

**BUILDING SECTION** 

A. MANUFACTURERS: FIRESTONE BUILDING PRODUCTS CO., ELOTEX CORP., GAF BUILDING MATERIALS, SUPREME ROOFING AND WATERPROOFING OR APPROVED EQUAL. PROVIDE MATERIALS COMPATIBLE WITH ROOFING SPECIFICATIONS FOR SPECIFIC JOB FROM THE FOLLOWING:

B. MODIFIED BITUMEN SHEET ROOFING: TYPE: FULLY ADHERED.

PART 2 - PRODUCTS

2. MODIFIER: ATACTIC POLYPROPYLENE (APP). 3. MODIFIER: STYRENE-BUTADIENE-STYRENE (SBS).

C. AUXILIARY MATERIALS:

1. VAPOR RETARDER: BITUMINOUS VAPOR RETARDER. 2. INSULATION: GLASS-FIBER BOARD.

3. INSULATION: PERLITE BOARD. 4. INSULATION: POLYISOCYANURATE-FOAM BOARD.

5. INSULATION: COMPOSITE INSULATION BOARD. 6. INSULATION: PHENOLIC-FOAM BOARD.

7. INSULATION: CELLULAR-GLASS BOARD.

8. INSULATION: FIBERBOARD. 9. INSULATION: EXTRUDED POLYSTYRENE BOARD.

10. WALKWAY PROTECTION BOARDS: COMPATIBLE WITH SYSTEM. 11. SHEET METAL ACCESSORIES: SMACNA AND NRCA

RECOMMENDATIONS.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSPECT SUBSTRATE AND REPORT UNSATISFACTORY CONDITIONS IN WRITING. BEGINNING WORK MEANS ACCEPTANCE OF SUBSTRATE. COORDINATE INSTALLATION WITH OTHER TRADES, INCLUDING

CARPENTRY, FLASHING AND PENETRATING WORK. B. COMPLY WITH NRCA ROOFING AND WATERPROOFING MANUAL AND MANUFACTURER'S INSTALLATION

INSTRUCTIONS.

CLEAN, PRIME AND PREPARE SUBSTRATE.

INSTALL INSULATION WITH TIGHTLY BUTTED JOINTS AND NEATLY FITTED AROUND PENETRATIONS. BEGIN ROOF INSTALLATION ONLY IN PRESENCE OF MANUFACTURER'S REPRESENTATIVE.

INSTALL WALKWAY PROTECTION MEMBRANE AT LOCATIONS INDICATED AND WHERE REQUIRED TO PROVIDE ACCESS TO ROOF MOUNTED EQUIPMENT.

G. RESTORE OR REPLACE DAMAGED COMPONENTS. PROTECT WORK FROM DAMAGE.



DATE DESCRIPTION 7/6/2016 1ST CITY COMMENTS 11/30/16 FIELD CHANGES SHEET TITLE:

**SECTION** 

SHEET NUMBER:

16'-6" A.F.F. T.O. LEDGER AT FRONT 14'-6" A.F.F. T.O. LEDGER AT FRONT 9'-4" A.F.F. B.O. AWNING 0'-0" FIN. FLOOR

DIVISION 7: THERMAL AND MOISTURE PROTECTION

## SECTION 7A: BUILDING INSULATION

# **GENERAL PROVISIONS**

- SCOPE: FURNISH AND INSTALL FIBERGLASS INSULATION AND ROOF INSULATION TO PROVIDE A COMPLETELY INSULATED THERMAL SHELL WITH NO BREAKS OR PENETRATIONS.
- 2. NOTES: INSULATION VALUES SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AND/OR VALUES SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, WHICHEVER REQUIREMENT PROVIDES
- QUALITY CONTROL: THE OWNER SHALL BE NOTIFIED WHEN THE INSULATION IS IN PLACE, PRIOR TO THE INSTALLATION OF FINISH MATERIALS.

