1.01 SCOPE:
 A. Provide all of the labor, materials, equipment, and services to furnish and install the perimeter

US WORLD IN ASSUMMINE:

A. Single source responsibility for insulation products. Obtain each type of building insulation from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

A. Prior to installation, submit to the Architect for review the following:

1. Manufacturer's product data indicating density, insulating value, water absorption characteristics and recommended adhesive for the application.

2. Manufacturer's installation instructions.

1.04 DELIVERY AND STORAGE:

A. Deliver materials in original packages, containers, or bundles bearing manufacturer's labels indicating the brand name and descriptive data confirming compliance with requirements herein specified.

1.05 COORDINATING:
A. Coordinate shipment and delivery with job progress and other trades for timely installation to preclude delays and interferences and to minimize job storage time. Especially work closely with concrete installers to ensure proper installation.

2.01 PERIMETER INSULATION:

roduct/manutacturer; , 2" Dow Styrofoam. !. An approved equal.

2. An approximate the properties of the propert

2.02 ADHESIVE:

A. Type as recommended by the insulation manufacturer for the application involved.

PART 3 - EXECUTION

A. Verify that substrate and adjacent materials, and insulation boards, are dry and ready to receive insulation and adhesive. B. Verify that substrate is flat and free of irregularities and materials that will impede adhesive hand

C. Verify that insulation boards are unbroken and free of damage, including board skin.

3.02 INSTALLATION:

A. Recess the insulation enough to allow the slab to remain at its full thickness above the insulation. Install over vapor barrier.

07500 - SINGLE PLY ROOF MEMBRANE

PART 1 - GENERAL

1.1 DESCRIPTION

A. Mechanically Fastened Roofing System in conjunction with polyisocyanurate foam insulation board over the structural steel roof deck.

1.2 SCORE

A. Provide all labor, material, tools, equipment, and supervision necessary to complete the installation of the G60-mil thick white reinforced TPO (Thermoplastic Polyalefin) membrane Mechanically—fastened Roofing System including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications.

B. The roofing contractor shall be fully knowledgeable of all requirements of the contro-documents and shall make themselves aware of all job site conditions that will affect work.

C. The roofing contractor shall confirm all given information and advise the building owner, prior to bid, of any conflicts that will affect their cost proposal.

D. Any contractor who intends to submit a bid using a roofing system other than the a manufacturer must submit for pre-qualification in writing fourteen (14) days prior to the bid date. Any contractor who fails to submit all information as requested will be subject to rejection. Bids stating "as p plans and specs" will be unacceptable.

A. Prior to starting work, the roofing contractor must submit the following:

2. Shop drawings showing layout, details of construction and identification of material

3. Sample of the manufacturer's Membrane System Warranty.

4. Submit a letter of certification from the manufacturer which certifies is authorized to install the manufacturer's roofing system and received training from the manufacturer along with the dates

6. Certification from the membrane manufacturer indicating the membra reinforcing scrim (top ply membrane thickness) is noming 5-mil or

1.4 PRODUCT DELIVERY, STORAGE

ation instructions intact and continue without interruption

ns for proper material storage.

als (adhesives and sealants) between 60°F and 80°F in dry area erature, restore to 60°F

C. Any materials which are found to be damaged shall be removed and replaced at the applicator's expense.

A. Schedule and execute work to prevent leaks and excessive traffic on completed roof sections Care should be exercised to provide protection for the interior of the building and to ensure water does not flow beneath any completed sections of the membrane system.

B. Do not disrupt activities in occupied spaces

1.6 USE OF THE PREMISES

Before beginning work, the roofing contractor must secure approval from the building owner's representative for the following:

1. Areas permitted for personnel parking.

Areas permitted for the location of crones, hoists and chutes for loading and unloading materials to and from the roof.

3. Interior stairs or elevators may not be used for removing debris or delivering materials, e

1.7 EXISTING CONDITIONS

If discrepancies are discovered between the existing conditions and those noted on the drawings, immediately notify the owner's representative by phone and solicit the manufacturer's approval prior to commencing with the work. Necessarry steps shall be taken to make the building watertight until the discrepancies are resolved.

