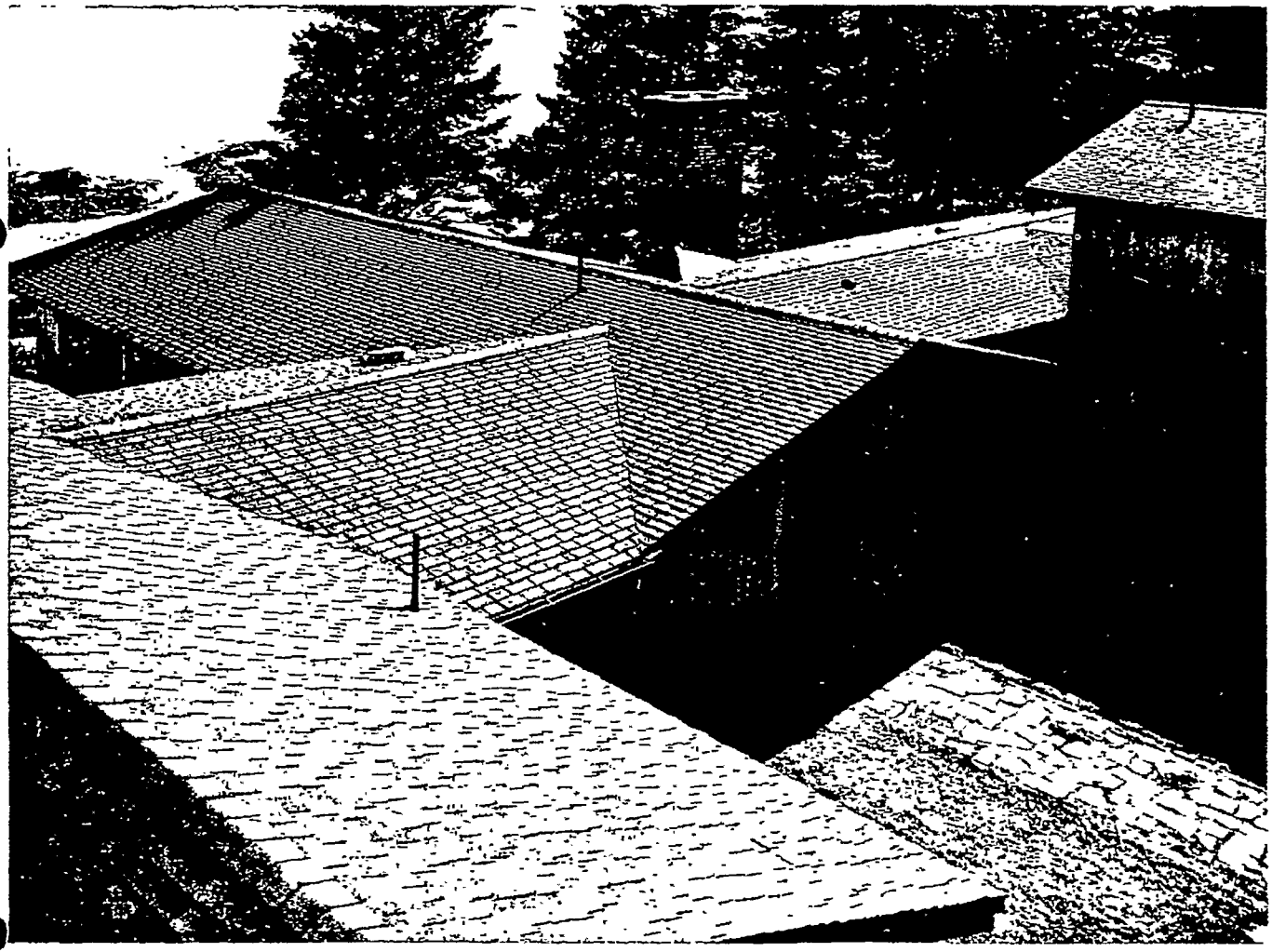
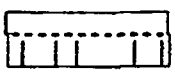
PLAINTIFF'S EXHIBIT

BIR-1166



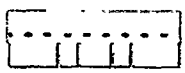
BIRD ASPHALT SHINGLES

Metric Equivalent Shown (Approx.)

