Product

ProtecF COMPOSITE SYSTEM (Flat and Tapered)

Specification

Steel Deck-Fully Adhered

Note: Following are suggested specification paragraphs to be used when specifying ModulR TS products as part of a conventional roofing membrane assembly. The information is organized and presented to assist in the writing the project specification. For further consultation contact ModulR TS or refer to the Canadian Roofing Contractors Association Specification Manual, ULC, or Factory Mutual.

PART 1 GENERAL

.1 REFERANCE STANDARDS

.1 ASTM C303 Standard for Dimensions and Density of Preformed Block Type Thermal Insulations
.2 CAN/ULC-S704-01 Thermal Insulation, Polyurethane and Polyisocyanurate Boards
.3 N.R.C. Wind Roof Calculator (http://irc.nrc-cnrc.gc.ca/bes/prsi/calc_new/rciintro_e.html)

PART 2 WARRANTY

1. The membrane product manufacturer will issue a written and signed document in the owner's name, certifying that the roofing membranes are free of manufacturing defects for a period of ten (10) years, starting from the date of acceptance. This warranty will cover the removal and replacement of defective roof membrane products, including labour.

PART 3 PRODUCTS

.1 Steel Deck

.2 ProtecRSS Thermal Barrier Board (vapour barrier support)

.1 Layer of 25mm (1") rigid mineral wool fiber board of a minimum actual density (ASTM C612-09) 11lbs. cu / ft (176 kg/M³), nominal density not acceptable, manufactured from basalt rock and steel slag to ASTM C726. Top and bottom sides saturated with bitumen and light coating of sand.
.2 Board Size 4' x 4' x 1" (1220mm x1220mm x 25mm) butt edge.
.3 Acceptable Product: **"ProtecRSS THERMAL BARRIER BOARD COATED 2 SIDES"**, manufactured by ModulR TS.

.3 Primer for Self Adhesive Applied Membranes

.1 Emulsion based primer for Self Adhesive Applied Membranes to provide enhanced adhesion.

.4 Adhesives

.1 Adhesives to provide wind up lift resistance as prescribed by N.B.C or FM.

.5 Vapour Barrier (Options)

.1 Hot Mop 2 ply 15 lb. felt.
.2 Torched Mod. Bit. membrane.
.3 Self Adhesive membrane.

.6 Cold Adhesive

.1 Ensure compatibility of Cold Adhesive with **ProtecRSS Overlay / Protection Board** and insulation.

.7 Insulation

.1 ProtecF COMPOSITE SYSTEM

.1 Layer of 12.7mm (1/2") high density coated wood fiberboard, factory laminated to ** mm (** in.) polyisocyanurate insulation, factory laminated to ** mm (** in.) polyisocyanurate insulation providing 25mm (1") shiplap on all sides. Overall thickness of** mm (** in.) combined thermal resistance of ** RSI (**R-Value).

.2 Board Size 4'x4' (1220mm x 1220mm) shiplap.

.3 Acceptable Product: **"ProtecF COMPOSITE SYSTEM",** manufactured by ModulR TS.

.2 TAPERED ProtecRSS COMPOSITE SYSTEM

.1 Layer of 12.7mm (1/2") high density coated wood fiberboard, factory laminated to ** mm (** in.) polyisocyanurate insulation, factory laminated to ** mm (** in.) polyisocyanurate insulation providing 25mm (1") shiplap on all sides. Thickness at the drain of **mm (**in.) with a tapered slope of (1%, 2% or greater upon request). providing an (minimum or average) thermal resistance of RSI (R-Value).

.2 Board Size 4'x4' (1220mm x 1220mm) shiplap.

.3 Acceptable Product: **"TAPERED ProtecF COMPOSITE SYSTEM"**, manufactured by ModulR TS.

.9 Insulation Adhesive

.1 Asphalt

.2 Cold adhesive

.10 Cants

.1 Rigid mineral wool fibre cants manufactured from basalt rock and steel slag to ASTM C726. Top side saturated with bitumen and light coating of sand.

.2 Acceptable Product: **"CANTRSS"** manufactured by ModulR TS.

.11 Roof Membrane (Options)

.1 Modified Bitumen Membrane

.1 Hot Applied

.2 Self Adhered

.3 Cold Applied

.2 B.U.R.

.1 Hot Applied

.2 Cold Applied

PART 4 EXECUTION

.1 Steel Deck

.2 ProtecRSS Thermal Barrier Board (vapour barrier support)

.1 Apply adhesive as prescribed by adhesive manufacturer.

.2 Install ProtecRSS Thermal Barrier Board tightly and stagger joints.

.3 Primer for Self Adhesive Applied Membranes

.1 Install over roof deck substrates prior to the installation of the Self Adhesive Vapour Barrier Membrane.

.2 Apply primer as recommended by the manufacturer.

.3 Primer must be compatible to the Self Adhesive Vapour Barrier Membrane.

.4 Vapour Barrier (options)

.1 Mop 2 ply 15 lb. Felt as per CRCA SO-VR-1

.2 Torch Applied as per manufacturer instructions.

.1 Apply directly onto clean substrate.

.2 Overlap side laps and end laps as per manufacturer instructions.

.3 Turn-up Vapour Barrier sheet on vertical surfaces.

.4 All laps and vertical penetrations to be flashed as per manufacturer's details.

.3 Self Adhere as per manufacturer's instructions.

.1 Apply directly onto clean primed substrate by removing silicone cover sheet.

.2 Overlap side laps and end laps as per manufacturer's instructions.

.3 Turn-up Vapour Barrier sheet on vertical surfaces.

.4 All laps and vertical penetrations to be flashed as per manufacturer's details.

.5 Insulation-Composite / Tapered Composite

.1 Mop hot asphalt at a rate of 25lbs.per^2 (1.2kgs/m^2) or apply cold adhesive as per manufacturer's suggested coverage.

.2 Press **"ProtecF COMPOSITE SYSTEM / Tapered ProtecF COMPOSITE SYSTEM"** into place with insulation joints tightly together.

.3 Do not install more insulation that can be completely roofed in one day.

.4 Install tapered insulation as per approve shop drawings.

.5 Temporarily seal the roof from water penetration with a cut-off seal at the end of each work day.

.6 Remove cut-off when commencing work**.**

.6 Cants

.1 Install cants at vertical walls of the perimeter parapet and roof top curbs with a full coverage of compatible adhesive.

.7 Roof Membrane

.1 Modified Bitumen Membrane.

.1 Install as per manufacturer's instructions

.2 B.U.R.

.1 Install as per CRCA Technical Manual or manufacturer's instructions.