing agents. Firestone ISO 95+ GL incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone layer (ODP-free).

Method of Application:

1. Insulation shall be neatly fitted to all roof penetrations, projections and nailers.
2. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.
3. Firestone ISO 95+ GL board may be installed using:
   - Firestone fasteners and plates

   NOTE: For ballasted systems, the top layer of Firestone insulation may not be mechanically attached.
   - Hot asphalt (requires a cover board)
   - Firestone approved insulation adhesives
     - I.S.O. Twin Pack™
     - I.S.O. Stick™
     - I.S.O. Spray™ R
     - I.S.O. FIX™ II

Acceptable Immediate Substrates:

- 3,000 psi Structural concrete (must be clean, dry, and properly cured)
- Steel deck (min 22 ga)
- Plywood and OSB (min ½")
- Lightweight concrete
- Gypsum deck (min 2")

NOTE: Please consult the Design Guides and QuickSpecs online at www.firestonebpco.com to review specific information regarding the assembly.

Storage:

- Keep insulation dry at all times
- Elevate insulation above the deck or ground
- Cover insulation with waterproof tarps

ISO 95+™ GL Insulation

Precautions:

- Polyiso foam will burn if exposed to a flame of sufficient heat and intensity. Keep away from heat, sparks, and open flames.
- Protect against dust that may be generated during installation.
- Refer to Safety Data Sheet (SDS) for additional information.
- Take care when transporting and handling Firestone insulation to avoid physical damage.

Specification Compliance:

ASTM C1289, Type II, Class 1
UL Classified–UL1256
FM Class 1 Approved
Manufactured in an ISO 9001 Registered Facility
CAN/ULC-S704, Type 1, Class 3

FM APPROVED
CLASSIFIED c UL us
PIMA QualityMark The Certified UTR-value
MIAMI-DADE COUNTY APPROVED
CCMC 13274-L

LEED® Information:

See Recycled Content in table below.

Manufacturing Locations:	Florence, KY	Corsicana, TX	Bristol, Ct
	De Forest, WI	Salt Lake City, UT	Youngwood, PA
	Jacksonville, FL		

NOTE: Miami Dade Classified polyiso is only produced in the Jacksonville, FL and Youngwood, PA facilities.

Typical Properties (Meets ASTM C 1289, Type II, Class 1)

Property	ASTM Test Method	Firestone Typical Performance
Compressive Strength:	D1621	Grade 2: 20 psi (138 kPa)
		Grade 3: 25 psi (172 kPa) *
Density:	D1622	2 pcf (32 kg/m^3)
Dimensional Stability:	D2126	<2%
Moisture Vapor Transmission:	E96	<1 perm (<57.5 ng/(Pa•s•m^2))
Water Absorption:	C209	<1% by volume
Service Temperature:	----	-100 to 250 °F (-73 to 121 °C)
Flame Spread:	E84	Index 50
Smoke Development:	E84	Index 160 - 180

**25 psi (172 kPa) available upon request.*

ATLANTIC CITY
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SKYLIGHT GUTTER LINER

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SHEET
A11

TECHNICAL INFORMATION SHEET

Firestone BUILDING PRODUCTS

ISO 95+™ GL Insulation

Product Information

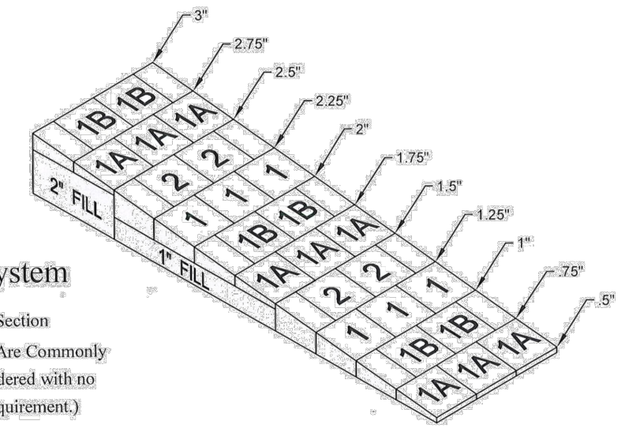
Thickness*		(R-Value)	Max Flute Span		Approx. Recycled Content		
inches	mm	**	inches	mm	Post Consumer	Post Industrial	Total
0.5	12.70	2.9	1.50	38.10	52%	15%	67%
1.0	25.40	5.7	2.62	66.67	37%	15%	52%
1.1	27.94	6.3	2.62	66.67	36%	15%	51%
1.2	30.48	6.8	2.62	66.67	34%	15%	49%
1.3	33.02	7.4	3.67	93.34	32%	15%	47%
1.4	35.56	8.0	3.67	93.34	30%	15%	45%
1.5	38.10	8.6	4.37	111.12	29%	15%	44%
1.6	40.64	9.1	4.37	111.12	27%	15%	42%
1.7	43.18	9.7	4.37	111.12	26%	15%	41%
1.75	44.45	10.0	4.37	111.12	26%	15%	41%
1.8	45.72	10.3	4.37	111.12	25%	15%	40%
1.9	48.26	10.8	4.37	111.12	24%	15%	39%
2.0	50.80	11.4	4.37	111.12	24%	15%	39%
2.1	53.34	12.0	4.37	111.12	22%	15%	37%
2.2	55.88	12.6	4.37	111.12	21%	15%	36%
2.25	57.15	12.9	4.37	111.12	21%	15%	36%
2.3	58.42	13.2	4.37	111.12	21%	15%	36%
2.4	60.96	13.8	4.37	111.12	20%	15%	35%
2.5	63.50	14.4	4.37	111.12	20%	15%	35%
2.6	66.04	15.0	4.37	111.12	19%	15%	34%
2.7	68.58	15.6	4.37	111.12	18%	15%	33%
2.75	69.85	15.9	4.37	111.12	18%	15%	33%
2.8	71.12	16.2	4.37	111.12	18%	15%	33%
2.9	73.66	16.8	4.37	111.12	17%	15%	32%
3.0	76.20	17.4	4.37	111.12	17%	15%	32%
3.1	78.74	18.0	4.37	111.12	16%	15%	31%
3.2	81.28	18.6	4.37	111.12	16%	15%	31%
3.25	82.55	18.9	4.37	111.12	16%	15%	31%
3.3	83.82	19.2	4.37	111.12	16%	15%	31%
3.4	86.36	19.9	4.37	111.12	15%	15%	30%
3.5	88.90	20.5	4.37	111.12	15%	15%	30%
3.6	91.44	21.1	4.37	111.12	14%	15%	29%
3.7	93.98	21.7	4.37	111.12	14%	15%	29%
3.75	95.25	22.0	4.37	111.12	14%	15%	29%
3.8	96.52	22.3	4.37	111.12	14%	15%	29%
3.9	99.06	23.0	4.37	111.12	14%	15%	29%
4.0	101.60	23.6	4.50	114.30	14%	15%	29%
4.1	104.14	24.2	4.50	114.30	13%	15%	28%
4.2	1.6.58	24.9	4.50	114.30	13%	15%	28%
4.25	107.95	25.2	4.50	114.30	13%	15%	28%
4.3	109.22	25.5	4.50	114.30	13%	15%	28%
4.4	111.76	26.1	4.50	114.30	13%	15%	28%
4.5	114.3	26.8	4.50	114.30	13%	15%	28%

*Other thicknesses available upon request.
**R- values provide a 15-year time-weighted average in accordance with CAN/ULC-S770.

Please contact Quality Building Services Technical Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.

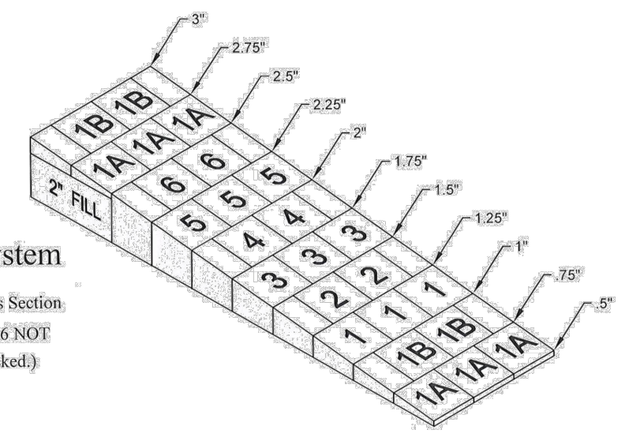
The material is **Firestone ISO 95+** Tapered and Flat Polyisocyanurate Roof Insulation.
The Standard Tapered Panel Size is 4' x 4'.
1/16"/ft. taper is NOT recommended for use on level roof decks.



4 Panel System

Standard Cross Section

(NONE of these Panels Are Commonly Stocked, but can be ordered with no minimum bundle requirement.)



8 Panel System

Non-Standard Cross Section

(* Panels 3,4,5 & 6 NOT Commonly Stocked.)

* There is a 20 Bundle (4'x4' bundle) Minimum Requirement for Non-Stock Panel Orders if manufacturing is required.
If Non-Stock Panels are available in quantities desired, this requirement may be waived.

Performance ROOFING ASSOCIATES
Phone (610) 594-6700 • Fax (610) 594-6707
93 West Devon Drive - Suite 200 • Exton, PA 19341
e-mail: ShawnM@prarfg.com web: www.prarfg.com

1/16"/ft. Slope
Cross Sections
* Non-Stock Panels

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ATLANTIC CITY
CONVENTION CENTER

SKYLIGHT GUTTER LINER

DATE: 9-24-18 BY: SF CHECKED: FM

ARMM ASSOCIATES, INC.
725 Kenilworth Ave. • Cherry Hill, NJ 08002-2829
Phone 856-665-8484 • Fax 856-665-5255

SHEET
A12

SOPRASEAL® SEALANT

SOPRASEAL® SEALANT
PRODUCT # D30177

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

SOPRASEAL Sealant is a low VOC, solvent-free, polyether adhesive-sealant. This fast-setting, moisture curing product is designed to be applied where outgassing and solvents are not tolerated. SOPRASEAL Sealant's tough elastomeric bonds allow for excellent adhesion to most construction materials as well as all SOPRASEAL membranes.SOPRASEAL Sealant can be applied at temperatures as low as 32°F (0°C) with a pneumatic cartridge (no special tools or mixers required). SOPRASEAL Sealant will not shrink upon curing or discolver when left exposed to UV. SOPRASEAL is fast setting and after 24 hours is fully cured.

STORAGE & HANDLING

Store unopened containers in a cool, dry area. Protect from water, heat and direct sunlight. Extreme temperatures will reduce shelf life. SOPRASEAL Sealant will not freeze.

APPLICATION

Ensure application surface is clean, sound, dry and free of debris. Test substrate prior for bonding strength and compatibility prior to application. SOPRASEAL Sealant is used as an accessory sealant to all SOPREMA wall membranes.

QUICK FACTS

ASTM	QUANTITY (oz)	PACKAGING (cartridges/box)	COLOR
ASTM C920	10.1 cartridges	24 tubes	Gray

SOPREMA®
www.soprema.us
310 Quadral Drive, Wadsworth, Ohio 44281
Toll Free: (800) 356-3521 | Tel: (330) 334-0066

SOPRASEAL® SEALANT

TECHNICAL INFORMATION & TESTING

PHYSICAL PROPERTIES		
PROPERTY		TEST METHOD
Viscosity, cp @ 72°F (22°C)	1,200,00 +/- 400,000	-
Density, lbs/gal	11.8 +/- 0.2	ASTM D1475
Tack free time	20 +/- 10 min	-
Elongation at break, %	275 - 325	ASTM D412
Tensil Strength, psi	325-375	ASTM D412
Hardness Shore A	32-42	ASTM C661
Low temperature flex, 1/4 in mandrel, °F (°C)	-10 (23)	ASTM D816
Shrinkage	No visible shrinkage after 14 days	-
Service temperature, °F (°C)	-40-200 (-40-93)	-
VOC, grams/liter	< 15	-

SOPREMA®

PD10318 - REV. 028416

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PRODUCT DATA SPECIFICATIONS

OMG
OlyBond500®
INSULATION ADHESIVE

Part 1 General

1.01 DESCRIPTION

OlyBond500 is a two-component polyurethane adhesive used to adhere a variety of board stocks to most roof substrates in both new and re-roof applications. It can also be used to adhere insulation board to insulation board. OlyBond500 is dispensed in ¾- to 1-inch bands that spread to several inches while rising ¾- to 1-inch above the substrate. Place the board stock into the adhesive and walk into place. A chemical cure takes place securing the board in approximately 4 to 8 minutes after application, depending on temperature and weather conditions.

1.02 TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUES
Density	ASTM D-1622	3.2 lb./cf
Compressive Strength	ASTM D-1621	38 psi @ 6% deflection
Tensile Strength	ASTM D-1623	35 psi
Water Absorption	ASTM D-2842	5.1%
Closed Cell Content	ASTM D-6226	90% min.
R-Value	ASTM C-518	3.8/inch (new)
VOC Content	ASTM D-2369	11 g/L regular grade 50 g/L winter grade
Weight/Gallon	Part 1 Component Part 2 Component	10.32 lbs. 8.54 lbs.

1.03 PACKAGING

1. Package Sizes:
   - 30 gallon Drum sets for use with the PaceCart® (15 gal. Part 1; 15 gal. Part 2).
   - 10 gallon Bag-in-Box sets for use with the PaceCart (5 gal. Part 1; 5 gal. Part 2).
   - 1500 ml SpotShot cartridge sets for use in specially designed applicators.
2. Formulas (5 gallon Bag-in-Box + 15 gallon drums):
   - Regular (40°F +)
   - Winter (25°F to 65°F)
3. Formulas (1500 ml SpotShot cartridges):
   - Regular (40°F +)
   - Winter (0°F to 65°F)

1.04 QUALITY ASSURANCE

The OlyBond500 adhesive must be installed in compliance with the information outlined on the OlyBond500 Request for Warranty form and approved in writing by an authorized representative of OMG, Inc.