GROUP PRODUCTS **D-33**	MARTINEZ	PORTLAND	WILMINGTON
ARCHITECT® 70 Shingle  12¼" x 36³⁄₁₆" (.311m x .919m)	CYPRESSWOOD EBONYWOOD OAKWOOD 80 Units Per Sq. Approx. 345 Lbs. (156.5kg.) Per Sq. 5 Bundles Per Sq. 8 Sq. Per Pallet Class "C" & "Wind Resistant" U/L	CYPRESSWOOD EBONYWOOD OAKWOOD 80 Units Per Sq. Approx. 345 Lbs. (156.5kg.) Per Sq 5 Bundles Per Sq 8 Sq. Per Pallet Class "C" & "Wind Resistant" U/L	CYPRESSWOOD EBONYWOOD OAKWOOD 80 Units Per Sq Approx. 345 Lbs. (156.5kg.) Per Sq. 5 Bundles Per Sq. 8 Sq. Per Pallet Class "C" & "Wind Resistant" U/L
HIP and RIDGE ARCHITECT® 70 Shingle 	CYPRESSWOOD EBONYWOOD OAKWOOD 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 72 Lbs. (32.7 kg.) Per Bdl. 96 Pcs. Per Bdl. 40 Bdls. Per Pallet Covers 40 Lin. Ft. (12.2m) (5" Exposure) (127m)	CYPRESSWOOD EBONYWOOD OAKWOOD 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each Approx. 72 Lbs. (32.7 kg.) Per Bdl. 96 Pcs. Per Bdl 36 Bdls. Per Pallet Covers 40 Lin. Ft. (12.2m) (5" Exposure) (127m)	CYPRESSWOOD EBONYWOOD OAKWOOD 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each Approx. 72 Lbs. (32.7 kg.) Per Bdl. 96 Pcs. Per Bdl. 40 Bdls. Per Pallet Covers 40 Lin Ft. (12.2m) (5" Exposure) (127m)
GROUP PRODUCTS B-1	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
GLASS BILT FIRESCREEN™ Shingle  12" x 36" (.305m x .914m)	DESERT BROWN (Shaketone) HIGHLAND BROWN MEADOW (Coronado) GREEN MOIRE BLACK WHITE 80 Units Per Sq. Approx 215 Lbs. (97.5 kg.) Per Sq. 3 Bdls. Per Sq. 16 Sq. Per Pallet Class "A" & "Wind Resistant" U/L	DESERT BROWN (Shaketone) HIGHLAND BROWN MEADOW (Coronado) GREEN MOIRE BLACK WHITE 80 Units Per Sq. Approx 215 Lbs (97.5 kg.) Per Sq. 3 Bdls Per Sq. 16 Sq. Per Pallet Class "A" & "Wind Resistant" U/L	DESERT BROWN (Shaketone) HIGHLAND BROWN MEADOW (Coronado) GREEN MOIRE BLACK WHITE 80 Units Per Sq. Approx 215 Lbs. (97.5 kg.) Per Sq. 3 Bdls. Per Sq. 16 Sq. Per Pallet Class "A" & "Wind Resistant" U/L
GROUP PRODUCTS A-01	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
ARCHITECT MARK 25® Shingle 12" x 36³⁄₁₆" (.385m x .919m) 	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK SNOWFLAKE WHITE 80 Units Per Sq. Approx. 290 Lbs. (131.5kg.) Per Sq. 4 Bdls. Per Sq. 11 Sq. Per Pallet Class "C" & "Wind Resistant" U/L	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK SNOWFLAKE WHITE 80 Units Per Sq. Approx. 290 Lbs. (131.5kg.) Per Sq 4 Bdls. Per Sq. 11 Sq Per Pallet Class "C" & "Wind Resistant" U/L	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK SNOWFLAKE WHITE 80 Units Per Sq Approx. 290 Lbs. (131.5kg.) Per Sq. 4 Bdls. Per Sq. 11 Sq. Per Pallet Class "C" & "Wind Resistant" U/L

GROUP PRODUCTS A-01	MARTINEZ	PORTLAND	WILMINGTON
HIP and RIDGE MARK 25® Shingle 	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 72 Lbs. (32.7 kg.) Per Bdl. 80 Pcs. Per Bdl. 48 Bdls. Per Pallet Covers 33⅓ Lin. Ft. (10.2m) (5" Exposure) (.127m)	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 72 Lbs. (32.7 kg.) Per Bdl. 80 Pcs. Per Bdl. 48 Bdls. Per Pallet Covers 33⅓ Lin. Ft. (10.2m) (5" Exposure) (.127m)	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 72 Lbs. (32.7 kg.) Per Bdl. 80 Pcs. Per Bdl. 48 Bdls. Per Pallet Covers 33⅓ Lin. Ft. (10.2m) (5" Exposure) (.127m)

GROUP PRODUCTS A-01	MARTINEZ	PORTLAND	WILMINGTON
ROOFSCAPE TABS  8" x 12" (.203m x .305m) 4" x 12" (.102m x .305m) 6" x 12" (.152m x .305m)	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) Two 8" (.203m) Two 6" (.152m) Two 4" (.102m) Per Strip Approx. 72 Lbs. (32.7 kg.) Per Bdl. 1⅓ Bdls. Per Sq 48 Bdls. Per Pallet	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) Two 8" (.203m) Two 6" (.152m) Two 4" (.102m) Per Strip Approx. 72 Lbs. (32.7 kg.) Per Bdl. 1⅓ Bdls. Per Sq. 48 Bdls. Per Pallet	CANYON DESERT TONE NEW BAYBERRY SABLE BLACK WEATHERED OAK WHITE --- 12" x 36" Scored Strips (.305m x .914m) Two 8" (.203m) Two 6" (.152m) Two 4" (.102m) Per Strip Approx. 72 Lbs. (32.7 kg.) Per Bdl. 1⅓ Bdls. Per Sq 48 Bdls. Per Pallet