### MATERIALS

- FIBERGLASS INSULATION CONCEALED IN WALLS BY OWENS-CORNING OR JOHNS-MANVILLE. 5 1/2", R-19, FIBERGLASS ROLL INSULATION WITH KRAFT TYPE VAPOR BARRIER ON INSIDE FACE.
- FIBER GLASS INSULATION EXPOSED ABOVE CEILING BY OWENS-CORNING OR JOHNS-MANVILLE. 5 1/2", R-19 FIBERGLASS ROLL INSULATION WITH INTEGRAL FOIL REINFORCED KRAFT FACING ON INSIDE FACE WITH FLAME HAZARD RATING OF 25/50 OR LESS.
- ROOF INSULATION BOARD: CLOSED CELL POLYISOCYANURATE FOAM CORE WITH FACTORY-LAMINATED FOIL FACES. FOAM CORES WITH FLAME SPREAD OF 25 OR LESS AND COMPRESSIVE STRENGTH OF 20 PSI OR GREATER (ASTM D-1621) WITH A MINIMUM AGED R VALUE OF 16 BY ONE (1) OF THE FOLLOWING APPROVED MANUFACTURERS:
- A. AC FOAM SUPREME BY ATLAS INDUSTRIES
- B. THERMA ROOF PLUS BY R-MAX C. TEM-PRO SP BY THE TEMPLE EASTEX
- THE LISTED INSULATIONS ARE AVAILABLE THROUGH QUALIFIED ROOFING INSTALLERS. SEE NATIONAL ACCOUNTS INDEX.
- PERIMETER FOUNDATION INSULATION (AND 2" MASONRY WALL CAVITY INSULATION WHEN SHOWN) SHALL BE STYROFOAM SM BY DOW CHEMICAL CO. OR APPROVED EQUAL, 2" THICK. THERMAL CONDUCTIVITY SHALL BE .20 BTH/HR/SQ.FT./INCH THICKNESS AT 75 DEG F MEAN TEMPERATURE, R-10
- CONCRETE BLOCK CELL INSULATION FOR MASONRY WALLS SHALL BE SILICONE-TREATED PERLITE LOOSE-FILL INSULATION BY A MEMBER OF THE PERLITE INSTITUTE.

### PERFORMANCE

### 1. INSTALLATION:

- A. FIBERGLASS INSULATION: STAPLE AND/OR TAPE IN PLACE WITH VAPOR BARRIER SIDE INWARD. ALL JOINTS SHALL BE LAPPED TO PREVENT MOISTURE VAPOR MIGRATION. ALL PENETRATIONS AND PLUMBING AND ELECTRICAL BOXES SHALL BE INSULATED ON THE OUTWARD SIDE. ANY JOINTS NOT OVER WOOD FRAMING OR BLOCKING SHALL BE TAPED THOROUGHLY. STUFF AROUND DOOR FRAMES AND CLOSELY SPACED FRAMING MEMBERS.
- B. ROOF INSULATION: USE MECHANICAL FASTENERS WITH STEEL OR WOOD DECK. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OF SIX (6) PER BOARD MINIMUM. STAGGER PANEL END JOINTS AT ADJACENT PANEL MID POINT.
- PERIMETER FOUNDATION INSULATION: INSTALL FROM TOP OF SLAB DOWNWARD 24" WHEN FOUNDATION DEPTH PERMITS. OTHERWISE INSULATION SHALL EXTEND FROM TOP TO BOTTOM OF SLAB AND THEN HORIZONTALLY UNDER SLAB 24" TOWARD INTERIOR OF BUILDING.
- D. MASONRY CAVITY WALL INSULATION: INSTALL IN CAVITY WHEN SHOWN BETWEEN MASONRY WALL REINFORCING AS WALL IS BEING LAID.
- CONCRETE BLOCK CELL INSULATION: INSTALL WHEN SHOWN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

#### SECTION 7B: MEMBRANE ROOFING **GENERAL PROVISIONS**

1. SCOPE: FURNISH AND INSTALL MEMBRANE ROOFING SYSTEM THROUGH THE NATIONAL ACCOUNT PROGRAM DESCRIBED BELOW, INCLUDING ALL FLASHING, BACK FLASHING INSULATION AND RELATED MATERIALS REQUIRED FOR A COMPLETE, WATERPROOF INSTALLATION.

### NOTES:

A. PAYMENT FOR THIS SECTION WILL BE MADE AFTER RECEIPT OF MANUFACTURER'S FULL REPLACEMENT NDL (NO DOLLAR LIMIT) 10-YEAR WARRANTY FOR MATERIALS AND LABOR.