1.05 SUBMITTALS

To insure compliance with the OMG warranty requirements, the following information must be submitted to OMG for review prior to installation, and preferably prior to bid:

1. Request for Warranty form filled out with the correct project information.
2. Unusual projects such as air pressurized buildings, cold storage buildings, buildings that have large openings (e.g. where the total wall openings exceed 10% of the total wall area on which the openings are located), may require additional review time.

1.06 JOB CONDITIONS

1. Insure that you have the correct OlyBond500 formulation for the surface and ambient temperature.
   - Bag-in-Box or Drums: Regular or Winter
   - SpotShot: Regular or Winter
2. On retrofit-recover projects, the existing roofing material must be investigated to insure adequate attachment of existing system. All wet material must be identified and removed prior to the application of the OlyBond500 adhesive.

3. Existing Phenolic Insulation must be removed.
4. Coordination between trades is essential to avoid unnecessary rooftop traffic.

1.07 STORAGE AND HANDLING

1. Store in a cool, dry location at temperatures between 55°F and 85°F. Protect from freezing at all times. If properly stored, the shelf life for unopened product is 18 months from the date of manufacture.
2. Keep containers closed. Contamination by moisture or basic compounds can cause dangerous pressure build-up in a closed container.
3. The minimum product temperature before application should be 72°F. The minimum ambient and surface temperatures should be 40°F and rising unless the Winter formulation is being used. * See part 3 Execution.

1.08 APPROVALS

OlyBond500 is approved by most roof system manufacturers and is Factory Mutual, Florida Building Code, Miami Dade and UL approved.

1.09 FIRST AID

In case of contact with eyes, immediately flush eyes with running water for at least 15 minutes. Call a physician immediately. In case of contact with skin, wash affected area with soap and water. Remove all contaminated clothing and shoes and clean before re-use. If swallowed, give large amounts of water to dilute. If vomiting occurs, give more water. Call a physician immediately.

1.10 DISPOSAL

PMDI in Part 1 component may cause pollution. Do not discharge into lakes, streams, ponds or public waters. Spilled material, unused contents and empty containers should be neutralized and disposed of in accordance with local, state and federal regulations.

1.11 WARRANTY

This product carries a 10 year limited material warranty on all OlyBond500 purchases. A full adhesion warranty is available by contacting OMG prior to starting the project and submitting a completed Request for Warranty form.

Part 2 Product

2.01 COMPOSITION AND MATERIALS

OlyBond500 is a two-component, reaction cure polyurethane adhesive. The blowing agent is water. OlyBond500 does not contain HCFC and has low VOCs.

2.02 COMPATIBILITY

1. **Roof Decks and Substrates:**
   - Structural concrete
   - Gypsum
   - Cementitious wood fiber plank
   - Lightweight insulating concrete
   - Steel (22 gauge or thicker with 6-in. Maximum top flute spacing)
   - Plywood (⅝-inch thick min.)
   - Smooth surface BUR
   - Smooth and granular surface modified bitumen (properly prepared)
   - Existing sprayed in place polyurethane foam
   - Base sheets
   - Most vapor barriers (including asphaltic and fleece-top)
2. **Roof Insulation and Cover Board:**
   - Expanded Polystyrene
   - Polyisocyanurate
   - High Density Wood Fiber
   - Hard Cover Board
   - Perlite
   - Certain Extruded Polystyrene

Any substrate or insulation not listed must be reviewed by OMG. Call 800-633-3800.

2.03 LIMITATIONS

1. OlyBond500 is not recommended for use with isocyanurate board stock larger than 4 feet x 4 feet.
2. OlyBond500 (regular grade) is not recommended for application when ambient or substrate temperatures are below 40°F.
3. OlyBond500 Winter formulation is specifically designed to be applied between 0°F and 65°F for SpotShot cartridges or 25°F to 65°F for Bag-in-Box or Drums.

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4. OlyBond500 is not recommended for use during wet weather.
5. OlyBond500 cannot be used on wet surfaces.
6. OlyBond500 cannot be used on dirty or grease-laden surfaces.
7. OlyBond500 is not recommended for use on any roof deck that shows signs of deterioration or loss of structural integrity.
8. OlyBond500 is not recommended for use after the expiration date. Contact OMG at 800-633-3800 for options and instructions.

Part 3 Execution

3.01 ROOF DECK CRITERIA

1. The building owner or general contractor shall provide a proper substrate. The structure shall be sufficient to withstand normal construction load and live loads.
2. Defects in the deck must be documented and reported to the specifier, general contractor, roof cover manufacturer and OMG, Inc. The application of OlyBond500 shall not proceed unless the defects are corrected.
3. It is the responsibility of the roofing contractor to ensure that the existing roof is adequately attached to the building and meets all the requirements for an acceptable surface.
4. Acceptable decks are structural concrete, gypsum, cementitious wood fiber plank, lightweight insulating concrete, minimum 22-gauge steel, minimum ⅝-inch plywood.

3.02 SURFACE PREPARATION

1. **General.** All surfaces must be dry and free of any debris, dirt, oil or grease before applying OlyBond500.
2. **Specific Conditions**

a. Steel. The bonding surface of steel decks must be dry and free of debris, dirt, grease and oil. On new steel, the shop coating/mill oil must be removed. The bonding surface must be free of any cleaner before applying OlyBond500.

b. Existing Smooth Asphaltic Surfaces. The surface must be dry and free of debris, dirt, grease and oil.

c. Existing Polyurethane Foam. The surface of the polyurethane roof, including the coating, should be removed with a scarifier (minimum ½ inch). The bonding surface should be blown clean before applying OlyBond500.

d. Other Metal. OlyBond500 has excellent adhesion to clean metal. It is recommended that all non-ferrous metals (aluminum, copper, stainless, etc.) be primed to further increase adhesion. Accepted primers include epoxy, chlorinated rubber, and wash primer.

e. Concrete. All concrete surfaces must be fully cured prior to applying OlyBond500.

f. Other. For other substrates not listed, contact OMG at 800-633-3800.

3.03 INSULATION

Review the roofing insulation plan. Polyisocyanurate insulation boards cannot be larger than 4 feet x 4 feet. Multiple layers of boards should use the staggered joint method of application. Compatible insulation other than polyisocyanurate can be 4 feet x 8 feet maximum size.

3.04 PRODUCT INSTALLATION

1. Using PaceCart

a. Install Part 1 and Part 2 components following instructions on Bag-in-Box package or 15 gallon Drum Conversion Kit.

b. Open flow valves on the dispenser completely and turn machine on. This allows adhesive to be pumped at a 1:1 ratio through the disposable mix tip and onto the substrate in a semi-liquid state.

c. Apply fluid mixture in ¾ to 1 inch wide wet beads spaced maximum of 12 inches on center that spreads in excess of 2 inches wide while rising ¾ to 1 inch.

d. Lay insulation board into place and walk-in to assure complete adhesion. Curing typically occurs in 4 to 8 minutes depending on temperature and weather conditions.

e. Check with roof system manufacturer for project-specific spacing requirements.

2. Using SpotShot Applicator

a. Attach the disposable mix tip to the top of the SpotShot tube. Insert the tube into SpotShot dispensing tool and dispense onto the substrate. Apply fluid mixture in rows spaced maximum of 12 inches on center that spread to several inches wide while rising ¾ to 1 inch.

b. Lay insulation board into place and walk-in to assure complete adhesion. Curing typically occurs in 4 to 8 minutes depending on temperature and weather conditions.

c. Check with roof system manufacturer for project-specific spacing requirements.

3.05 TYPICAL COVERAGE RATES

Coverage rates vary depending on surface roughness and absorption rate of the substrate. Typical coverage rates for OlyBond500 dispensed through the PaceCart® are up to 25 squares per 10 gallon Bag-in-Box sets and 75 square per 15 gallon drum sets. Typical coverage rates for OlyBond500 SpotShot dispensed through applicators is 4–6 squares per case (4 sets of 1500 ml cartridges). All coverage rates are based on 12 inch on center maximum spacing. See chart below for typical coverage rates on specific substrates.

APPLICATION RATES (Bag-in-Box Dispensed from PaceCart 2)	TYPICAL COVERAGE Squares/Gallon
Insulation to Concrete	up to 2.5
Insulation to Insulation	up to 2.5
Insulation to Smooth BUR	up to 1.7
Insulation to Modified Bitumen	up to 1.7
Insulation to Gypsum	up to 1.2
Insulation to Lightweight Concrete*	up to 1.7
Insulation to Wood	up to 2.5
Insulation to Cementitious Wood Fiber	up to 1.2
Insulation to Steel	up to 1.2

*Coverage rate may vary substantially based on the absorption rate and/or the surface conditions of the LWC.

3.06 REACTION TIME

It is important to monitor the speed of the reaction in relation to the temperature (substrate and ambient) at time of application to ensure a complete reaction. Note the charts below for correct 'Part 2' component selection:

TYPICAL REACTION TIME CHARACTERISTICS

A. 5 Gallon Bag-in-Box Packaging and 15 Gallon Drums

TEMPERATURE	PART 2 FORMULA	TACK FREE TIME (minutes)	SET UP TIME (minutes)
25°F to 65°F	W	3–4	10–12
40°F +	R	3–5	10–12

B. 1500 ml SpotShot Cartridges

TEMPERATURE	PART 2 FORMULA	TACK FREE TIME (minutes)	SET UP TIME (minutes)
0°F–65°F	W	3–4	10–12
40°F +	R	3–5	10–12

Important: When applying OlyBond500, board stock must be placed into the adhesive shortly after it has reached its maximum rise while it is still wet and tacky and before it reaches its tack free state. Do not install boards if adhesive is skinned-over.

3.07 AVAILABILITY AND COST

OlyBond500 is available throughout the USA and Canada. For availability and pricing contact OMG, Inc. at 800-633-3800. Deliveries directly to job sites and to specific locations are available.

3.08 PRECAUTIONS

1. **IN CASE OF FIRE:** Use water spray, foam or CO_2. Firefighters should be equipped with self-contained breathing apparatus and turnout gear for protection against PMDI vapors and toxic decomposition products. Avoid water contamination in closed container or confined areas.
2. **DO NOT LEAVE ADHESIVE EXPOSED OR UNPROTECTED.** Polyurethane foam or isocyanurate foam products may present a serious fire hazard if exposed or unprotected. Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any of these materials should carefully determine whether there is a potential fire hazard associated with such product in a specific usage and utilize all appropriate precautionary and safety measures as outline in local, state and federal regulations. When not in use keep stored containers closed.

FM APPROVED · MIAMI-DADE COUNTY APPROVED · Florida Building Code · CLASSIFIED UL

PATENT NOTICE

The OMG PaceCart® dispensing cart and the Bag-in-Box OlyBond500® Part 1/Part 2 adhesive system, including the adhesive dispensing method, are covered by one or more of U.S. Patent Nos. 6,220,526; 8,113,385; 8,132,693; 8,167,170; 8,342,372; 8,474,658 and 9,327,308; and Canadian Patent No. 2,591,502, Canadian Patent No. 2,821,451 and U.S. Patent Pending.

OMG ROOFING PRODUCTS 153 BOWLES ROAD, AGAWAM, MA 01001 USA 800-633-3800 OMGROOFING.COM

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AH1011 Rev. 06/02/18

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SHEET A15

ALSAN RS 230 FLASH

SOPREMA

1.800.356.3521
www.soprema.us

TECHNICAL DATA SHEET

ORDER NO.: L-RS022S (summer grade - pebble grey)
L-RS024S (summer grade - traffic white)
L-RS022W (winter grade - pebble grey)
L-RS024W (winter grade - traffic white)

WEIGHT (kg)	COVERAGE	AMBIENT TEMP	SUBSTRATE TEMP	POT LIFE	RAIN PROOF	NEXT LAYER	FULLY CURED
12	43	23-95°F	23-122°F	15	30	60	3
(26.5 lb)	ft² per container	(-5 to 35°C)	(-5 to 50°C)	minutes at 68°F (20°C)	minutes at 68°F (20°C)	minutes at 68°F (20°C)	hours at 68°F (20°C)

DESCRIPTION
Alsan RS 230 Flash is a rapid-curing, proprietary formulation polymethyl methacrylate (PMMA) liquid resin. Alsan RS 230 Flash is combined with Alsan RS Fleece reinforcing fabric to form a flexible and monolithic, reinforced membrane used in SOPREMA roofing and waterproofing flashing applications.

PREPARATION
Using a slow-speed (200 to 400 rpm) mechanical agitator, stir the entire container of resin for two minutes before each use and prior to pouring off resin into a second container if batch mixing. Pre-measure catalyst for the appropriate amount of liquid resin. Catalyze only the amount of material that can be used within 10-15 minutes. Add pre-measured catalyst to the resin component, stir catalyzed batch for two minutes before application.

Refer to catalyst mixing chart for additional information.

APPLICATION
Alsan RS 230 Flash is applied via brush or roller.

Prior to application, refer to published specifications and approved details for complete application instructions. The applicator is responsible for ensuring conditions are appropriate to proceed with application.

PACKAGING
Alsan RS 230 Flash is available in resealable 12 kg cans.

STORAGE
Always store closed containers in cool, ventilated and dry location away from heat and oxidizing agent. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Approximate shelf life is twelve months from date of manufacture when properly stored, sealed and unmixed.

HANDLING
Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink or smoke in the application area.

Consult the Material Safety Data Sheet for additional information pertaining to this product.