GROUP PRODUCTS A-01	MARTINEZ	PORTLAND	WILMINGTON
JET II Shingle  12" x 36" (.305m x .914m)	MAHOGANY MEADOW MIST MOIRE BLACK SHADOW BROWN SHADOW FROST SHAKETONE --- 80 Units Per Sq. Approx. 235 Lbs. (106.6 kg.) Per Sq. 3 Bdls. Per Sq 14⅔ Sq. Per Pallet Class "C" & "Wind Resistant" U/L	MAHOGANY MEADOW MIST MOIRE BLACK SHADOW FROST SHAKETONE SNOW WHITE --- 80 Units Per Sq. Approx. 235 Lbs. (106.6 kg.) Per Sq. 3 Bdls. Per Sq. 12 Sq. Per Pallet Class "C" & "Wind Resistant" U/L	MAHOGANY MEADOW MIST SHADOW FROST SHADOW TAN SHAKETONE SNOW WHITE --- 80 Units Per Sq. Approx. 235 Lbs. (106.6 kg.) Per Sq. 3 Bdls. Per Sq. 12 Sq. Per Pallet Class "C" & "Wind Resistant" U/L

BIRD 021963

BIRD ASPHALT SHINGLES cont.

Metric Equivalent Shown (Approx.)

GROUP PRODUCTS A-01	MARTINEZ	PORTLAND	WILMINGTON
WIND SEAL® Shingle  12" x 36" (305m x 914m)	ANTIQUE SILVER CORAL SUNSET CORONADO GREEN FOREST GREEN HIGHLAND BROWN MOIRE BLACK OLIVEWOOD SEQUOIA BROWN SHAKETONE WHITE 80 Units Per Sq. Approx 235 Lbs. (106.6 kg.) Per Sq 3 Bdls. Per Sq 14⅔ Sq. Per Pallet Class "C" & "Wind Resistant" U/L	ANTIQUE SILVER CORAL SUNSET CORONADO GREEN FOREST GREEN HIGHLAND BROWN MOIRE BLACK OLIVEWOOD SADDLE TAN SEQUOIA BROWN SHAKETONE WHITE 80 Units Per Sq. Approx. 235 Lbs. (106 6 kg.) Per Sq. 3 Bdls Per Sq. 12 Sq. Per Pallet Class "C" & "Wind Resistant" U/L	ANTIQUE SILVER CORONADO GREEN FOREST GREEN HIGHLAND BROWN MOIRE BLACK OLIVEWOOD RED SADDLE TAN SEQUOIA BROWN SHAKETONE WHITE 80 Units Per Sq. Approx. 235 Lbs. (106.6 kg.) Per Sq. 3 Bdls. Per Sq. 12 Sq Per Pallet Class "C" & "Wind Resistant" U/L
GROUP PRODUCTS A-07	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
UNIVERSAL HIP and RIDGE Shingle 	ALL STANDARD COLORS 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 70 Lbs. (31.8 kg) Per Bdl. 96 Pcs. Per Bdl. Covers 40 Lin. Ft. (12.2m) (5" Exposure) (.127m) 48 Bdls. Per Pallet	ALL STANDARD COLORS 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 70 Lbs. (31 8 kg.) Per Bdl. 96 Pcs. Per Bdl. Covers 40 Lin. Ft. (5" Exposure) (12.2m) 36 Bdls. Per Pallet	ALL STANDARD COLORS 12" x 36" Scored Strips (.305m x .914m) 4 Units 9" x 12" Each (.229m x .305m) Approx. 70 Lbs. (31.8 kg.) Per Bdl. 96 Pcs. Per Bdl. Covers 40 Lin. Ft (5" Exposure) (12.2m) 40 Bdls. Per Pallet

NAIL REQUIREMENTS FOR SHINGLES:

Shingles	No. of Nails per square	Approx. Pounds of 11-12 gauge Galvanized nails required per square		
		1¼" Nail	1½" Nail	1¾" Nail
Jet II * 4 Nails per strip	320	1½	1¾	2⅛
Wind Seal * 4 Nails per strip	320	1½	1¾	2⅛
Architect 70 * 4 Nails per strip	320	1½	1¾	2⅛
Custom Roofscape * 4 Nails per strip	320	1½	1¾	2⅛
Mark 25 * 4 Nails per strip	320	1½	1¾	2⅛
Glass Bilt Firescreen * 4 Nails per strip	320	1½	1¾	2⅛
* Check area building codes				

Metric Equivalent Shown (Approx.)