The roofing contractor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. Safety shall be the responsibility of the roofing contractor. All related personnel shall be instructed daily to be mindful of the full time requirement to maintain a safe environment for the facility's occupants including staff, visitors, customers and the occi of the general public on or near the site.

A. Applicators installing new roof, flashing and related work shall be factory trained and approved by the manufacturer they are representing.

B. All work shall be of highest quality and in strict accordance with the manufacturer's published

C. There shall be a supervisor on the job site at all times while work is in progress

1.10QUALITY ASSURANCE

A. The TPO Membrane Roofing System must achieve a UL Class C.

B. (choose the appropriate paragraph and delete remainder)

The specified roofing assembly must have been successfully tested by a qualified testing agency to resist the design uplift pressures calculated according to

ANSI/SPRI WD-1 "Wind Design Standard Practice for Roofing Assemblies" American Society of Civil Engineers (ASCE 7) International Building Code (IBC)

C. The membrane must be manufactured by the material supplier. Manufactur brane made by others are not acc

the manufacturer's current specifications and details.

Provide adequate number of experience are skilled in the application technique thoroughly trained and experienced sur

ired before the warranty will be issued. Notify the

turer's specification for General Job Site Considerations.

Safety Data Sheets (MSDS) must be on location at all times during the transportation

When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain sumps. All field splices should be shingled to prevent bucking of wate

When loading materials onto the roof, the Authorized Roofing Applicator must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building structure.

Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.

Provide protection, such as 3/4 inch thick plywood, for all roof areas exposed to traffic during construction. Plywood must be smooth and free of fasteners and splinters.

The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.

. New roofing shall be complete and weathertight at the end of the work day.

Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with the roofing membrane.

F. Provide manufacturer's 20 year Total System Warranty covering both iabor and material with no dollar limitation. The maximum wind speed coverage shall be peak gusts of 90 mph measured at 10 meters above ground level. Certification is required with bid submittal indicating the manufacturer has reviewed and agreed to such wind coverage.

f. Evidence of the manufacturer's warranty reserve shall be included as part of the project

PART 2 PRODUCTS

2.1 GENERAL

A. All components of the specified roofing system shall be products of Carlisle SynTec or accepted by Carlisle SynTec as compatible.

B. All products (including insulation, fasteners, fastening plates, prefabricated accessories and edgings) must be manufactured and/or supplied by the roofing system manufacturer and covered by the warranty.

A. Furnish Sure-Weld .060-mil thick white reinforced TPO (Thermoplastic Polyolefin) membrane as

B. Alternates shall be considered and must be approved in writing by Owner prior to purchase and

2.3 INSULATION/UNDERLAYMENT

A. See Section 07220 Roof Deck Insulation

3. When applicable, insulation shall be installed in multiple layers. The firs insulation shall be mechanically fastened to the substrate in accordant manufacturer's published specifications.

A. Celiular foam sponge tubing 50% lorger than join with saf

urer and specifically for

um Coping and Fascio

ing s shall be tested and meet ANSI/SPRI ES-1 standards and comply

and .098*thick extruded aluminum bar pre-punched 6"on center; support Lap Seglant and provide increased stability for membrane

ure—Weld TPO Walkway Rolls installed per manufacturer's requirements or concrete pay ase laid over an approved sijp sheet (payers not recommended for slopes greater tha

"Skypath" roof walkway pad as manufactured by Mats, Inc. open grid self-draining, non-porous walkway matting system, 36" wide x 5/8" thickness, furnished in roll format.

2.9 ROOF HATCH AND SAFETY POST

A. Roof Hatch: Blico Type S or approved equal

Furnish and install as located and specified within drawings. Provide a 36"tong x 30"wide single leaf, pre-assembled, and equipped with interior padlock hasps. Length shall denote the hinge side. Owner shall provide padlock.

Provide Model LU-4 aluminum, mill finished.