F101013

ALSAN RS 230 FLASH

SOPREMA

1.800.356.3521
www.soprema.us

TECHNICAL DATA SHEET

COVERAGE RATES

	kg / ft²	kg / m²	wet mil quantity
Minimum total consumption	0.28	3.0	72 - 86
Base coat consumption	0.19	2.0	50 - 60
Top coat consumption	0.09	1.0	22 - 26

• Coverage rates may vary depending on substrate conditions.
• Mil thickness rate does not take into account polyester fleece reinforcement thickness; measurement is for liquid resin only.

CATALYST MIXING CHART - SUMMER FORMULATION

	2% Catalyst • 60°F to 95°F (15°C to 35°C)			4% Catalyst • 37°F to 59°F (3°C to 15°C)		
Resin quantity	kg	TBSP	0.1 kg Packets	kg	TBSP	0.1 kg Packets
1.0 kg	0.02	2	n/a	0.04	4	n/a
12.0 kg	0.25	25	2.5	0.5	50	5

CATALYST MIXING CHART - WINTER FORMULATION

	2% Catalyst • 50°F to 59°F (10°C to 15°C)			4% Catalyst • 23°F to 50°F (-5°C to 10°C)		
Resin quantity	kg	TBSP	0.1 kg Packets	kg	TBSP	0.1 kg Packets
1.0 kg	0.02	2	n/a	0.04	4	n/a
12.0 kg	0.25	25	2.5	0.5	50	5
1 liter	0.02	2.5	n/a	0.05	5	n/a

PHYSICAL PROPERTIES

Property	Value [1]	Test Method
Membrane Thickness (min.)	115 mils (2.9 mm)	ASTM D 5147 Section 6
Peak Load @ 73°F (avg.)	70 lb/in (12.3 kN/m)	ASTM D 5147 Section 7
Elongation @ Peak Load (avg.)	42%	ASTM D 5147 Section 7
Peak Load @ 73°F (avg.)	90 lbf/in (15.8 kN/m)	ASTM D 412 (dumbbell)
Elongation @ Peak Load (avg.)	55%	ASTM D 412 (dumbbell)
Shore A Hardness (avg.)	72	ASTM D 2240
Water Absorption, Method I (24hr @ 73°F)	0.5%	ASTM D 570
Water Absorption, Method II (48hr @ 122°F)	1.6%	ASTM D 570
Low Temperature Flexibility	-13°F (-25°C)	ASTM D 5147 Section 12
Dimensional Stability (maximum)	< 0.1%	ASTM D 5147 Section 11
Tear Strength (avg.)	105 lbf (0.5 kN)	ASTM D 5147 Section 8
Tensile Strength (avg.)	815 psi (5.6 MPa)	ASTM 412
VOC Content	4.2 g/L	SCAQMD Rule 1113

[1] Values based on reinforced Alsan RS liquid membrane applied at a coverage rate of 3.3 kg/m².

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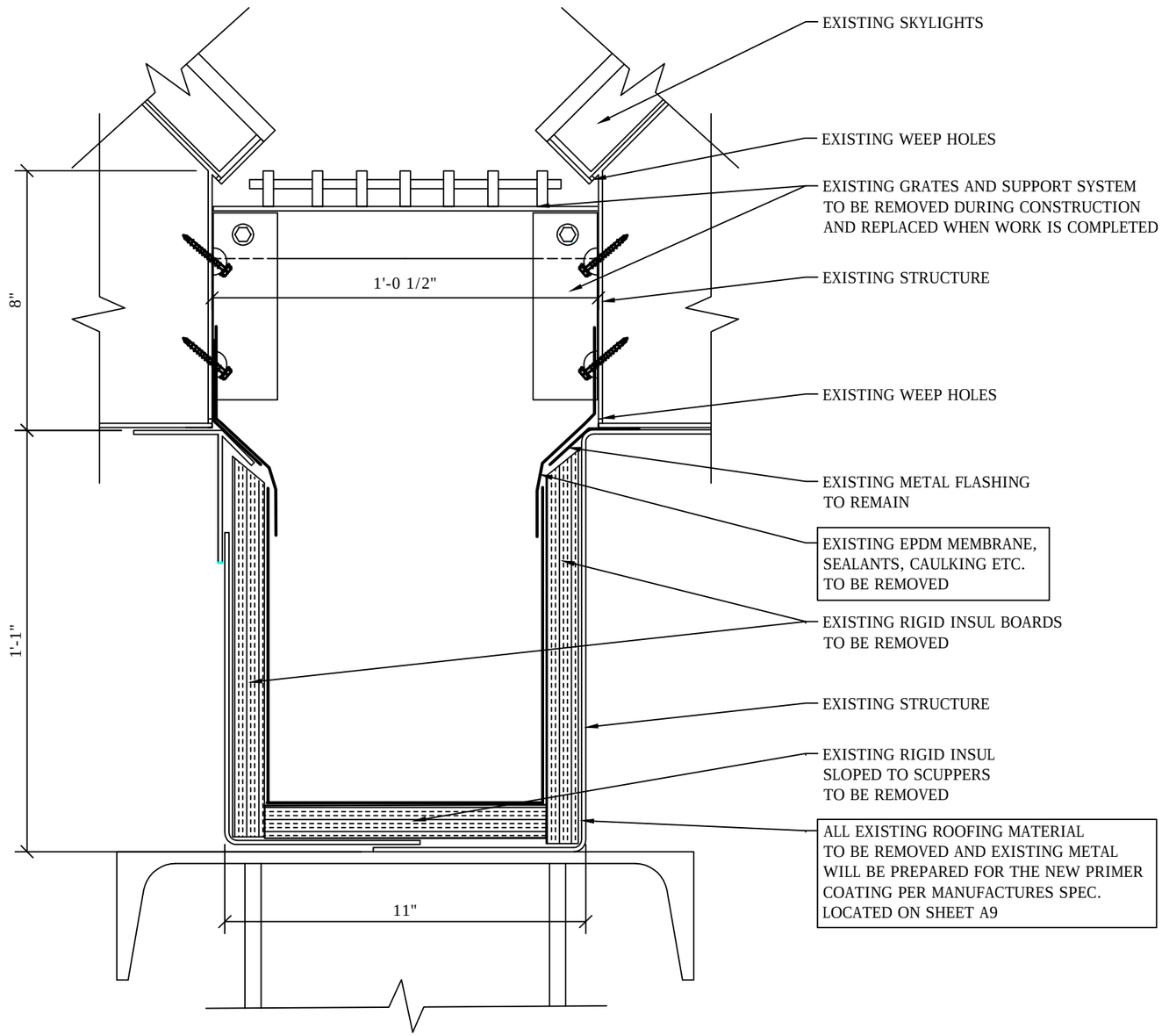

EXISTING SKYLIGHT GUTTER LINER DETAIL

SCALE: 3" = 1'-0"

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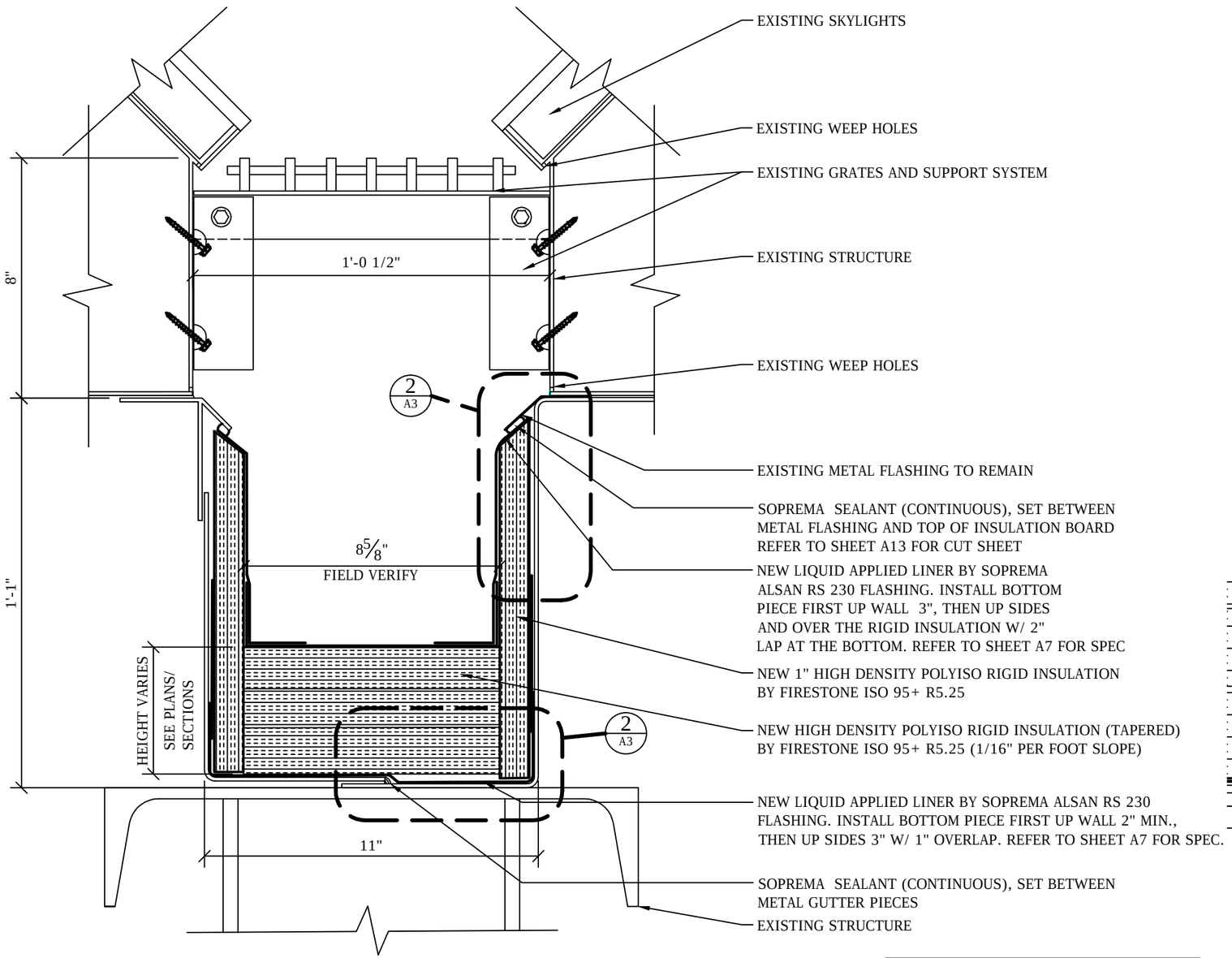
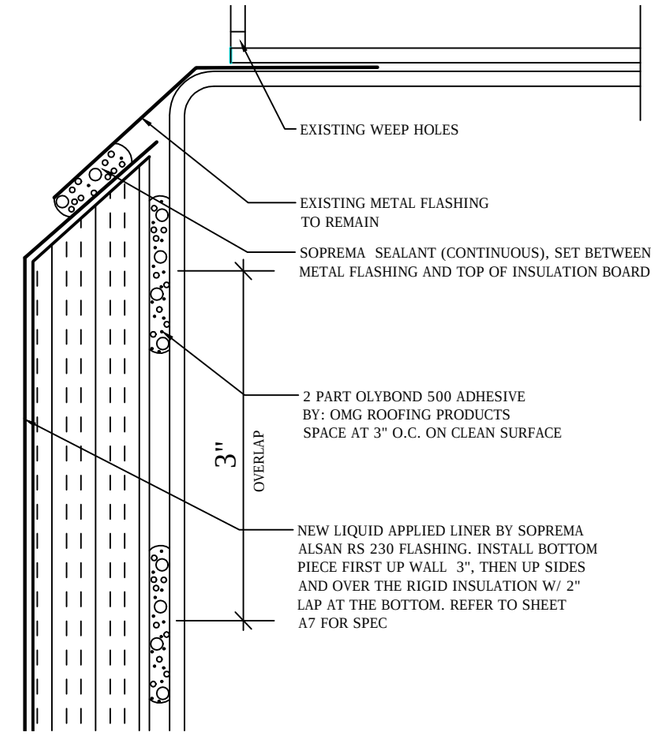
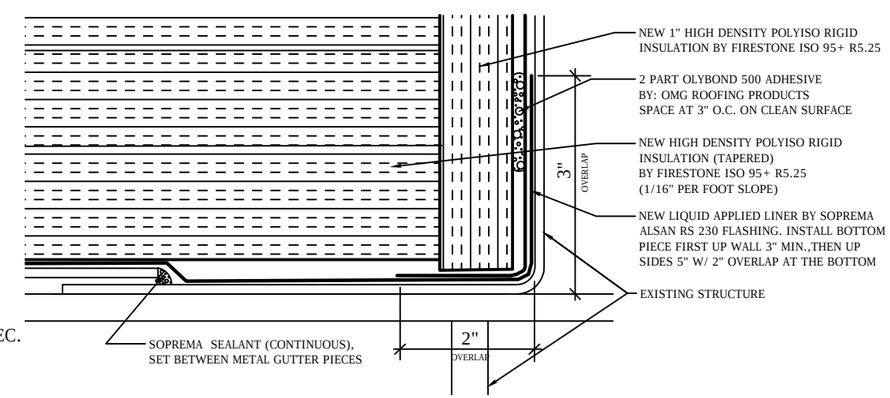


A A3 PROPOSED SKYLIGHT GUTTER LINER DETAIL
SCALE: 3" = 1'-0"



1 A3 BLOW-UP AT WEEP HOLES
SCALE: NOT TO SCALE



2 A3 BLOW-UP AT BOTTOM OF GUTTER
SCALE: NOT TO SCALE

ALL EXISTING ROOFING MATERIAL TO BE REMOVED AND EXISTING METAL WILL BE PREPARED FOR THE NEW PRIMER COATING PER MANUFACTURES SPEC. LOCATED ON SHEET A9