BIRD MINERAL SURFACED ROLL ROOFING

GROUP PRODUCTS **A-10**	MARTINEZ	PORTLAND	WILMINGTON
9" (229m) **MINERAL SURFACED STRIPS**	DARK NEUTRAL SLATE 9" x 36' Roll (229m x 10.97m) Approx. 22 Lbs. Per Unit	DARK NEUTRAL SLATE 9" x 36' Roll (.229m x 10.97m) Approx. 22 Lbs. (10 kg.) Per Unit	DARK NEUTRAL SLATE 9" x 36' Roll (.229m x 10.97m) Approx. 22 Lbs. (10 kg.) Per Unit
18" (457m) **MINERAL SURFACED STRIPS**	NOT AVAILABLE	ALL STANDARD COLORS 18" x 36' Roll (457m x 10.97m) Approx. 44 Lbs. (20 kg.) Per Unit	NOT AVAILABLE
36" (914m) **MINERAL SURFACED STRIPS (Roll Roofing) (Valley Roll)** No Selvage	ALL STANDARD COLORS 36" x 36' Roll (914m x 10.97m) Approx. 90 Lbs. (40.8 kg.) Per Unit	NOT AVAILABLE	ALL STANDARD COLORS 36" x 36' Roll (914m x 10.97m) Approx. 90 Lbs. (40.8 kg.) Per Unit
36" (914m) **MINERAL SURFACED ROLL ROOFING** 9/10 Sq. Roll 2" Selvage (51mm) No Fixtures	NOT AVAILABLE	NOT AVAILABLE	WHITE Approx. 78 Lbs. (35.4 kg.) Per Roll 96 Sq. Ft. (8.92m²) Per Roll 32 Lin. Ft. (9.75m) Per Roll 25 Rolls Per Pallet
36" (914m) **MINERAL SURFACED ROLL ROOFING** 1 Sq. Roll 2" Selvage (51mm) No Fixtures	BLACK FOREST GREEN RED WHITE Approx. 90 Lbs. (40.8 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 36 Lin. Ft. (10.97m) Per Roll 25 Rolls Per Pallet Class "C" U/L	BLACK FOREST GREEN RED WHITE Approx. 90 Lbs. (40.8 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 36 Lin. Ft. (10.97m) Per Roll 25 Rolls Per Pallet Class "C" U/L	BLACK FOREST GREEN RED WHITE Approx. 90 Lbs. (40.8 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 36 Lin. Ft. (10.97m) Per Roll 25 Rolls Per Pallet
ART EDGE™	CORONADO GREEN WHITE Approx. 105 Lbs. (47.6 kg.) Per Roll 129 Sq. Ft. (12m²) Per Roll 43 Lin. Ft. (13.1m) Per Roll 20 Rolls Per Pallet	NOT AVAILABLE	CORONADO GREEN SADDLE TAN SHAKETONE WHITE Approx. 105 Lbs. (47.6 kg.) Per Roll 129 Sq. Ft. (12m²) Per Roll 43 Lin. Ft. (13.1m) Per Roll 20 Rolls Per Pallet

ROLL ROOFING

Metric Equivalent Shown (Approx.)

GROUP PRODUCTS A-13	MARTINEZ	PORTLAND	WILMINGTON
36" (.914m) **PAROID**®	No Fixtures Approx. 65 Lbs. (29.5 kg.) Per Roll 108 Sq. Ft. ($10m^2$) Per Roll 36 Lin. Ft. (10.97m) Per Roll 30 Rolls Per Pallet	No Fixtures Approx. 65 Lbs. (29.5 kg.) Per Roll 108 Sq. Ft. (29.5 kg.) Per Roll 36 Lin. Ft. (10.97m) Per Roll 25 Rolls Per Pallet	No Fixtures Approx. 65 Lbs. (29.5 kg.) Per Roll 108 Sq. Ft. ($10m^2$) Per Roll 36 Lin. Ft. (10.97m) Per Roll 30 Rolls Per Pallet
36" (.914m) **OLD RELIABLE**™	No Fixtures Approx. 50 Lbs. Per Roll 108 Sq. Ft. ($10m^2$) Per Roll 36 Lin. Ft. (10.97m) Per Roll 36 Rolls Per Pallet	No Fixtures Approx. 50 Lbs. (22.7 kg.) Per Roll 108 Sq. Ft. ($10m^2$) Per Roll 36 Lin. Ft. (10.97m) Per Roll 36 Rolls Per Pallet	No Fixtures Approx. 50 Lbs. (22.7 kg.) Per Roll 108 Sq. Ft. ($10m^2$) Per Roll 36 Lin. Ft. (10.97m) Per Roll 36 Rolls Per Pallet

