PLAINTIFF'S EXHIBIT
BIR-185

3906A 12 61 24M R O 1331

MEMORANDUM

~~cc: A.R.Weed - BB~~
S.H.Sallie -BBH

In Reply to _____ *Date* 10-31-62 *From* ~~E.L.Lincoln~~ *To* ~~R.F.Jenkins - MB~~

Subject ~~COLD APPLICATION BUILT-UP ROOF SPECIFICATIONS~~

Attached are two 10-yr. Cold Application Built-Up Roof Specifications which were requested by you at the last Managers Meeting.

These specifications correspond with Flintkote and Carey Cold Process Specifications which may be bonded for 10 years.

The Bird Cold Application Felt is our 43-lb. Bonded Base Sheet; the Bird Cold Cement is our standard Cold Cement and the Bird Fibrated Asphalt Emulsion at Shreveport will be the Talcote Emulsified Asbestos Roof Coating as supplied to us by American Petrofina at Mt. Pleasant, Texas.

We can also supply 15-yr. Cold Application Specifications which will require Asbestos Felt and the Emulsion surface.

Do you think there will be sufficient call for this type roof to warrant printing a brochure showing 10-yr. and 15-yr. Specifications with application sketches?

ELL:M

BIRD COLD APPLICATION BUILT-UP ROOF

SMOOTH SURFACE

OVER POURED CONCRETE OR PRECAST CONCRETE

SLOPE 1/2" to 2" in 1'0"

APPROXIMATE AMOUNT OF MATERIAL PER 100 SQ. FT. OF ROOF AREA

Felt - 2 layers Bird Cold Application Felt	86 lbs.
Nails & Discs - 1" barbed nails for wood or 5d cut nails for nailable concrete through flat tinned discs	
Adhesive - Bird Cold Cement	4 gals.
Surfacing - Bird Fibrated Asphalt Emulsion	3 gals.

INSTALLATION

1. Cut rolls of Bird Cold Application Felt into 18' lengths and stack ~~Felt~~ face down on a flat surface for three to four hours before using.

2. At the lower edge of the roof deck, parallel with the eaves, coat an 18" wide area with Bird Cold Cement at the rate of 2 gallons per square. Embed in this cement an 18" wide strip of Bird Cold Application Felt.

3. Coat the 18" strip and an area 18" above this strip with Bird Cold Cement at the rate of 2 gallons per square.

4. Embed in this cement a 36" wide sheet of Bird Cold Application Felt holding the lower edge even with the lower edge of the previously applied strip.

5. Coat the upper 19" width of this sheet and an area 17" above this sheet with Bird Cold Cement at the rate of 2 gallons per square and embed the next sheet in this cement so that it laps the previous sheet 19". All end laps shall be a full 6". All felts shall be laid without wrinkles or buckles and shall be "broomed in" to assure a good bond with the cement. Continue the application in this manner

6. When felts have been applied, coat the entire roof surface with Bird Fibrated Asphalt Emulsion at the rate of 3 gallons per square.

7. At all intersections where flashings are required, cant strips shall be installed and flashings constructed of three plies of Bird Cold Application Felt cemented together and top-trowelled with Bird Special Flashing Cement.

NOTE

On nailable concrete decks, each sheet shall be nailed 3" from the upper edge with 5d cut nails driven through flat tinned discs spaced 12" on centers. Where deck is not nailable, wood nailing strips shall be provided, spaced 24" center to center and laid parallel to the slope of the roof. Each sheet shall be nailed with 2 barbed nails at each nailing strip. Nails shall be driven through flat tinned discs 3" and 7" from the upper edge of the sheet.

ELL:fr

BIRD COLD APPLICATION BUILT-UP ROOF

SMOOTH SURFACE

OVER NAILABLE DECKS — SLOPE 1/2" to 5" in 1'0"

APPROXIMATE AMOUNT OF MATERIAL PER 100 SQ. FT. OF ROOF AREA

Felt - 2 layers Bird Cold Application Felt	86 lbs.
Nails & Discs - 1" barbed nails for wood or 5d cut nails for gypsum or insulating concrete through flat tinned discs	
Adhesive - Bird Cold Cement	2 gals.
Surfacing - Bird Fibrated Asphalt Emulsion	3 gals.

INSTALLATION

1. Cut rolls of Bird Cold Application Felt into 18' lengths and stack face down on a flat surface for three to four hours before using.

2. At the lower edge of the roof deck install, parallel with the eaves, an 18" wide strip of Bird Cold Application Felt. Nail this strip securely with 1" nails driven through flat tinned discs in two staggered rows 3" and 15" from the lower edge, spacing the nails not more than 12" on centers.

3. Completely cover the 18" strip with Bird Cold Cement at the rate of 2 gallons per square.

4. Embed in this cement a 36" wide sheet of Bird Cold Application Felt holding the lower edge even with the lower edge of the previously applied strip. Nail this 36" sheet securely with 1" nails driven through ~~the~~ flat tinned discs in two staggered rows 3" and 15" from the upper edge of the sheet spacing the nails not more than 12" on centers.

5. Coat the upper 19" width of this sheet with Bird Cold Cement at the rate of 2 gallons per square and embed the next sheet in this cement so that it laps the previous sheet 19". Nail as stated above. All end laps shall be a full 6". All felts shall be laid without wrinkles or buckles and shall be "broomed in" to assure a good bond with the cement.

6. When felts have been applied, coat the entire roof surface with Bird Fibrated Asphalt Emulsion at the rate of 3 gallons per square.

7. At all intersections where flashings are required, cant strips shall be installed and flashings constructed of three plies of Bird Cold Application Felt cemented together and top-trowelled with Bird Special Flashing Cement.

ELL:ef
10/29/62