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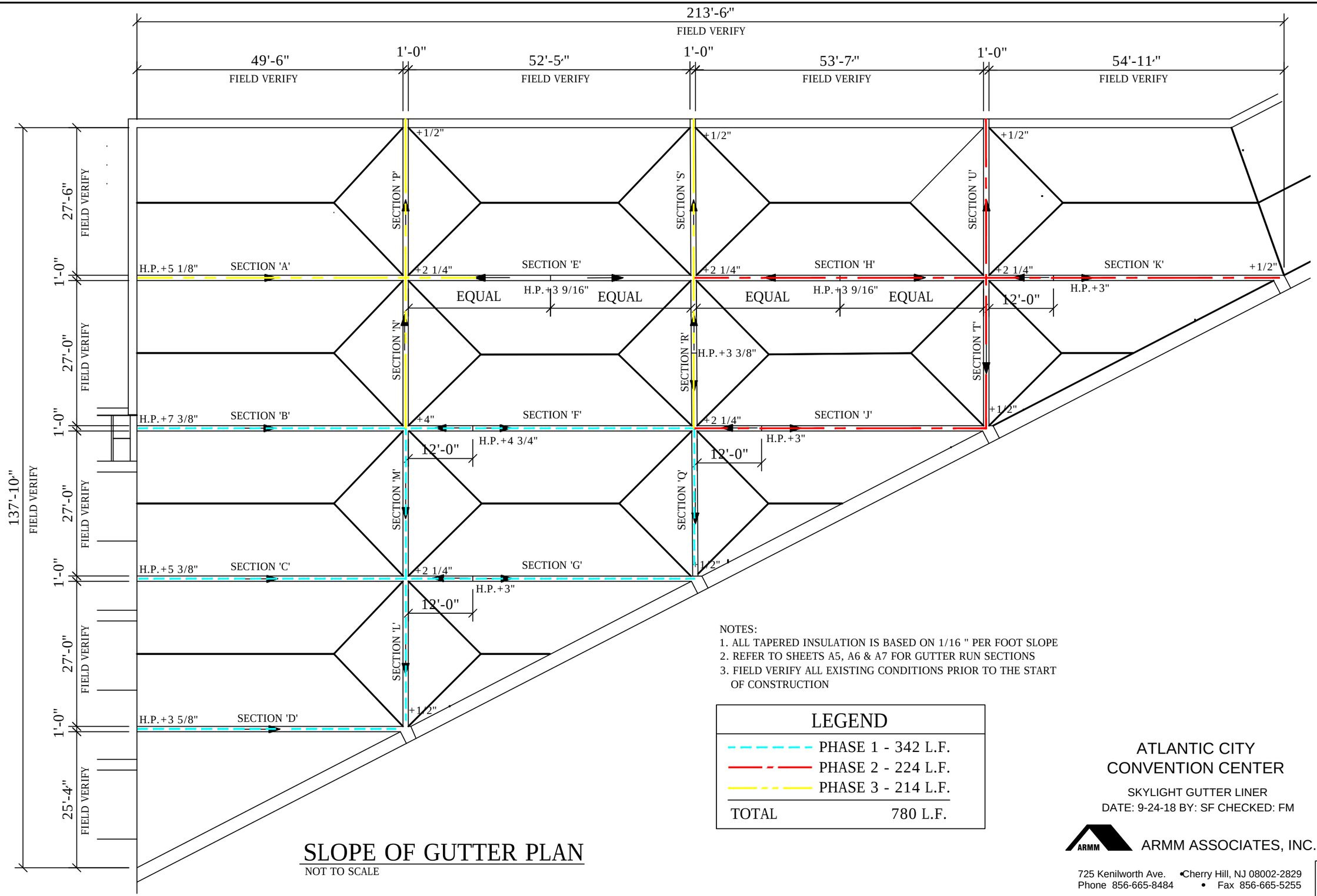

NOTES:
1. ALL TAPERED INSULATION IS BASED ON 1/16 " PER FOOT SLOPE
2. REFER TO SHEETS A5, A6 & A7 FOR GUTTER RUN SECTIONS
3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION

LEGEND	
PHASE 1 - 342 L.F.	
PHASE 2 - 224 L.F.	
PHASE 3 - 214 L.F.	
TOTAL	780 L.F.

SLOPE OF GUTTER PLAN

NOT TO SCALE

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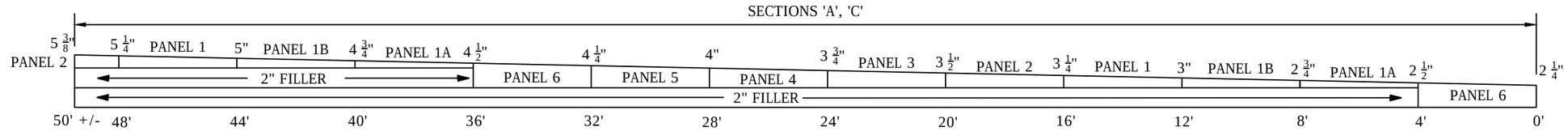
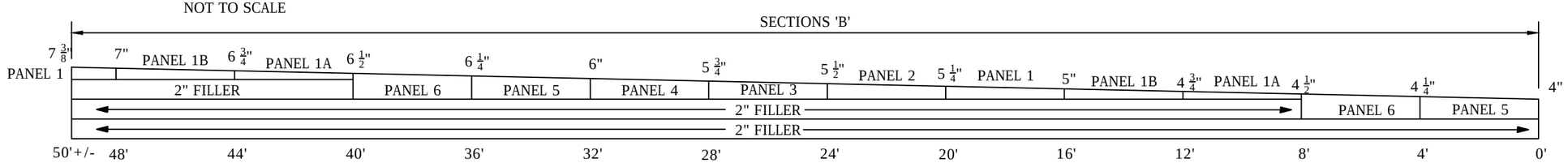


SECTIONS 'A', 'C'

NOT TO SCALE



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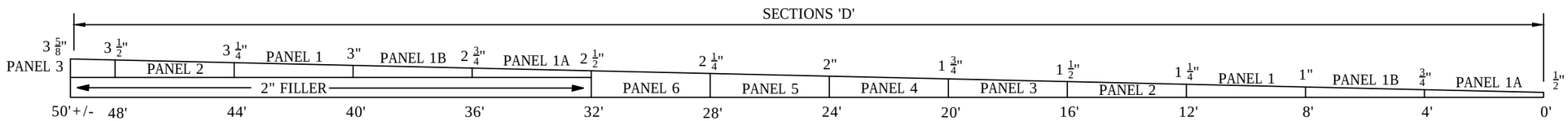

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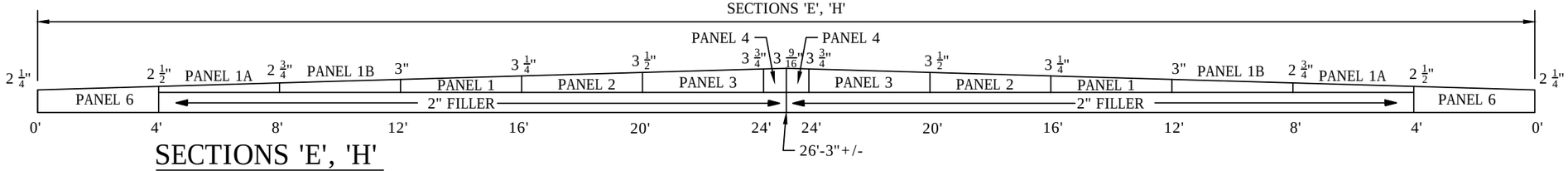

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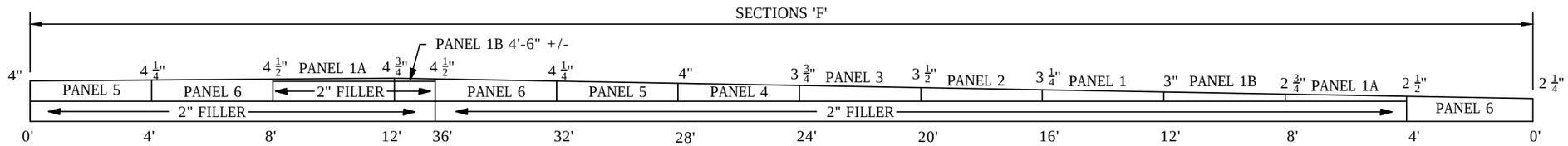

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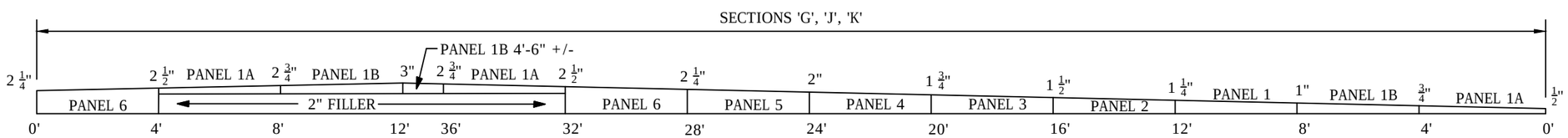

SECTIONS 'G', 'J', 'K'

NOT TO SCALE

TAPERED INSULATION SECTIONS

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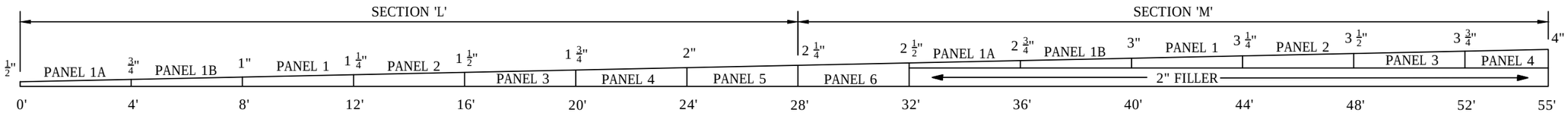

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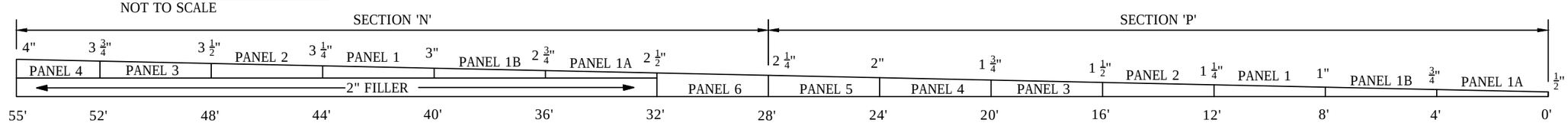

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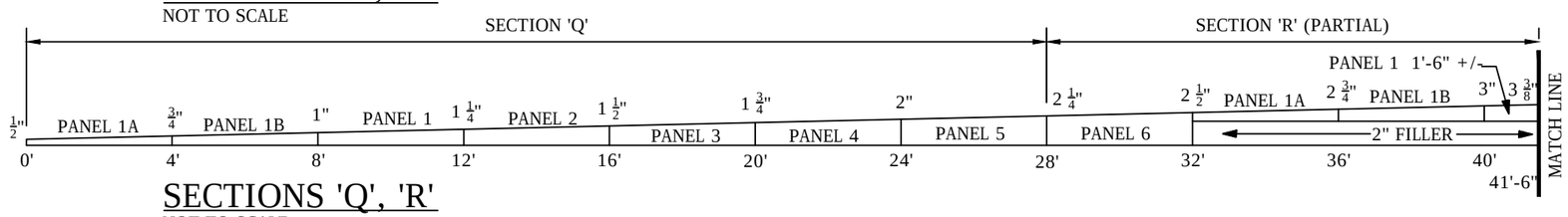

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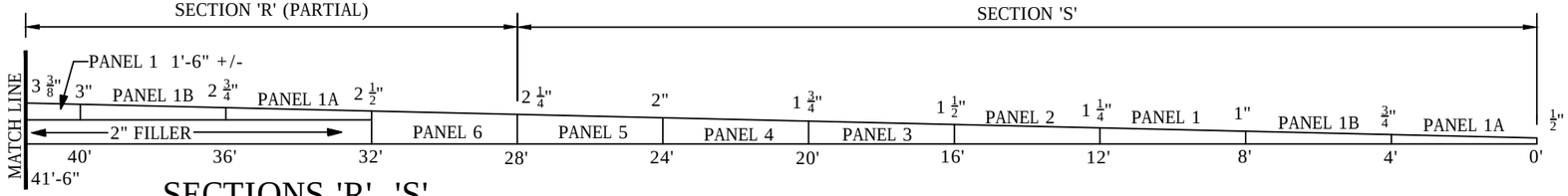

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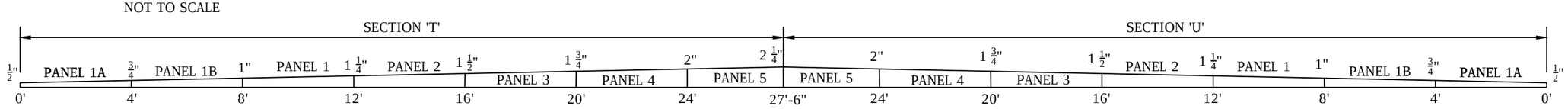

SECTIONS 'T', 'U'

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TAPERED INSULATION SECTIONS

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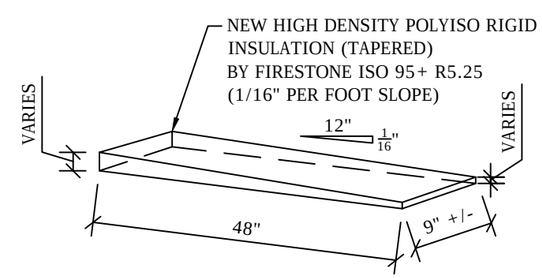

PANEL ISOMETRIC VIEW

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SECTION 07 56 00

COLD LIQUID APPLIED MEMBRANE ROOFING

PART 1 GENERAL

1.01 SUMMARY

A. THE NEW ROOFING AND WATERPROOFING SYSTEM SHALL CONSIST OF A COLD LIQUID APPLIED REINFORCED WATERPROOFING MEMBRANE, FLASHINGS AND FINISH LAYERS AS SPECIFIED.

B. WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
1. PREPARATION OF EXISTING METAL ROOF GUTTER SYSTEM, AND ALL FLASHING SUBSTRATES.
2. LIQUID APPLIED, REINFORCED FLASHINGS.
3. SEALANTS, CAULKING
4. REFER TO RELATED SECTIONS FOR INSULATION SYSTEMS.
5. ALL RELATED MATERIALS AND LABOR REQUIRED TO COMPLETE SPECIFIED WATERPROOFING NECESSARY TO RECEIVE SPECIFIED MANUFACTURER'S WARRANTY.

1.02 RELATED SECTIONS

A. DIVISION 010000 - GENERAL REQUIREMENTS
B. DIVISION 011000 - SUMMARY OF WORK
C. DIVISION 072200 - ROOF INSULATION
D. DIVISION 072713 - MODIFIED BITUMINOUS SHEET VAPOR RETARDERS
E. DIVISION 076200 - SHEET METAL FLASHING AND TRIM

1.03 DEFINITIONS

A. ASTM D 1079- STANDARD TERMINOLOGY RELATING TO ROOFING AND WATERPROOFING.
B. THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING AND WATERPROOFING MANUAL, FIFTH EDITION GLOSSARY.

1.04 REFERENCES

A. AMERICAN SOCIETY OF CIVIL ENGINEERS - REFERENCE DOCUMENT ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
B. AMERICAN STANDARD OF TESTING METHODS (ASTM):
1. ASTM C 836 - STANDARD SPECIFICATION FOR HIGH SOLIDS CONTENT, COLD LIQUID APPLIED ELASTOMERIC WATERPROOFING MEMBRANE FOR USE WITH SEPARATE WEARING COURSE.
2. ASTM C 920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)::
1. ANSI/SPRI/FM 4435/ES-1 - WIND DESIGN STANDARD FOR EDGE SYSTEM USED WITH LOW SLOPE ROOFING SYSTEM.
2. ANSI/SPRI FX-1 - STANDARD FIELD TEST PROCEDURE FOR DETERMINING THE WITHDRAWAL RESISTANCE OF ROOFING FASTENERS.
3. ANSI/SPRI IA-1 - STANDARD FIELD TEST PROCEDURE FOR DETERMINING THE MECHANICAL UPLIFT RESISTANCE OF INSULATION ADHESIVES OVER VARIOUS SUBSTRATES.
4. ANSI/FM 4474 - AMERICAN NATIONAL STANDARD FOR EVALUATING THE SIMULATED WIND RESISTANCE OF ROOF ASSEMBLIES USING STATIC POSITIVE AND/OR NEGATIVE DIFFERENTIAL PRESSURES.
D. FACTORY MUTUAL (FM):
1. FM 4450 - APPROVAL STANDARD - CLASS I INSULATED STEEL ROOF DECKS.
2. FM 4470 - APPROVAL STANDARD - CLASS I ROOF COVERS.
3. INTERNATIONAL CODES COUNCIL (ICC):
2015 INTERNATIONAL BUILDING CODE (IBC).
E. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA).
1. UL 790 - STANDARD TEST METHODS FOR FIRE TESTS OF ROOF COVERINGS.
2. UL 1256 - FIRE TEST OF ROOF DECK CONSTRUCTIONS.

1.05 ACTION SUBMITTALS

A. PRODUCT DATA SHEETS: SUBMIT MANUFACTURER'S PRODUCT DATA SHEETS, INSTALLATION INSTRUCTIONS AND/OR GENERAL REQUIREMENTS FOR EACH COMPONENT.
B. SAFETY DATA SHEETS: SUBMIT MANUFACTURER'S SAFETY DATA SHEETS (SDS) FOR EACH COMPONENT.
C. SAMPLE WARRANTY FROM THE MANUFACTURER AND CONTRACTOR.
D. PROVIDE ROOF PLAN AND REPRESENTATIVE DETAIL DRAWINGS.

1.06 INFORMATIONAL SUBMITTALS

A. SUBMIT A LETTER FROM THE ROOFING MANUFACTURER INDICATING THE CONTRACTOR IS AN AUTHORIZED APPLICATOR.

1.07 CLOSEOUT SUBMITTALS

A. WARRANTY: PROVIDE MANUFACTURER'S AND CONTRACTOR'S WARRANTIES UPON PROJECT COMPLETION.

1.08 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS:
1. MANUFACTURER SHALL HAVE 20 YEARS OF MANUFACTURING EXPERIENCE.
2. MANUFACTURER SHALL HAVE TRAINED TECHNICAL SERVICE REPRESENTATIVES EMPLOYED BY THE MANUFACTURER, INDEPENDENT OF SALES.
3. MANUFACTURER SHALL PROVIDE SITE VISIT REPORTS IN A TIMELY MANNER.
B. CONTRACTOR QUALIFICATIONS:
1. CONTRACTOR SHALL BE AUTHORIZED BY THE MANUFACTURER TO INSTALL SPECIFIED MATERIALS PRIOR TO THE BIDDING PERIOD THROUGH SATISFACTORY PROJECT COMPLETION.
2. APPLICATORS SHALL HAVE COMPLETED PROJECTS OF SIMILAR SCOPE USING SAME OR SIMILAR MATERIALS SPECIFIED.
3. CONTRACTOR SHALL PROVIDE FULL TIME, ON-SITE SUPERINTENDENT OR FOREMAN EXPERIENCED WITH THE SPECIFIED ROOFING FROM BEGINNING THROUGH SATISFACTORY PROJECT COMPLETION.
4. APPLICATORS SHALL BE SKILLED IN THE APPLICATION METHODS FOR ALL MATERIALS.
5. CONTRACTOR SHALL MAINTAIN A DAILY RECORD, ON-SITE, DOCUMENTING MATERIAL INSTALLATION AND RELATED PROJECT CONDITIONS.
6. CONTRACTOR SHALL MAINTAIN A COPY OF ALL SUBMITTAL DOCUMENTS, ON-SITE, AVAILABLE AT ALL TIMES FOR REFERENCE.
C. SUBSTRATE EVALUATION:
1. CONTRACTOR SHALL EVALUATE SUBSTRATE MOISTURE CONTENT AND ADHESION OF WATERPROOFING MATERIALS TO SUBSTRATE THROUGHOUT THE WORK AND RECORD WITH DAILY INSPECTION REPORTS OR OTHER FORM OF REPORTING ACCEPTABLE TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE AND WATERPROOFING MANUFACTURER.
a. MOISTURE CONTENT: EVALUATE SUBSTRATE MOISTURE CONTENT TO DETERMINE ACCEPTABILITY FOR APPLICATION OF THE SPECIFIED LIQUID APPLIED WATERPROOFING MATERIALS. MOISTURE TESTING SHALL BE PERFORMED BY MEANS SUITABLE TO THE PROJECT APPLICATION, OR BY TESTING SUBSTRATE RELATIVE HUMIDITY (RH) IN ACCORDANCE WITH ASTM F 2170 WHEN NEEDED, REQUIRED, OR IF SUBSTRATE MOISTURE CONTENT IS IN QUESTION.
b. ADHESION: EVALUATE SOUNDNESS AND SURFACE PREPARATION OF CONCRETE AND/OR MASONRY SUBSTRATES. PREPARE REPRESENTATIVE AREAS USING SPECIFIED METHODS COMPLETE WITH APPLIED PRIMER AND WATERPROOFING MEMBRANE. TEST FOR MINIMUM ACCEPTABLE TENSILE BOND STRENGTH VALUES AS REQUIRED IN ACCORDANCE WITH ASTM D 4541. EVALUATE ALL AREAS WHERE CONCRETE APPEARS TO DIFFER IN APPEARANCE OR CONSISTENCY, IF MULTIPLE AREAS ARE INVOLVED IN THE SCOPE OF WORK, EVALUATE EACH AREA WITH A MINIMUM OF (3) TESTS FOR EVERY 5,000 FT2 OR AS REQUIRED BY PROJECT CONDITIONS.

1.09 DELIVERY, STORAGE AND HANDLING

A. REFER TO EACH PRODUCT DATA SHEET OR OTHER PUBLISHED LITERATURE FOR SPECIFIC REQUIREMENTS.
B. DELIVER MATERIALS AND STORE THEM IN THEIR UNOPENED, ORIGINAL PACKAGING, BEARING THE MANUFACTURER'S NAME, RELATED STANDARDS, AND ANY OTHER SPECIFICATION OR REFERENCE ACCEPTED AS STANDARD.
C. PROTECT AND STORE MATERIALS IN A DRY, WELL-VENTED, AND WEATHERPROOF LOCATION. ONLY MATERIALS TO BE USED THE SAME DAY SHALL BE REMOVED FROM THIS LOCATION. DURING COLD WEATHER, STORE MATERIALS IN A HEATED LOCATION, REMOVED ONLY AS NEEDED FOR IMMEDIATE USE.
D. WHEN MATERIALS ARE TO BE STORED OUTDOORS, STORE AWAY FROM STANDING WATER, STACKED ON RAISED PALLETS OR DUNNAGE, AT LEAST 4 IN (100 MM) OR MORE ABOVE GROUND LEVEL. CAREFULLY COVER STORAGE WITH "BREATHABLE" TARPAULINS TO PROTECT MATERIALS FROM PRECIPITATION AND TO PREVENT EXPOSURE TO CONDENSATION.
E. CAREFULLY STORE ROOF MEMBRANE MATERIALS DELIVERED IN ROLLS ON-END WITH SELVAGE EDGES UP. STORE AND PROTECT ROLL STORAGE TO PREVENT DAMAGE.
F. PROPERLY DISPOSE OF ALL PRODUCT WRAPPERS, PALLETS, CARDBOARD TUBES, SCRAP, WASTE, AND DEBRIS. ALL DAMAGED MATERIALS SHALL BE REMOVED FROM JOB SITE AND REPLACED WITH NEW, SUITABLE MATERIALS.

1.10 SITE CONDITIONS

A. SAFETY:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PROJECT-RELATED SAFETY AND ENVIRONMENTAL REQUIREMENTS.
2. THE CONTRACTOR SHALL REVIEW PROJECT CONDITIONS AND DETERMINE WHEN AND WHERE CONDITIONS ARE APPROPRIATE TO UTILIZE THE SPECIFIED LIQUID APPLIED OR SEMI-SOLID ROOFING MATERIALS. WHEN CONDITIONS ARE DETERMINED BY THE CONTRACTOR TO BE UNSAFE OR UNDESIRABLE TO PROCEED, MEASURES SHALL BE TAKEN TO PREVENT OR ELIMINATE THE UNSAFE OR UNDESIRABLE EXPOSURES AND CONDITIONS, OR EQUIVALENT APPROVED MATERIALS AND METHODS SHALL BE UTILIZED TO ACCOMMODATE REQUIREMENTS AND CONDITIONS.
3. THE CONTRACTOR SHALL REVIEW PROJECT CONDITIONS AND DETERMINE WHEN AND WHERE CONDITIONS ARE APPROPRIATE TO UTILIZE THE SPECIFIED HOT ASPHALT-APPLIED MATERIALS. WHEN CONDITIONS ARE DETERMINED BY THE CONTRACTOR TO BE UNSAFE OR UNDESIRABLE TO PROCEED, MEASURES SHALL BE TAKEN TO PREVENT OR ELIMINATE THE UNSAFE OR UNDESIRABLE EXPOSURES AND CONDITIONS, OR EQUIVALENT APPROVED MATERIALS AND METHODS SHALL BE UTILIZED TO ACCOMMODATE REQUIREMENTS AND CONDITIONS.
4. THE CONTRACTOR SHALL REFER TO PRODUCT SAFETY DATA SHEETS (SDS) FOR HEALTH, SAFETY, AND ENVIRONMENT RELATED HAZARDS, AND TAKE ALL NECESSARY MEASURES AND PRECAUTIONS TO COMPLY WITH EXPOSURE REQUIREMENTS.
B. ENVIRONMENTAL CONDITIONS:
1. MONITOR SUBSTRATE AND MATERIAL TEMPERATURE, AS WELL AS ALL ENVIRONMENTAL CONDITIONS SUCH AS AMBIENT TEMPERATURE, MOISTURE, SUN, CLOUD COVER, WIND, HUMIDITY, AND SHADE. ENSURE CONDITIONS ARE SATISFACTORY TO BEGIN WORK AND ENSURE CONDITIONS REMAIN SATISFACTORY DURING THE INSTALLATION OF SPECIFIED MATERIALS. MATERIALS AND METHODS SHALL BE ADJUSTED AS NECESSARY TO ACCOMMODATE VARYING PROJECT CONDITIONS. MATERIALS SHALL NOT BE INSTALLED WHEN CONDITIONS ARE UNACCEPTABLE TO ACHIEVE THE SPECIFIED RESULTS.
2. PRECIPITATION AND DEW POINT: MONITOR WEATHER TO ENSURE THE PROJECT ENVIRONMENT IS DRY BEFORE, AND WILL REMAIN DRY, DURING THE APPLICATION OF ROOFING MATERIALS. ENSURE ALL ROOFING MATERIALS AND SUBSTRATES REMAIN ABOVE THE DEW POINT TEMPERATURE AS REQUIRED TO PREVENT CONDENSATION AND MAINTAIN DRY CONDITIONS.
3. CONTRACTOR SHALL IMPLEMENT ODOR CONTROL MEASURES WHERE REQUIRED DURING THE APPLICATION OF WATERPROOFING MATERIALS AND ADJUST METHODS AS NECESSARY TO ACCOMMODATE VARYING PROJECT CONDITIONS.