BIRD ASPHALT FELT

GROUP PRODUCTS A-16	MARTINEZ	PORTLAND	WILMINGTON
ASPHALT FELT NO. 15 PLAIN 36" Wide (.914m)	3 Sq. Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. ($30.1m^2$) Per Roll 30 Rolls Per Pallet ——— 4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. ($40.1m^2$) Per Roll 25 Rolls Per Pallet	3 Sq. Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. ($30.1m^2$) Per Roll 30 Rolls Per Pallet ——— 4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. ($40.1m^2$) Per Roll 25 Rolls Per Pallet	——— 4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. ($40.1m^2$) Per Roll 25 Rolls Per Pallet
ASPHALT FELT NO. 30 PLAIN 36" Wide (.914m)	2 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 216 Sq. Ft. ($20.07m^2$) Per Roll 25 Rolls Per Pallet	2 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 216 Sq. Ft. ($20.07m^2$) Per Roll 25 Rolls Per Pallet	2 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 216 Sq. Ft ($20.07m^2$) Per Roll 25 Rolls Per Pallet

BIRD BUILT-UP ROOF PRODUCTS

GROUP PRODUCTS A-10	MARTINEZ	PORTLAND	WILMINGTON
NEPONSET™ **CAP SHEET**	FOREST GREEN MOIRE BLACK WHITE ——— ½ Sq. Roll No Fixtures Approx. 60 Lbs. (27.2 kg.) Per Roll Type 30 B-U U/L 25 Rolls Per Pallet	FOREST GREEN MOIRE BLACK WHITE ——— ½ Sq. Roll No Fixtures Approx. 60 Lbs. (27.2 kg.) Per Roll Type 30 B-U U/L 25 Rolls Per Pallet	NOT AVAILABLE

GROUP PRODUCTS B-30	MARTINEZ	PORTLAND	WILMINGTON
ASPHALT FELT NO. 15 PERFORATED 36" Wide (.914m)	3 Sq. Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. (40.1m²) Per Roll 30 Rolls Per Pallet 4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. (40.1m²) Per Roll 25 Rolls Per Pallet	3 Sq. Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. (30.1m²) Per Roll 30 Rolls Per Pallet 4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. (40.1m²) Per Roll 25 Rolls Per Pallet	4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. (40.1m²) Per Roll 25 Rolls Per Pallet
GROUP PRODUCTS B-25	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
BONDED BASE SHEET 36" Wide (.914m) For Hot or Cold Application	2 Sq. Roll — 3" Lap (76mm) No Fixtures Approx. 82 Lbs. (37.2 kg.) Per Roll 222 Sq. Ft. (20.62m²) Per Roll Type 15 B-U U/L 23 Rolls Per Pallet	2 Sq. Roll — 3" Lap (76mm) No Fixtures Approx. 82 Lbs. (37.2 kg.) Per Roll 222 Sq. Ft. (20.62m²) Per Roll Type 15 B-U U/L 23 Rolls Per Pallet	2 Sq. Roll — 3" Lap (76mm) No Fixtures Approx. 82 Lbs. (37.2 kg.) Per Roll 222 Sq. Ft (20.62m²) Per Roll Type 15 B-U U/L 23 Rolls Per Pallet
B-U BASE SHEET 36" Wide (.914m) For Hot or Cold Application	2 Sq Roll — 2" Lap (51mm) No Fixtures Approx. 80 Lbs. (36.3 kg.) Per Roll 216 Sq. Ft (20.07m²) Per Roll 25 Rolls Per Pallet	2 Sq Roll — 2" Lap (51mm) No Fixtures Approx 80 Lbs. (36.3 kg.) Per Roll 216 Sq. Ft. (20.07m²) Per Roll 25 Rolls Per Pallet	2 Sq. Roll — 2" Lap (51mm) No Fixtures Approx. 80 Lbs. (36.3 kg.) Per Roll 216 Sq. Ft. (20.07m²) Per Roll 25 Rolls Per Pallet
GROUP PRODUCTS I-39	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
ASBESTOS CAP SHEET 36" Wide (.914m) Type 15 B-U U/L	WHITE ONLY 1 Sq. Roll No Fixtures Approx. 80 Lbs. (36.3 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 30 Rolls Per Pallet	WHITE ONLY 1 Sq. Roll No Fixtures Approx. 80 Lbs. (36.3 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 25 Rolls Per Pallet	WHITE ONLY 1 Sq. Roll No Fixtures Approx. 80 Lbs. (36.3 kg.) Per Roll 108 Sq. Ft. (10m²) Per Roll 30 Rolls Per Pallet
ASPHALT SATURATED ASBESTOS FELT NO. 15 PERFORATED 36" Wide (.914m)	3 Sq Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. (30.1m²) Per Roll 36 Rolls Per Pallet	3 Sq. Roll Approx. 45 Lbs. (20.4 kg.) Per Roll 324 Sq. Ft. (30.1m²) Per Roll 36 Rolls Per Pallet	4 Sq. Roll Approx. 60 Lbs. (27.2 kg.) Per Roll 432 Sq. Ft. (40.1m²) Per Roll 33 Rolls Per Pallet
GROUP PRODUCTS A-16	**MARTINEZ**	**PORTLAND**	**WILMINGTON**
NO. 30 SHAKE FELT	Two 18" Pcs. (.46m) Per Roll Approx 48 Lbs. (21.8 kg.) Per Pc. 120 Lin. Ft. (36.58m) Per Pc. 32 Pcs Per Pallet	Two 18" Pcs. (.46m) Per Roll Approx. 48 Lbs. (21.8 kg.) Per Pc 120 Lin. Ft (36.58m) Per Pc. 32 Pcs Per Pallet	Two 18" Pcs. (.46m) Per Roll Approx. 48 Lbs. (21.8 kg.) Per Pc. 120 Lin Ft. (36.58m) Per Pc. 32 Pcs Per Pallet