Install on fixed ladder below root hatch

wast have a telescoping section that locks abtoind acony when tany extend 2.10 SMOKE AND HEAT VENTS

PART 3 EXECUTION

B. Position sheets to accommodate contours of the roof deck and shingle spiices to avoid bucking water.

3.2 INSULATION PLACEMENT AND ATTACHMENT

A. Install insulation or membrane underlayment over the substrate with boards butted tightly

together with no joints or gaps greater than 1/4 inch. Stagger joints both horizontally and

B. Secure insulation to the substrate with the required Carlisie fasteners and plates in accordance

3.3 MEMBRANE PLACEMENT AND ATTACHMENT

A. Unroll and position membrane. Provide and secure both perimeter and field membrane sheets in

B. Secure the membrane with the required fasteners and plates spaced a maximum of 12 is on center depending or project conditions (centered over the pre-printed marks approxim 1-1/2 inches from the edge of the membrane sheet).

C. Install adjoining membrane sheets in the same manner in accordance with

3.4 MEMBRANE HOT AIR WELDING PROCEDURES

A. Hot air weld the Sure-Weld membrane using an Automatic Ho Hand Welder in accordance with the manufac

mbrane (where the scrim

joints and other parts of the roof must be performed Sure-Weld non-reinforced membrane can be used for lealant Pockets, scuppers, as well as inside and outside corners ated accessories is not feasible.

nufacturer's typical flashing procedures for all wall, curb, and penetration flashing ting metal edging/coping and roof drain applications.

3.6 WALKWAYS

A. Install walkways at all traffic concentration points (such as roof hatches, access doors, roofter s, etc.) and all locations as identified on the specifier's drawing.

B. Hot air weld walkway material to the membrane sheet in accordance with the manufacturer's

3.7 DAILY SEA

B. Complete an acceptable membrane seal in accordance with the manufacturer's requirements,

A. Perform daily clean—up to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally acceptable

07600 - METAL FLASHING

PART 1 -- GENERAL

and sheet meta

.01 SCOPE: A. Provide all of the labor, materials, equipment, and services to furnish and install the flashing

A. In addition to complying with all pertinent codes and standards, comply with all pertinent

B. All sheet metal items are not necessarily individually described. The most important parts and those requiring detailed description are usually mentioned. Other work as indicated or necessary shall be provided unless specifically excluded from the work of this Section.

"Architectural Sheet Metal Manual", 5th edition. Sheet Metal and Air Conditioning

Install sheet metal flashing and trim to withstand wind loads, structural movement,

C. Perform work in accordance with SMACNA requirements:

Hanger design: Figure 1-35 (see Drawings for profile and size).

2. Conductor heads: Figures 1-25C and 1-26.

3. Scupper: Figure 1-26. D. Installers

Profile: Figure 1-32 (see Drawings for profile and size).

thermally induced movement, and exposure to weather without failing

2. Work associated with flashing including (but not limited to) membrone roofing and roof deck insulation shall be performed by and be the responsibility of a single installer. Coordinate with Section 07531.

A. Prior to installation, submit to the Architect for review the following:

 Complete and fully descriptive manufacturer's literature for all factory fobricated items naming all materials, dimensions, finishes and accompanying accessory items. omplete shop drawings and erection drawings for each product named which shall include material schedule, details, profiles, gauges, dimensions, layout, anchorage and joint

Physical samples - full range of finishes and coloration.

.04 PROJECT CONDITIONS:

Coord-not work with interfacing and adjoining work for proper sequencing of each instaliation Ensure best possible weather resistance, durability of work, and protection of materials and finishes.

2.01 ALLIMINUM SHEET:

Factory painted aluminum sheet:

Counterflashing: 0.0320".

Other Items: ASTM B209, 3003-H14, with a minimum thickness of 0.040", unless

ARCHITECT

2265 ROSWELL ROAD SUITE 100 MARIETTA, GEORGIA 30062 770-509-4894 TELEPHONE

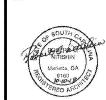


FLORIDA 33410

430 TBC WAY

PALM BEACH GARDENS





DRAWN BY: CHECKED BY:	
ISSUE:	DATE:
ISSUED FOR PERMIT	10/10/201
DEL FOLONI	DATE

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SPECIFICATIONS