1.11 PERFORMANCE REQUIREMENTS

A. FIRE CLASSIFICATION:
1. PERFORMANCE TESTING SHALL BE IN ACCORDANCE WITH UL 790, ASTM E108, FM 4450 OR FM 4470 TO MEET THE 1/16":12 TAPERED INSULATION SLOPE REQUIREMENT.
a. MEETS REQUIREMENTS OF UL CLASS A OR FM CLASS A.
2. PERFORMANCE TESTING SHALL BE IN ACCORDANCE WITH UL 1256, FM 4450 OR FM 4470 TO MEET THE SPECIFIED REQUIREMENTS FOR INTERIOR FLAME SPREAD AND FUEL CONTRIBUTION.
a. MEETS REQUIREMENTS OF UL 1256, OR FM CLASS 1.
B. ROOF SLOPE:
1. FINISHED ROOF SLOPE FOR LIQUID APPLIED MEMBRANE SURFACES SHALL BE 1/16" INCH PER FOOT WITH RIGID INSULATION BOARDS FOR ROOF DRAINAGE OR AS ALLOWED BY APPLICABLE BUILDING AND JURISDICTIONAL CODES FOR ROOF ASSEMBLY.
C. IMPACT RESISTANCE:
1. PERFORMANCE TESTING FOR IMPACT RESISTANCE SHALL BE IN ACCORDANCE WITH FM 4450 OR FM 4470 TO MEET THE SPECIFIED IMPACT RESISTANCE REQUIREMENTS.

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1.12 WARRANTY

A. MANUFACTURER'S NO DOLLAR LIMIT (NDL) WATERPROOFING WARRANTY: THE MANUFACTURER SHALL PROVIDE THE OWNER WITH THE MANUFACTURER'S WARRANTY PROVIDING LABOR AND MATERIALS FOR 5 YEARS FROM THE DATE THE WARRANTY IS ISSUED.

B. MANUFACTURER'S SURFACING & FINISH WARRANTY: PROVIDE WATERPROOFING MANUFACTURERS STANDARD WARRANTY FOR REPAIR OF AESTHETIC SURFACING OR FINISH LAYER DUE TO FAILURE IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF 5 YEARS FROM THE DATE OF COMPLETION DEPENDING ON THE SURFACING OPTION SELECTED.

C. THE CONTRACTOR SHALL GUARANTEE THE WORKMANSHIP AND SHALL PROVIDE THE OWNER WITH THE CONTRACTOR'S WARRANTY COVERING WORKMANSHIP FOR A PERIOD OF 2 YEARS FROM COMPLETION DATE.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. SINGLE SOURCE MANUFACTURER: ALL LIQUID APPLIED PMMA/PMA MEMBRANE AND ACCESSORIES SHALL BE MANUFACTURED BY A SINGLE SUPPLIER WITH 20 YEARS OR MORE MANUFACTURING HISTORY IN THE US.

1. COMPLY WITH THE MANUFACTURER'S REQUIREMENTS AS NECESSARY TO PROVIDE THE SPECIFIED WARRANTY.

B. PRODUCT QUALITY ASSURANCE PROGRAM: MANUFACTURER SHALL BE AN ISO 9001 REGISTERED COMPANY. A 'QUALITY COMPLIANCE CERTIFICATE (QCC) FOR REPORTING/CONFIRMING THE TESTED VALUES OF THE MEMBRANE MATERIALS WILL BE SUPPLIED UPON REQUEST.

C. ACCEPTABLE MANUFACTURER:

1. SOPREMA, LOCATED AT: 310 QUADRAL DRIVE, WADSWORTH, OH 44281; TEL: 800-356-3521; TEL: 330-334-0066; WEBSITE: WWW.SOPREMA.US.

2. SIPLAST: LOCATED AT : 1000 ROCHELLE BLVD, IRVINE, TX 75062-3940; TEL: 800-922-8800, LOCAL TEL: 469-995-2200, WEBSITE: WWW.SIPLAST.COM

2.02 LIQUID APPLIED WATERPROOFING SYSTEM

A FLASHING MEMBRANE:

3. POLYMETHACRYLATE FLASHING MEMBRANE (PMA):

a. SOPREMA ALSAN RS 260 LO FLASH: LOW ODOR, RAPID CURING, POLYMETHACRYLATE (PMA) LIQUID RESIN WITH AN EMBEDDED POLYESTER REINFORCEMENT FABRIC USED FOR MONOLITHIC WATERPROOFING FLASHING MEMBRANES.

i. VOC CONTENT: 0.5 G/L

ii. COLOR: BLACK, GREY

4. POLYMETHYL METHACRYLATE FLASHING MEMBRANE (PMMA):

a. SOPREMA ALSAN RS 230 FLASH: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) LIQUID RESIN WITH AN EMBEDDED POLYESTER REINFORCEMENT FABRIC USED FOR MONOLITHIC WATERPROOFING FLASHING MEMBRANES.

i. VOC CONTENT: 4.2 G/L

ii. COLOR: BLACK, GREY

b. SOPREMA ALSAN RS DETAILER: MICRO-FIBER ENHANCED, RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) PASTE RESIN USED FOR FLASHING DIFFICULT PENETRATIONS WHERE A RESIN/FLEECE/RESIN APPLICATION IS NOT PRACTICAL.

i. VOC CONTENT: 2.6 G/L

ii. COLOR: BLACK, GREY

2.02 ACCESSORIES

A. PRIMERS:

1. SOPREMA ALSAN RS 276 PRIMER: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) LIQUID RESIN USED TO PROMOTE ADHESION OF PMMA/PMA MEMBRANES OVER WOOD, CONCRETE AND APPROVED WATERPROOFING BOARD SUBSTRATES.

a. VOC CONTENT: 2.6 G/L

b. COLOR: CLEAR

2. SOPREMA ALSAN RS 222 PRIMER: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) LIQUID RESIN USED TO PROMOTE ADHESION OF PMMA/PMA MEMBRANES OVER ASPHALTIC SUBSTRATES, WOOD, CONCRETE, AND APPROVED WATERPROOFING BOARD SUBSTRATES.

a. VOC CONTENT: 2.5 G/L

b. COLOR: CLEAR

3. SOPREMA ALSAN RS LO PRIMER: LOW ODOR, TWO-PART, EPOXY BASED PRIMER FOR CONCRETE AND APPROVED SUBSTRATES.

a. SOPREMA ALSAN RS LO PRIMER PART A:

i. VOC CONTENT: <100 G/L

ii. COLOR: IVORY

b. SOPREMA ALSAN RS LO PRIMER PART B:

i. VOC CONTENT: <100 G/L

ii. COLOR: WHITE

4. SOPREMA ALSAN RS METAL PRIMER: SOLVENT-BASED PRIMER USED TO IMPROVE THE ADHESION OF PMMA/PMA MEMBRANES TO METAL SUBSTRATES.

a. VOC CONTENT: 50 G/L

b. COLOR: OFF WHITE

5. AQUAFIN VAPORTIGHT COAT SG3 PRIMER: LOW ODOR, TWO-PART, MOISTURE MITIGATION EPOXY BASED PRIMER FOR CONCRETE AND APPROVED SUBSTRATES.

a. AQUAFIN VAPORTIGHT COAT SG3 PART A:

i. VOC CONTENT: 0 G/L

ii. COLOR: CLEAR

b. AQUAFIN VAPORTIGHT COAT SG3 PART B:

i. VOC CONTENT: 0 G/L

ii. COLOR: YELLOWISH

B. CATALYST:

1. SOPREMA ALSAN RS CATALYST POWDER: REACTIVE AGENT USED TO CURE PMMA/PMA LIQUID RESINS.

C. REINFORCING FABRIC:

1. SOPREMA ALSAN RS FLEECE: WOVEN POLYESTER REINFORCEMENT USED IN PMMA/PMA LIQUID APPLIED MEMBRANE AND FLASHING APPLICATIONS.

a. THICKNESS: 30-40 MILS (0.8-1 MM)

b. WEIGHTS: 110 G/M2

c. WIDTH(S): AS SHOWN ON ARMM ASSOCIATES PLANS

d. LENGTH: 164 FT (50 M)

2. SOPREMA ALSAN RS PRE-CUT FLEECE: FACTORY PRE-CUT WOVEN POLYESTER REINFORCEMENT USED FOR A VARIETY OF PENETRATION FLASHINGS IN PMMA/PMA LIQUID APPLIED MEMBRANE AND FLASHING APPLICATIONS.

a. THICKNESS: 30-40 MILS (0.8-1 MM)

b. WEIGHTS: 110 G/M2

c. COMPONENT/SIZE(S): AS SHOWN ON ARMM ASSOCIATES PLANS

D. PASTE AND MORTARS:

1. SOPREMA ALSAN RS PASTE: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) PASTE RESIN USED TO FILL SMALL CRACKS AND VOIDS ON NON-TRAFFIC BEARING SUBSTRATES PRIOR TO THE APPLICATION OF PMMA/PMA MEMBRANES.

a. VOC CONTENT: 4.4 G/L

b. COLOR: GREY

2. POLYMETHACRYLATE MORTAR (PMA):

a. SOPREMA ALSAN RS 263 LO MORTAR: RAPID CURING, POLYMETHACRYLATE (PMA) LIQUID RESIN USED FOR PATCHING, REPAIRS AND LEVELING. CONSISTS OF ALSAN RS 223 POWDER AND ALSAN RS 240 LO LIQUID RESIN

i. SOPREMA ALSAN RS 240 LO: LOW ODOR, RAPID CURING, POLYMETHACRYLATE (PMA) LIQUID RESIN.

a) VOC CONTENT: 1.0 G/L

COLOR: GREY

ii. SOPREMA ALSAN RS 223 POWDER: FILLER.

3. POLYMETHYL METHACRYLATE MORTAR (PMMA):

a. SOPREMA ALSAN RS 233 MORTAR: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) LIQUID RESIN USED FOR PATCHING, REPAIRS AND LEVELING. CONSISTS OF ALSAN RS 223 POWDER AND ALSAN RS 210 LIQUID RESIN.

i. SOPREMA ALSAN RS 210: RAPID CURING, POLYMETHYL METHACRYLATE (PMMA) LIQUID RESIN.

a) VOC CONTENT: 0.3 G/L

COLOR: GREY

ii. ALSAN RS 223 POWDER: FILLER.

E. CLEANER:

1. SOPREMA ALSAN RS CLEANER: CLEAR, BLENDED SOLVENT USED TO CLEAN AND PREPARE PLASTIC AND METAL SURFACES, AND USED TO CLEAN EXISTING ALSAN RS SURFACES PRIOR TO THE APPLICATION OF PMMA/PMA LIQUID APPLIED MEMBRANE AND FLASHINGS.

a. VOC CONTENT: 900 G/L

b. COLOR: CLEAR

PART 3 EXECUTION

3.01 EXAMINATION

A. EXAMINATION INCLUDES VISUAL OBSERVATIONS, QUALITATIVE ANALYSIS, AND QUANTITATIVE TESTING MEASURES AS NECESSARY TO ENSURE CONDITIONS ARE SATISFACTORY TO BEGIN, AND REMAIN SATISFACTORY THROUGHOUT THE PROJECT.

B. THE CONTRACTOR SHALL EXAMINE ALL WATERPROOFING SUBSTRATES INCLUDING, BUT NOT LIMITED TO DECKS, WALLS, CURBS, EQUIPMENT, FIXTURES, AND WOOD BLOCKING.

C. THE APPLICATOR SHALL NOT BEGIN INSTALLATION UNTIL CONDITIONS HAVE BEEN PROPERLY EXAMINED AND DETERMINED TO BE CLEAN, DRY AND, OTHERWISE SATISFACTORY TO RECEIVE SPECIFIED ROOFING AND WATERPROOFING MATERIALS.

3.02 PREPARATION

A. BEFORE COMMENCING WORK EACH DAY THE CONTRACTOR SHALL PREPARE ALL SUBSTRATES TO ENSURE CONDITIONS ARE SATISFACTORY TO PROCEED WITH THE INSTALLATION OF SPECIFIED MATERIALS.

B. PREPARATION OF SUBSTRATES INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. GENERAL:

a. ALL SUBSTRATES MUST BE CLEAN, DRY AND FREE FROM GROSS IRREGULARITIES, LOOSE, UNSOUND OR FOREIGN MATERIAL SUCH AS DIRT, ICE, SNOW, WATER, GREASE, OIL, RELEASE AGENTS, LACQUERS OR ANY OTHER CONDITION THAT WOULD BE DETRIMENTAL TO ADHESION OF PRIMER AND/OR RESIN MATERIALS TO THE SUBSTRATE. MOST SURFACES WILL REQUIRE MECHANICAL ABRASION IN THE FORM OF SCARIFYING, SHOT-BLASTING OR GRINDING TO ACHIEVE A SUITABLE SUBSTRATE.

b. INSPECT ALL SUBSTRATES AND CORRECT DEFECTS BEFORE APPLICATION OF WATERPROOFING MATERIALS. FILL ALL SURFACE VOIDS 1/16 IN (1.5 MM) OR GREATER WIDE AND/OR DEEP WITH APPROPRIATE FILL MATERIAL.