BIRD 021967

ROOF PRODUCTS cont.

Metric Equivalent Shown (Approx.)

GROUP PRODUCTS T-60	MARTINEZ	PORTLAND	WILMINGTON
ASPHALT	LOW MELT ASTM D312 Type I MEDIUM MELT ASTM D312 Type II HIGH MELT ASTM D312 Type III EXTRA HIGH MELT ASTM D312 Type IV AVAILABLE Under Published Prices, Terms And Conditions Subject To Stock Available At Refineries	LOW MELT ASTM D312 Type I MEDIUM MELT ASTM D312 Type II HIGH MELT ASTM D312 Type III EXTRA HIGH MELT ASTM D312 Type IV AVAILABLE Under Published Prices, Terms And Conditions Subject To Stock Available At Refineries	LOW MELT ASTM D312 Type I MEDIUM MELT ASTM D312 Type II HIGH MELT ASTM D312 Type III EXTRA HIGH MELT ASTM D312 Type IV AVAILABLE Under Published Prices, Terms And Conditions Subject To Stock Available At Refineries

CEMENTS AND COATINGS

GROUP PRODUCTS G-36	MARTINEZ	PORTLAND	WILMINGTON
REFLECTO-COAT™ ALUMINUM SURFACING New formula reflective coating. Lowers interior temperatures by reflecting solar heat. Easy to apply brush or spray. Use over surface coated with asphalt emulsion or mineral surfaced roofing in good condition. Also for metal roofs, concrete, or masonry Use on mobile home and truck-trailer roofs. Coverage — Approx. 1 gallon per 100 sq. ft	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 47½ lbs. (21.77 kg.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 47½ lbs. (21.6 kg.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 47½ lbs. (21.6 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 523 lbs. (237.2 kg.) (55 Gal. on Special Order Only) (208.2 L.)
NO. 56 FIBRE ROOF COATING (Fibrated) Fed Spec. SS-A-694D Reinforced with asbestos fibre — protects asphalt or metal roofing dampproofing concrete in home farm or factory Coverage — 1 to 2 gallons per 100 sq. ft	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 36-54 lbs. (16.3 kg. – 24.5 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs. (20.4 kg.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 36-54 lbs. (16.3 kg. – 24.5 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs. (20.4 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 495 lbs. (224.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs. (20.4 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 495 lbs. (224.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)