B. CAUTION: THE HVAC SYSTEM IS DESIGNED WITH THE THERMAL CHARACTERISTICS OF HI-TUFF MEMBRANE AND NO VARIATIONS ARE ALLOWED UNLESS GIVEN PRIOR WRITTEN APPROVAL BY POPEYES ARCHITECTURE AND ENGINEERING DEPARTMENT.

### 3. NATIONAL ACCOUNTS:

- (1) A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH JPS ELASTOMERICS CORPORATION FOR PURCHASING HI-TUFF ROOFING SYSTEM MATERIALS. REFER TO TITLE SHEET FOR INFORMATION.
- (2) INSTALLATION OF ROOF MEMBRANE SYSTEM ONLY BY MANUFACTURER APPROVED INSTALLERS. USING NON-APPROVED INSTALLERS MAY VOID WARRANTY PROGRAM WITH MANUFACTURER.
- (3) NOTIFY ROOFING CONTRACTOR A MINIMUM OF THREE (3) WEEKS IN ADVANCE OF NEEDED ROOF INSTALLATION DATE.
- (4) MATERIALS AND INSTALLATION FOR ROOFING AND FLASHING SHALL ONLY BE THROUGH THE
- NATIONAL ACCOUNT PROGRAM DESCRIBED.
- (5) MANUFACTURER'S REPRESENTATIVE SHALL INSPECT THE ROOF INSTALLATION, IF REQUIRED, PRIOR TO ISSUING 10-YEAR NDL MATERIALS AND LABOR WARRANTY.

### MATERIALS

# SINGLE PLY-ROOF

- 1. MEMBRANE ROOFING SYSTEM: HI-TUFF, MECHANICALLY FASTENED 45-MIL.
- A. ROOF MEMBRANE: 45-MIL, REINFORCED, HI-TUFF, WHITE, HYPALON ROOF MEMBRANE. B. MEMBRANE FLASHING: SAME AS ROOF MEMBRANE, EXCEPT WHERE "MOLDING" IS REQUIRED. MOLDED FLASHING: 55-MIL, NON-REINFORCED, WHITE, HI-TUFF HYPALON FLASHING MEMBRANE.
- METAL FLASHING AND ROOF SCUPPERS: HI-TUFF COATED METAL AS REQUIRED. E. MEMBRANE FASTENERS: FOR WOOD/STEEL DECK JPS ELASTOMERICS (OLYMPIC CR-10) FASTENERS WITH EXTRA FLUOROCARBON CORROSION-RESISTANT COATING. FASTENERS ARE NOT TO PROTRUDE
- F. INSULATION FASTENERS: FOR WOOD/STEEL DECK STANDARD JPS ELASTOMERICS (OLYMPIC CR-10) FASTENERS WITH CORROSION-RESISTANT COATING. MEMBRANE ADHESIVE - JPS ELASTOMERIC BONDING ADHESIVE -SOLVENT-BASED CONTACT ADHESIVE.
- H. PRIMER: SOLVENT-BASED SYNTHETIC RUBBER PRIMER USED TO PREPARE MEMBRANE FOR REPAIR. I. CAULKING: JPS HI-TUFF ALL-PURPOSE SEALANT OF EXTERIOR GRADE. J. TRAFFIC PAD: JPS WALKWAY PAD.
- 2. ROOF INSULATION BOARD: CLOSED CELL POLYISOCYANURATE FOAM CORE WITH FACTORY-LAMINATED FOIL FACES. FOAM CORE WITH FLAME SPREAD OF 25 OR LESS AND COMPRESSIVE STRENGTH OF 20 PSI OR GREATER (ASTM D-1621) WITH A MINIMUM R VALUE OF 16. AC FOAM SUPREME BY ATLAS OR EQUAL APPROVED BY JPS ELASTOMERICS, INC.
- 3. NAILERS: TREATED WOOD.

BELOW ROOF DECK GREATER THAN 1".