2. CONCRETE SUBSTRATES:

a. CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ACI 301 AND ACI 308.

b. CONCRETE COMPRESSIVE STRENGTH: 3,500 PSI FOR ALL PRIMERS OR 2,500 PSI MINIMUM WHEN USE OF A MOISTURE MITIGATION PRIMER IS REQUIRED.

c. RELATIVE HUMIDITY: MAXIMUM 75 PERCENT PER ASTM F2170 UNLESS OTHERWISE APPROVED.

d. SURFACE: SCARIFY, SHOT-BLAST OR GRIND TO ICRI CONCRETE SURFACE PROFILE CSP 3 TO CSP 5; CSP 3 BEING THE PREFERRED PROFILE.

e. ADHESION: ADHESION OF SPECIFIED PRIMER AND LIQUID APPLIED MEMBRANE SHALL BE MINIMUM 220 PSI FOR TRAFFIC BEARING WATERPROOFING APPLICATIONS OR 116 PSI FOR ROOFING OR NON-TRAFFIC BEARING WATERPROOFING APPLICATIONS PER ASTM D4541.

f. AREAS OF SPALLS, VOIDS, BUG HOLES AND OTHER DETERIORATION ON VERTICAL OR HORIZONTAL SURFACES SHALL BE REPAIRED AS REQUIRED OR RECOMMENDED.

3. MASONRY SUBSTRATES:

a. WALLS SHALL BE STRUCTURALLY SOUND BUILT OF HARD KILN DRIED BRICK, REINFORCED CONCRETE BLOCK, OR WATERPROOF CONCRETE BLOCK CONSTRUCTION.

b. LIQUID APPLIED MEMBRANE MUST NOT BE APPLIED OVER SOFT OR SCALING BRICK OR BLOCK, FAULTY MORTAR JOINTS, OR WALLS WITH BROKEN, DAMAGED OR LEAKING COPING. AREAS OF SPALLS, VOIDS, BUG HOLES AND OTHER DETERIORATION ON VERTICAL SURFACES SHALL BE REPAIRED AS REQUIRED OR RECOMMENDED.

c. WALLS OF ORDINARY HOLLOW TILE, OR OTHER MATERIALS WHICH IN THEMSELVES ARE NOT WATERPROOFED, SHOULD NOT BE ACCEPTED AS SUITABLE TO RECEIVE LIQUID APPLIED MEMBRANE UNLESS PROPERLY WATERPROOFED TO PREVENT MOISTURE INFILTRATION FROM ABOVE OR BEHIND THE NEW LIQUID APPLIED MEMBRANE.

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d. RELATIVE HUMIDITY: MAXIMUM 75 PERCENT PER ASTM F2170 UNLESS OTHERWISE APPROVED.

e. SURFACE: SCARIFY, SHOT-BLAST OR GRIND TO ICRI CONCRETE SURFACE PROFILE CSP 2 TO CSP 4.

f. ADHESION: ADHESION OF SPECIFIED PRIMER AND LIQUID APPLIED MEMBRANE SHALL BE MINIMUM 220 PSI FOR TRAFFIC BEARING WATERPROOFING APPLICATIONS OR 116 PSI FOR ROOFING OR NON-TRAFFIC BEARING WATERPROOFING APPLICATIONS PER ASTM D4541.

4. METAL SUBSTRATES: (APPLIES TO THIS PROJECT)

a. CLEAN AND PREPARE METAL TO NEAR-WHITE METAL IN ACCORDANCE WITH SSPC - SP3 (POWER TOOL CLEAN) TO A POINT MAXIMUM 1/8 IN (3 MM) BEYOND THE TERMINATION OF LIQUID APPLIED MEMBRANE MATERIALS AND WIPE WITH SOLVENT CLEANER TO REMOVE OILS, DEBRIS OR CONTAMINANTS.

b. STAINLESS STEEL SERIES 300 AND 400: ABRADE TO PROVIDE ROUGH, OPEN SURFACE AND WIPE WITH SOLVENT CLEANER TO REMOVE OILS, DEBRIS OR CONTAMINANTS.

c. GALVANIZED & ZINC-RICH METALS: GALVANIZED AND/OR ZINC RICH METALS ARE COATED WITH EITHER A LAYER OF OIL TO PREVENT WHITE RUST OR IS PASSIVATED WHICH MUST BE COMPLETELY REMOVED PRIOR TO APPLYING PRIMER OR LIQUID APPLIED WATERPROOFING. THIS CAN BE CONFIRMED BY APPLYING A COAT OF COPPER SULFATE SOLUTION TO THE PREPARED AND CLEANED GALVANIZED/ZINC METAL. A PROPERLY PREPARED SURFACE WILL TURN BLACK INDICATING THE PASSIVATOR HAS BEEN REMOVED. IF THE SURFACE DOES NOT TURN BLACK, ADDITIONAL ABRASIVE CLEANING WILL BE REQUIRED.

d. ADHESION: EXAMINE METAL SUBSTRATES BY CONDUCTING ADHESION TESTING. PRIME WITH SPECIFIED METAL PRIMER WHERE REQUIRED TO ACHIEVE ADEQUATE ADHESION.

5. RIGID PLASTICS (PVC & ABS): (MAY NOT APPLY)

a. RIGID PLASTICS SHOULD BE LIGHTLY ABRADED AND WIPED WITH SOLVENT CLEANER. EXTEND PREPARATION MAXIMUM 1/8 IN (3 MM) BEYOND THE SPECIFIED TERMINATION OF THE LIQUID APPLIED MEMBRANE FLASHING MATERIALS.

6. WOOD SUBSTRATES: (MAY NOT APPLY)

a. PROVIDE SANDED ¾ IN (19 MM) MINIMUM THICKNESS APA A-C, GROUP 1, EXTERIOR OR EXPOSURE 1, 48 IN (1220 MM) X 96 IN (2440 MM) TONGUE & GROOVE SHEATHING PANELS. INSTALL ALL PANELS WITH "A" SIDE UP, EDGES SUPPORTED BY BLOCKING OR STRUCTURAL FRAMING, FASTENED USING ONLY NON-CORROSIVE SCREW FASTENERS WITH HEADS INSTALLED FLUSH WITH SHEATHING APPLIED AT 6 IN (150 MM) MINIMUM O.C. ALONG PANEL EDGES AND 12 IN (300 MM) O.C. OVER INTERMEDIATE SUPPORTS AND/OR ADDITIONAL FASTENING AS REQUIRED BY JURISDICTIONAL CODES. ALL NEW PLYWOOD SUBSTRATES SHALL BE STRUCTURAL PANELS PERFORMANCE-RATED PURSUANT TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) VOLUNTARY PRODUCT STANDARD PS-1-95; IDENTIFIED WITH AMERICAN PLYWOOD ASSOCIATION (APA) GRADE DESIGNATIONS.

b. HYGROSCOPIC BUILDING MATERIALS SUCH AS WOOD PLANK, TIMBER OR PLYWOOD WILL NORMALLY HAVE HIGHER MOISTURE CONTENT (IN THE RANGE OF 8% TO 12%) AS THEY ADSORB OR DESORB MOISTURE TO REACH EQUILIBRIUM MOISTURE CONTENT WITH THE SURROUNDING AIR. COLD LIQUID APPLIED PRIMER AND REINFORCED MEMBRANE SHOULD NOT BE APPLIED TO DAMP OR WET SHEATHING MATERIALS, BUT MAY BE APPLIED TO MATERIALS WITH HIGHER MOISTURE CONTENTS AS INDICATED ABOVE, PROVIDED THE EXPOSED SURFACE IS CLEAN AND DRY. ULTIMATELY, DETERMINATIONS OF MOISTURE CONTENT AND THE RESULTING BOND STRENGTH SHOULD BE PERFORMED PERIODICALLY TO DETERMINE ACCEPTABILITY. IF POOR ADHESION OR BLISTERING OCCURS, SUBSTRATE WILL REQUIRE ADDITIONAL DRYING TIME BEFORE PROCEEDING.

c. AFTER PRIMING PLYWOOD PANELS, FILL JOINT GAPS, HOLES AND CRACKS WITH PROPRIETARY PMMA PASTE OR PMMA MORTAR. ALL JOINTS MUST BE COVERED WITH MINIMUM 1 IN (25 MM) WIDE BOND BREAKER TAPE FOLLOWED WITH MINIMUM 6 IN (150 MM) WIDE STRIPS OF COLD LIQUID APPLIED REINFORCED WATERPROOFING MEMBRANE CENTERED OVER JOINT. COVER KNOT HOLES OR CRACKS WITH STRIPS OF COLD LIQUID APPLIED REINFORCED WATERPROOFING MEMBRANE.

7. ACCEPTABLE RIGID INSULATION & ROOF COVER BOARDS:

a. AFTER PANELS, FILL JOINT GAPS, HOLES AND CRACKS WITH PROPRIETARY PMMA PASTE OR PMMA MORTAR. ALL JOINTS MUST BE COVERED WITH MINIMUM 6 IN (150 MM) WIDE STRIPS OF COLD LIQUID APPLIED REINFORCED WATERPROOFING MEMBRANE CENTERED OVER JOINT.

8. SINGLE PLY AND OTHER FLASHING SURFACES:

a. REMOVE ALL CONTAMINANTS AND PREPARE SUBSTRATE AS NEEDED TO RECEIVE LIQUID APPLIED WATERPROOFING.

b. ADHESION: EXAMINE SUBSTRATES BY CONDUCTING ADHESION TESTING. PRIME WITH SPECIFIED PRIMER WHERE REQUIRED TO ACHIEVE ADEQUATE ADHESION.

C. WHERE CONDITIONS ARE FOUND TO BE UNSATISFACTORY, WORK SHALL NOT BEGIN UNTIL CONDITIONS ARE ADJUSTED APPROPRIATELY. COMMENCING OF WORK SHALL INDICATE CONTRACTOR'S ACCEPTANCE OF CONDITIONS.

3.03 PRIMER APPLICATION (GENERAL)

A. REFER TO MANUFACTURER'S DETAIL DRAWINGS, PRODUCT DATA SHEETS AND PUBLISHED GENERAL REQUIREMENTS FOR APPLICATION RATES AND SPECIFIC INSTALLATION INSTRUCTIONS.

B. EXAMINE ALL SUBSTRATES AND CONDUCT ADHESION PEEL TESTS AS NECESSARY TO ENSURE SATISFACTORY ADHESION IS ACHIEVED.

3.04 PMMA PRIMER APPLICATION (SOPREMA ALSAN RS 276/222)

A. MIX PRIMER RESIN AND CATALYST APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF PRIMER THAT CAN BE USED WITHIN THE APPLICATION TIME.

B. APPLY THE APPROPRIATE SPECIFIED PRIMER TO DRY, COMPATIBLE SUBSTRATES AS REQUIRED TO ENHANCE ADHESION OF NEW SPECIFIED WATERPROOFING MATERIALS.

C. APPLY PRIMER USING BRUSH OR ROLLER AT THE RATE PUBLISHED ON THE PRODUCT DATA SHEET. DO NOT ALLOW PRIMER TO POND OR COLLECT IN LOW AREAS.

D. PROJECT CONDITIONS VARY THROUGHOUT THE DAY. MONITOR CHANGING CONDITIONS, AND THE CURING TIME OF PRIMERS.

E. ALLOW PRIMER TO FULLY CURE BEFORE MEMBRANE APPLICATION.

3.05 EPOXY PRIMER APPLICATION (SOPREMA ALSAN RS LO PRIMER)

A. LOW ODOR PRIMER APPLICATIONS:

1. MIX A AND B PARTS USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF PRIMER THAT CAN BE USED WITHIN THE APPLICATION TIME.

2. APPLY PRIMER TO COMPATIBLE, CLEAN AND PREPARED SUBSTRATE PREFERABLY WITH FALLING TEMPERATURE TO REDUCE POTENTIAL FOR PINHOLES FROM "OFF-GASSING" AND AS REQUIRED TO ENHANCE ADHESION OF NEW SPECIFIED WATERPROOFING MATERIALS.

3. APPLY PRIMER USING NOTCHED SQUEEGEE AND ROLLER OR BRUSH AT THE RATE PUBLISHED ON THE PRODUCT DATA SHEET. DO NOT ALLOW PRIMER TO POND OR COLLECT IN LOW AREAS.

4. WHEN PRIMER WILL BE LEFT EXPOSED BEYOND RECOMMENDED RECOAT TIMES, BROADCAST TO EXCESS WITH #1 (0.7 - 1.2MM) KILN-DRIED QUARTZ INTO THE FINAL COAT OF EPOXY PRIMER WHILE STILL WET AT THE RATE OF 140 LBS/100 FT2 (7.0 KG/M2) AS A MECHANICAL BONDING LAYER. AFTER CURE, REMOVE LOOSE AGGREGATE AND KEEP DRY UNTIL SUBSEQUENT SYSTEM COMPONENTS ARE APPLIED.

5. PROJECT CONDITIONS VARY THROUGHOUT THE DAY. MONITOR CHANGING CONDITIONS, AND THE CURING TIME OF PRIMERS.

ALLOW PRIMER TO FULLY CURE AND REMOVE EXCESS AGGREGATE BEFORE MEMBRANE APPLICATION.

3.06 METAL PRIMER APPLICATION (SOPREMA ALSAN RS METAL PRIMER)

A. MIX PRIMER RESIN APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF PRIMER THAT CAN BE USED WITHIN THE APPLICATION TIME.

B. APPLY THE APPROPRIATE SPECIFIED PRIMER TO DRY, COMPATIBLE SUBSTRATES AS REQUIRED TO ENHANCE ADHESION OF NEW SPECIFIED WATERPROOFING MATERIALS.

C. APPLY PRIMER USING BRUSH OR ROLLER AT THE RATE PUBLISHED ON THE PRODUCT DATA SHEET. DO NOT ALLOW PRIMER TO POND OR COLLECT IN LOW AREAS.