BIRD 021968

GROUP PRODUCTS G-36	MARTINEZ	PORTLAND	WILMINGTON
NO. 57 PLAIN ROOF COATING (Non-Fibrated) Jet Black liquid asphalt for weatherproofing and waterproofing asphalt or metal roofing and concrete, outside, inside, and underground Tough, elastic, long-lasting. Coverage — 1 to 2 gallons per 100 square feet.	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg 36-54 lbs (16.3 kg — 21.5 kg.) Container size 5 gals (18.93 L.) Approx wt per pkg 45 lbs (20.4 kg.) Container size 55 gals (208.2 L.) Approx wt per pkg 495 lbs. (224.5 kg.) (55 Gal on Special Order Only) (208.2 L.)	Container size 1 gal (3.79 L.) Packaged per case 4-6 cans Approx wt per pkg. 36-54 lbs (16.3 kg — 24.5 kg.) Container size 5 gals (18.93 L.) Approx wt per pkg 45 lbs. (20.4 kg.) Container size 55 gals. (208.2 L.) Approx wt. per pkg 495 lbs (224.5 kg.) (55 Gal on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt per pkg. 45 lbs (20.4 kg.) Container size 55 gals (208.2 L.) Approx wt per pkg. 495 lbs (224.5 kg.) (55 Gal on Special Order Only) (208.2 L.)
NO. 164 "WET PATCH" (Coal Tar Base) Fed Spec SS-C-153C, Type II Ideal leak-fixer. A thick, black, gummy plastic, reinforced with asbestos fibres Applicable during rainstorm or thaw. Sticks fast to wet, damp or dry surfaces. Fixes leaks in roofs, flashings, gutters, valleys, skylight glass and frames, ventilator collars, rain pipes, copings Makes a strong waterproof patch that will not become brittle Troweling 1/16" (1.59mm) thick by 100 (9.29m²) square feet requires approx 4 (15.14 L.) gallons	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg 50-75 lbs (22.7 kg. — 34 kg.) Container size 5 gals. (18.93 L.) Approx. wt per pkg. 62½ lbs. (28.4 kg.)	Container size ¼ gal. (.95 L.) Packaged per case 12 cans Approx. wt per pkg. 37½ lbs. (17 kg.) Container size 1 gal (3.79 L.) Packaged per case 4-6 cans Approx wt per pkg. 50-75 lbs (22.7 kg — 34 kg.) Container size 5 gals. (18.93 L.) Approx wt. per pkg 62½ lbs (28.4 kg.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 50-75 lbs. (22.7 kg — 34 kg.) Container size 3 gal (11.35 L.) Approx. wt per pkg 37½ lbs. (17.05 kg.) Container size 5 gals (18.93 L.) Approx wt per pkg. 62½ lbs. (28.4 kg.)
NO. 174 "WET PATCH" (Asphalt Base) Fed Spec. SS-C-153C, Type I A thick, black, gummy plastic, reinforced with asbestos fibres Applicable during rainstorm or thaw Sticks fast to wet, damp, or dry surfaces Fixes leaks in roofs, flashings, gutters, valleys, skylight glass and frames, ventilator collars, rain pipes, copings Troweling 1/16" (1.59mm) thick by 100 (9.29m²) square feet requires approx 4 (15.14 L.) gallons.	Container size ¼ gal. (.95 L.) Packaged per case 12 cans Approx wt per pkg 37½ lbs (17 kg.) Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx wt. per pkg. 50-75 lbs (22.7 kg — 34 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg 62½ lbs (28.4 kg.)	Container size ¼ gal (.95 L.) Packaged per case 12 cans Approx wt per pkg. 37½ lbs (17 kg.) Container size 1 gal (3.79 L.) Packaged per case 4-6 cans Approx wt per pkg 50-75 lbs. (22.7 kg. — 34 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 62½ lbs. (28.4 kg.)	NOT AVAILABLE
NO. 186 ASPHALT EMULSION (Plain) Pure asphalt emulsion for dampproofing concrete and masonry surfaces Also a protective coating for asphalt roofs Apply by brush or spray Coverage — up to 4 (15.14 L.) or 5 (18.93 L.) gals per 100 (9.29m²) sq ft, depending upon type of surface and slope	Container size 1 gal (3.79 L.) Packaged per case 4-6 cans Approx wt per pkg 40-60 lbs (18.1 kg — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx wt per pkg 50 lbs (22.7 kg.) Container size 55 gals (208.2 L.) Approx wt per pkg 550 lbs (249.5 kg.) (55 Gal on Special Order Only) (208.2 L.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt per pkg 40-60 lbs (18.1 kg — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx. wt per pkg 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx wt per pkg 550 lbs (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx wt per pkg. 550 lbs. (249.5 kg.) (55 Gal on Special Order Only) (208.2 L.)