## MODIFIED BITUMEN SHEET ROOFING

# PART 1 - GENERAL

1.02 SUBMITTALS

PERFORMANCE

A. PROVIDE THE FOLLOWING: 1. WHITE GRANULAR MODIFIED BITUMEN ROOFING SYSTEM AND ROOFING SYSTEM AND ROOF INSULATION.

SURFACE PREPARATION: THE ENTIRE AREA TO BE ROOFED SHALL BE FREE OF DEBRIS AND GROSS

A. FLASHING MEMBRANE SHALL BE FULLY ADHERED, USING BONDING ADHESIVE, TO VERTICAL SUBSTRATES.

IN ADDITION, MEMBRANE FLASHINGS SHALL BE MECHANICALLY FASTENED AT 6" O.C. HOT AIR WELDING

SHALL BE USED AT THAT PORTION OF THE FLASHING THAT OVERLAPS 6" ONTO THE FIELD OF THE ROOF

2. ROOF FLASHING: FLASHINGS SHALL BE INSTALLED IN ACCORDANCE WITH JPS ELASTOMERICS'

3. ROOFING SHEET: MEMBRANE SHALL BE UNROLLED IN AN AREA TO BE COVERED. MECHANICAL

EQUIPMENT AND EQUIPMENT SUPPORTS NOT ATTACHED THROUGH ROOF MEMBRANE.

FASTENERS AND PLATES SHALL BE INSTALLED ALONG THE LEADING EDGE OF THE MEMBRANE AND AT THE

SEAM, THROUGH THE INSULATION AND INTO THE ROOF DECK. SPACING PATTERN AS DETERMINED BY JPS

ELASTOMERICS TO RESIST LOCAL WIND LOADS. ADJOINING ROLLS OF THE MEMBRANE SHALL OVERLAP THE

FASTENED EDGE OF THE INSTALLED MEMBRANE BY 4 1/2" MINIMUM, SEAM AREA SHALL BE CLEANED AND HOT

AIR WELDED WITH AN APPROVED HOT AIR WELDING MACHINE. INSTALL EXTRA LAYER OF MEMBRANE UNDER

4. 4' X 8' INSULATION BOARDS ARE TO BE FASTENED TO THE DECK WITH A MINIMUM OF SIX (6) FASTENERS

PER BOARD. ENSURE FASTENERS DO NOT PENETRATE CONDUIT OR OTHER ITEMS BENEATH THE ROOF DECK.

STAGGER PANEL END JOINTS AT ADJACENT PANEL MID POINTS. USE MECHANICAL FASTENERS WITH STEEL OR

5. TRAFFIC PAD: ADHERED TO ROOF WITH CONTACT ADHESIVE COMPATIBLE WITH ROOF MEMBRANE.

7. WARRANTY: FURNISH TO THE OWNER THE MANUFACTURER'S NDL (NO DOLLAR LIMIT) 10-YEAR

6. CLEANUP: THE ROOFING CONTRACTOR SHALL CLEAN THE CONSTRUCTION AREA OF HIS DEBRIS AND

MEMBRANE OR ONTO AN ADJACENT FLASHING.

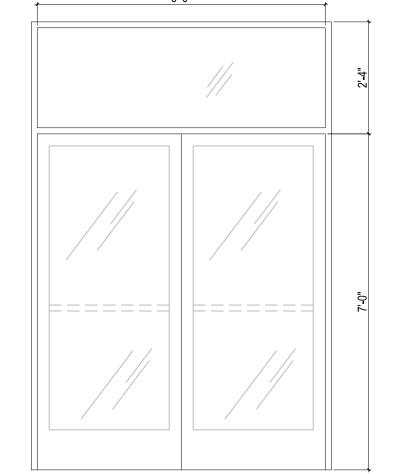
SHALL REMOVE HIS DEBRIS TO A JOB SITE TRASH CONTAINER.

WARRANTY FOR FULL REPLACEMENT OF MATERIALS AND LABOR.

### A. SUBMIT FOR APPROVAL SAMPLES, PRODUCT DATA, WARRANTY, TEST REPORTS, MAINTENANCE DATA.

1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S
- B. LISTING: UL CLASS [A] [B] [C] EXTERNAL FIRE EXPOSURE, AND CLASS [30] [60] [90] WIND-UPLIFT REQUIREMENTS.
- C. LISTING: FM CLASS I CONSTRUCTION.
- 1.04 WARRANTY
- A. ROOFING WARRANTY: MANUFACTURER'S 10 YEAR WARRANTY



DOOR ELEVATION

CONTRACTOR TO FIELD

VERIFY DIMENSIONS.

STOREFRONT DETAIL 17

**SPECIFICATIONS** 

**HAMPTON** 

CORPORATE:

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