D. PROJECT CONDITIONS VARY THROUGHOUT THE DAY. MONITOR CHANGING CONDITIONS, AND THE CURING TIME OF PRIMERS.

E. ALLOW PRIMER TO FULLY CURE BEFORE MEMBRANE APPLICATION.

3.07 SUBSTRATE PATCHING, LEVELING & REPAIR (SOPREMA ALSAN RS PASTE OR ALSAN RS 233/RS 263 MORTAR)

A. GENERAL:

1. AFTER PRIMING AND BEFORE COMMENCING WITH APPLICATION OF LIQUID APPLIED WATERPROOFING, THE CONTRACTOR SHALL PATCH, LEVEL OR REPAIR ALL SUBSTRATES AS REQUIRED TO ELIMINATE BUG HOLES, VOIDS, CAVITIES, LOW SPOTS, REPAIR CRACKS OR ANY OTHER CONDITION THAT MAY BE DETRIMENTAL TO PROPER APPLICATION OF THE LIQUID APPLIED WATERPROOFING.

B. PATCHING, LEVELING & REPAIRS:

1. CONTRACTOR SHALL USE PROPRIETARY PASTE OR RESIN-MORTAR FOR ALL PATCHING, LEVELING OR REPAIRS WHEREVER POSSIBLE. REFER TO MANUFACTURER'S DETAIL DRAWINGS, PRODUCT DATA SHEETS AND PUBLISHED GENERAL REQUIREMENTS FOR APPLICATION RATES AND SPECIFIC INSTALLATION INSTRUCTIONS.

2. TRAFFIC BEARING SUBSTRATES: USE ONLY RESIN-MORTAR FOR ALL SUBSTRATE LEVELING, PATCHING AND REPAIRS.

3. NON-TRAFFIC BEARING HORIZONTAL OR VERTICAL SUBSTRATES: USE PASTE OR RESIN-MORTAR FOR ALL SUBSTRATE LEVELING, PATCHING AND REPAIRS.

4. APPLICATION:

a. INSTALL PASTE OR RESIN-MORTAR OVER A FULLY CURED PRIMER.

b. THE SUBSTRATE SHALL BE DRY AND FREE OF ANY DUST OR LOOSE PARTICLES.

c. MIX PASTE RESIN AND/OR RESIN-MORTAR USING A SLOW SPEED AGITATOR PRIOR TO POURING INTO A LARGER CONTAINER.

d. WHEN REQUIRED, COMBINE THE PASTE OR RESIN-MORTAR WITH #1 (0.7 - 1.2MM) KILN-DRIED QUARTZ AGGREGATE AS RECOMMENDED FOR DEEP VOIDS OR LARGE AREAS.

e. MIX PASTE AND/OR RESIN-MORTAR AND CATALYST APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF PRODUCT THAT CAN BE USED WITHIN THE APPLICATION TIME.

f. APPLY THE CATALYZED PASTE AND/OR RESIN-MORTAR ONTO THE SUBSTRATE USING A SMOOTHING

F. MOVING (DYNAMIC) CRACKS - GREATER THAN 3 MM:

1. MOVING CRACKS GREATER THAN 3 MM MUST BE TREATED AS AN EXPANSION JOINT.

PART 2

2.01 INSTALLATION & STAGING

A. IN A NORMAL COLD LIQUID APPLIED MEMBRANE APPLICATION THE SUBSTRATE IS PREPARED AND PRIMED, FLASHINGS ARE INSTALLED, FOLLOWED BY THE APPLICATION OF THE WATERPROOFING MEMBRANE AND FINISH. THE TOP-COATED WILL BE FINISH THE SAME DAY OF APPLICATION WHENEVER POSSIBLE.

B. IF WORK IS INTERRUPTED FOR MORE THAN 12 HOURS USE MANUFACTURER'S PROPRIETARY CLEANER TO CLEAN AND REACTIVATE APPLIED PRIMER, RESIN MORTAR, FLASHING MEMBRANE OR FIELD MEMBRANE TRANSITION AREAS. CLEANER SHOULD BE ALLOWED A MINIMUM OF 20 MINUTES EVAPORATION TIME AFTER APPLICATION AND COVERED WITHIN 60 MINUTES OF APPLICATION OR AS RECOMMENDED BY THE MANUFACTURER.

2.02 FLASHING MEMBRANE APPLICATION SOPREMA ALSAN RS 230 FLASH

A. GENERAL:

1. REFER TO ARMM ASSOCIATES AND MANUFACTURER'S DETAIL DRAWINGS, PRODUCT DATA SHEETS AND PUBLISHED GENERAL REQUIREMENTS FOR APPLICATION RATES AND SPECIFIC INSTALLATION INSTRUCTIONS.

2. PROVIDE A MINIMUM VERTICAL HEIGHT (AS SHOWN ON THE ARMM ASSOCIATES PLANS) FOR ALL FLASHING TERMINATIONS WHEREVER POSSIBLE. FLASHING HEIGHT SHALL BE AT LEAST AS HIGH AS THE POTENTIAL WATER LEVEL THAT COULD BE REACHED AS A RESULT OF A DELUGING RAIN AND/OR POOR SLOPE.

3. DO NOT FLASH OVER EXISTING THROUGH-WALL FLASHINGS, WEEP HOLES AND OVERFLOW SCUPPERS.

4. ALL FLASHING SHALL BE TERMINATED AS REQUIRED BY THE MANUFACTURER. CAP FLASHINGS OR COUNTER FLASHINGS MAY BE CONSTRUCTED OF METAL, STONE, TILE OR OTHER MATERIALS PROPERLY INSTALLED IN ACCORDANCE WITH INDUSTRY-ACCEPTED PRACTICE.

5. INSTALL ALL FLASHING MEMBRANES BEFORE INSTALLING FIELD MEMBRANES.

6. THE PRIMED SUBSTRATE SHALL BE DRY AND FREE OF ANY DUST, LOOSE PARTICLES OR CONTAMINANTS.

7. PRECUT REINFORCING FLEECE TO CONFORM TO TERMINATIONS, TRANSITIONS AND PENETRATIONS BEING FLASHED. ENSURE A MINIMUM 2 IN (50 MM) OVERLAP OF FLEECE AT SIDE LAPS AND EXTEND FLASHING 4 IN (100 MM) MINIMUM HORIZONTALLY ONTO DECK UNLESS OTHERWISE SPECIFIED. ENSURE THE COMPLETED LIQUID APPLIED FLASHING MEMBRANE IS FULLY REINFORCED.

8. WHEREVER POSSIBLE FACTORY PRE-CUT FLEECE PIPE PENETRATION AND UNIVERSAL CORNERS SHALL BE USED.

9. MIX WATERPROOFING RESIN AND CATALYST APPROXIMATELY 2 MINUTES USING A CLEAN SPIRAL AGITATOR ON SLOW SPEED OR STIR STICK UNTIL EVENLY MIXED. DO NOT AERATE. MIX ONLY THE AMOUNT OF WATERPROOFING RESIN THAT CAN BE USED WITHIN THE APPLICATION TIME.

10. APPLY THE BASE COAT OF CATALYZED WATERPROOFING RESIN ONTO THE SUBSTRATE USING A BRUSH OR ROLLER, WORKING THE MATERIAL INTO THE SURFACE FOR COMPLETE COVERAGE AND FULL ADHESION.

11. IMMEDIATELY APPLY THE REINFORCING FLEECE INTO THE WET BASE COAT OF RESIN MAKING SURE THE SMOOTH SIDE IS UP. USING A BRUSH OR ROLLER, WORK THE REINFORCING FABRIC INTO THE WET RESIN WHILE APPLYING THE SECOND COAT OF CATALYZED WATERPROOFING RESIN TO COMPLETELY ENCAPSULATE THE FLEECE. AVOID ANY FOLDS AND WRINKLES.

12. AT MEMBRANE TIE-INS, CLEAN CURED MEMBRANE WITH SPECIFIED CLEANER BEFORE APPLICATION OF ADJACENT MEMBRANE.

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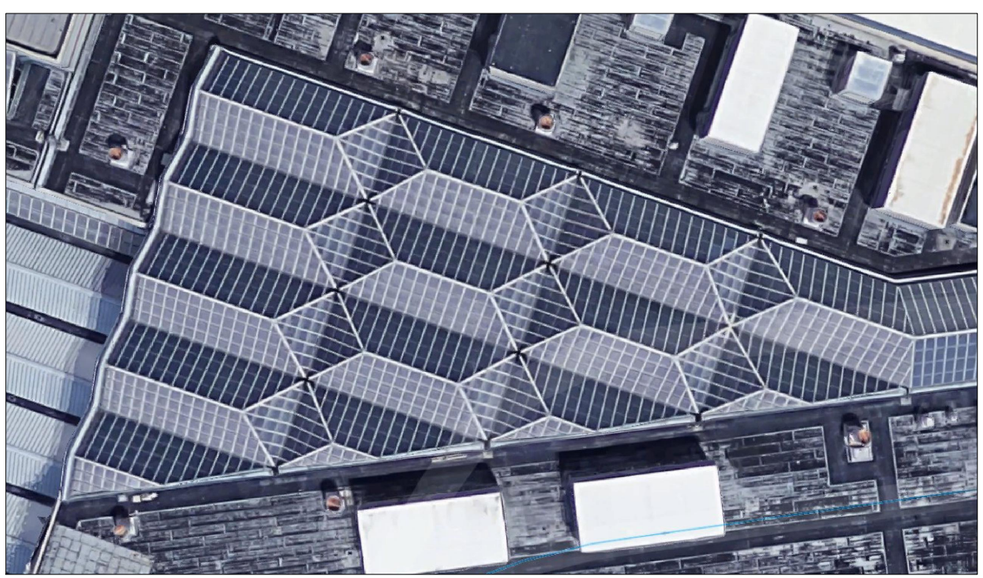
PROFESSIONAL SEAL

SITE LOCATION PLAN
NOT TO SCALE



EXISTING ARIAL SKYLIGHT PHOTO
NOT TO SCALE

DRAWING LIST

CS COVER SHEET
A1 EXISTING SKYLIGHT ROOF PLAN
A2 EXISTING SKYLIGHT GUTTER PLAN
A3 PROPOSED SKYLIGHT GUTTER LINER DETAILS
A4 GUTTER SLOPING PLAN
A5 TAPERED INSULATION SECTIONS
A6 TAPERED INSULATION SECTIONS
A7 SPECIFICATIONS
A8 SPECIFICATIONS
A9 SPECIFICATIONS
A10 SPECIFICATIONS
A11 PRODUCT CUT SHEETS
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A14 PRODUCT CUT SHEETS
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A16 PRODUCT CUT SHEETS

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GENERAL NOTES:

1. THE CONTRACTOR WILL INFORM THE OWNER IN ADVANCE OF THE SECTION OF ROOF TO BE WORKED ON THE FOLLOWING DAY SO THAT THE OWNER'S PERSONNEL MAY MAKE PROPER PREPARATIONS TO PROTECT EQUIPMENT AND RECORDS FROM THE DIRT AND DEBRIS WHICH MAY FALL.

2. NO GUTTER AREA WILL BE LEFT UNCOMPLETED OVERNIGHT. THE CONTRACTOR WILL CONSTRUCT AS SPECIFIED, WATERTIGHT WATER STOPS AT THE END OF EACH DAY'S WORK OR AT THE SIGN OF INCLEMENT WEATHER

3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COLLECT AND ACCOUNT FOR ALL IDENTIFICATION PASSES WHICH MAY BE ISSUED TO HIS PERSONNEL EITHER AT THE END OF THE CONTRACT OR WHEN NO LONGER REQUIRED. THE CONTRACTOR WILL COMPLY WITH ALL SECURITY REGULATIONS CURRENTLY ENFORCED BY THE OWNER AND/OR TOWNSHIP. CONTRACTOR'S PERSONNEL WILL NOT BE PERMITTED INSIDE THE BUILDING BEYOND AGREED UPON ACCESS ROUTES TO ACCESS THE ROOF.

4. THE OWNER AND THE OWNER'S REPRESENTATIVES WILL HAVE FREE ACCESS TO ALL PORTIONS OF THE WORK SITE AT ALL TIMES FOR THE PURPOSE OF MONITORING THE WORK.

5. THE CONTRACTOR WILL MAINTAIN ONE SET OF THESE PLANS AND ASSOCIATED SPECIFICATIONS ON THE ROOF AT ALL TIMES FOR REFERENCE, WHILE HIS FORCE ARE WORKING ON THE ROOF.

6. DURING CONSTRUCTION, THE CONTRACTOR WILL MAINTAIN A CLEARLY DELINEATED SET OF MARKED PRINTS OF THE CONTRACT DRAWINGS DENOTING ANY CHANGES (EITHER FIELD OR BY AMENDMENT) IN DESIGN OR MATERIALS. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL PROVIDE ONE COMPLETE SET OF MARKED AS-BUILT DRAWINGS TO THE OWNER.

7. EXISTING CURB HEIGHTS AND OR PIPE PENETRATIONS ETC. ARE INDICATED ON THE ROOF PLAN THUSLY, (8"). ALL CURB HEIGHTS SHALL BE A MINIMUM OF 8" HIGH AFTER THE INSULATION AND MEMBRANE ARE INSTALLED. IF THE EXISTING CURB HEIGHTS ARE INADEQUATE THEN THE CONTRACTOR WILL PROVIDE ADDITIONAL APPROVED PIPE COLLARS AND OR BLOCKING SECURED TO THE TOP OF THE CURBS TO MAINTAIN A MINIMUM OF 8" FLASHING HEIGHT.

8. STORE MATERIALS TO PREVENT DAMAGE. STACK INSULATION ON SUPPORTS TO ALLOW AIR TO PASS UNDER THE INSULATION AND TO PREVENT SURFACE WATER FROM HAVING CONTACT WITH THE INSULATION. COVER INSULATION WITH CANVAS TARPS, (DO NOT USE POLYETHELYNE FILM) VENTILATE TO PREVENT HEAT BUILDUP.

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