BIRD 021969

GROUP PRODUCTS G-36	MARTINEZ	PORTLAND	WILMINGTON
NO. 187 ASPHALT EMULSION (Fibrated) Fed. Spec. SS-R-1781 ASTM D1227-76 Type I Similar to above but heavier consistency due to addition of long asbestos fibres. For brush application. Can be sprayed with special heavy duty equipment. Coverage — up to 5 (18.93 L.) or 6 (22.71 L.) gals. per 100 (9.29m²) sq. ft. depending upon types of surface and slope	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 5 gals (18.93 L.) Approx. wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 50 lbs (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt per pkg. 550 lbs (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)
NO. 1042 HYDROSEAL® PLASTIC CEMENT (Black) Fed Spec SS-C-153C, Type I All-purpose weatherproofer, easy-spreading plastic Repairs roofs, flashings, gutters, valleys, skylight glass and frames, ventilators, collars, rain pipes, copings, tanks, reservoirs, light wells, concrete walks, etc. Troweling 1/16" (1.59mm) thick by 100 (9.29m²) square feet requires approx. 4 gallons.	Container size ¼ gal. (.95 L.) Packaged per case 12 cans Approx. wt. per pkg. 30 lbs. (13.6 kg.) Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs (18.1 kg. — 27.2 kg.) Container size 3 gals. (11.4 L.) Approx. wt. per pkg. 30 lbs. (13.5 kg.) Container size 5 gals (18.93 L.) Approx. wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size ¼ gal. (.95 L.) Packaged per case 12 cans Approx. wt. per pkg 30 lbs. (13.6 kg.) Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx wt. per pkg 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 3 gals. (11.35 L.) Approx wt. per pkg. 30 lbs. (13.6 kg.) Container size 5 gals. (18.93 L.) Approx wt. per pkg. 50 lbs. (22.7 kg.)	Container size 1 gal (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg — 27.2 kg.) Container size 3 gals. (11.35 L.) Approx. wt. per pkg. 30 lbs. (13.6 kg.) Container size 5 gals. (18.93 L.) Approx. wt per pkg. 50 lbs. (22.7 kg.) Container size 55 gals (208.2 L.) Approx. wt. per pkg. 550 lbs (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)
NO. 1044 SPOT-WELD HYDROSEAL® Fed Spec SS-C-153C, Type I A plastic cement with a consistency for gun application Particularly adapted for "spot welding" down tabs of asphalt shingles.	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 44-66 lbs. (20 kg. — 29.9 kg.) Container size 5 gals. (18.93 L.) Approx. wt per pkg. 55 lbs. (25 kg.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx wt. per pkg 44-66 lbs. (20 kg. — 29.9 kg.) Container size 3 gals. (11.35 L.) Approx wt. per pkg 33 lbs. (15 kg.) Container size 5 gals. (18.93 L.) Approx. wt per pkg. 55 lbs. (25 kg.)	Container size 5 gals. (18.93 L.) Approx wt. per pkg. 55 lbs. (25 kg.)
NO. 1099 CONCRETE ROOF PRIMER Fed. Spec. SS-A-701 ASTM D-41-73 Pure asphalt-base primer for building a bonding foundation on concrete decks or walls. Use as first coat before application of bonding agent under a built-up roof. Use also under application of roof coatings or other asphalt coatings. Sets in an hour under average conditions Coverage — approximately 1 gallon per sq. (3.8 L.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs. (20.4 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 495 lbs. (224.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs (20.4 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 495 gals. (224.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 45 lbs. (20.4 kg.) Container size 55 gals. (208.2 L.) Approx wt. per pkg 495 gals. (224.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)

BIRD 021970

GROUP PRODUCTS G-36	MARTINEZ	PORTLAND	WILMINGTON
NO. 4731 SPECIAL FLASHING COMPOUND Fed Spec SS-C-153C, Type I Premium quality for bonding and sealing flashings in professional roof construction. Holds flashing firmly in place and sets quickly. Will not slip or pull loose Coverage: Approximately 12½ sq. ft. ⅛" thick per gallon (1.16m² — 3.2mm)	Container size 3 gal. (11.35 L.) Approx. wt. per pkg. 33 Lbs. (15kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 55 lbs. (25 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 605 lbs. (274.4 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 55 lbs. (25 kg.)	Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 55 lbs. (25 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 605 lbs. (274.4 kg.) (55 Gal. on Special Order Only) (208.2 L.)
NO. 1051 LAP CEMENT Extremely adhesive asphalt cement for sealing seams and laps of asphalt roofing. Forms tight waterproof joints. One gallon to approximately 8 rolls of roofing (108 square feet each). (10.03m²)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18 kg. — 27 kg.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg. — 27.2 kg.)	NOT AVAILABLE
NO. 1060 BUCA® COLDHESIVE CEMENT Heavy bodied asphaltic base cement. Quick setting. Recommended for cold process built-up roof construction, instead of hot asphalt, for bonding the plies together. Coverage — 2 gallons per 100 square feet per brushing between plies.	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)	Container size 1 gal. (3.79 L.) Packaged per case 4-6 cans Approx. wt. per pkg. 40-60 lbs. (18.1 kg. — 27.2 kg.) Container size 5 gals. (18.93 L.) Approx. wt. per pkg. 50 lbs. (22.7 kg.) Container size 55 gals. (208.2 L.) Approx. wt. per pkg. 550 lbs. (249.5 kg.) (55 Gal. on Special Order Only) (208.2 L.)

GROUP PRODUCTS O	ALL LOCATIONS
CARPENTER APRONS	 FOB Mexico, Missouri Made of 8 oz. White . . . fastenings re-enforced with thread tacks, imprinted with your name in three colors . . . Neck Band Style . . . Waist Style, no bib Minimum quantity 50



FIBERGLASS THICK BUTT
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PERTH AMBOY, NEW JERSEY	Amboy Avenue, 08861 Tel. (201) 442-7030
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MARTINEZ, CALIFORNIA	110 Waterfront Road, 94554 Tel. (415) 228-1300
WILMINGTON, CALIFORNIA	1431 West "E" Street , 90744 Tel (213) 830-0250
CHICAGO, ILLINOIS	6606 S. Central Avenue, 60638 Tel. (312) 496-2800
FRANKLIN, OHIO	Warren County, 45005 Tel. (513) 746-4561

PLASTIC PRODUCTS DIVISION (Plant and Office)
BARDSTOWN, KENTUCKY — Shawhan Lane, 40004
Tel (502) 348-9231

BIRD 021972