PLAINTIFF'S EXHIBIT

BIR-993

DRAKE 30M 5-79

MEMORANDUM
SHREVEPORT

In Reply to _____ Date 7-16-79 From PSL Ladner To Butte, Kirklin F. Clark -- BBQ

Subject STANDARD SPECIFICATIONS

Please issue new cards for the attached Blende. Twelve cards are needed.

7-18-79

POLL:dn

BIRD & SON

From: FORREST CLARK - BBQ

7/17/79

Ruth,

The superseded card is Wind Seals which they do not make now. The new blend is for Jet II which they have been making using the W.S. blend card.

The Hip & Ridge card is a superseded one.

FC

PRODUCT SPECIFICATIONS

7-1-79
7-20-79

Division SHREVEPORT, LA.

MACHINE #

SHADE MIXTURE - #11 GRANULES

PRODUCT CODE

PRODUCT NAME JET# DAWN MIST

ISSUED DATE 7/16/79
REV:

SUPERSEDES:

CODE	HOPPER NO.	%	KIND OF SLATE
	1	35	LR 22 RED
		30	G-100 BLACK
		35	A-720 WHITE
	2	50	A-720 WHITE
		25	LR 22 RED
		25	G-100 BLACK
	3	50	LR 22 RED
		35	A-720 WHITE
		15	G-100 BLACK
	4 SPILLOVER		
	% SLATE PER/SQ.	36.7	LR 22 RED
		23.3	G-100 BLACK
		40.0	A-720 WHITE

CD OPERATING SPEED PRODUCTION CREW SIZE UNIT

COLORS:

BIRD 014504

PRODUCT SPECIFICATIONS

Division SHREVEPORT, LA.

MACHINE #

SHADE MIXTURE - #11 GRANULES

PRODUCT CODE

PRODUCT NAME DAWN MIST UNIVERSAL HIP & RIDGE

ISSUED DATE 7/16/79

REV:

SUPERSEDES: 4/24/73

CODE	HOPPER NO.	%	KIND OF SLATE
	4	36.7	LR 22 RED
		23.3	G-100 BLACK
		40.0	A 720 WHITE

CD OPERATING SPEED PRODUCTION CREW SIZE UNIT

COLOR:

BIRD 014505

5M 12-77 DRAKE

MEMORANDUM

SHREVEPORT

In Reply to | Date 5-18-79 | From PSL Ladner | To Mr. Frank Burris, Mr. F. Clark - BBQ

Subject STANDARD CARD

Please issue new cards on the attached blends. Twelve cards are needed.

5-21-79
5-23-79

Poll
POLL:dh

Sh. Mix - Meadow Mint Jet, #23 W.S.
" " Desert Brown

OK

PRODUCT SPECIFICATIONS

DIVISION SHREVEPORT, LA. MACHINE #

ISSUED DATE 5-18-79
REV.

PRODUCT CODE

PRODUCT NAME Shade Mixture #11 Granules
Meadow Mist - Jet # 23 Wind Seal

SUPERSEDES: 3-8-78

CODE	HOPPER NO	%	KIND OF SLATE
	1	45	LR 76 GRAY
		40	A 720 WHITE
		15	A 171 GREEN
	2	65	A 720 WHITE
		20	LR 76 GRAY
		15	A 171 GREEN
	3	50	A 171 GREEN
		40	A 720 WHITE
		10	LR 76 GRAY
	4	Spillover	

CAM SETTING

Hopper #1 - Starts 220° Stops 265°
Hopper #2 - Starts 120° Stops 210°
Hopper #3 - Starts 0° Stops 65°

% SLATE PER SQ.

3 M LR 76 GRAY	22.4%
A 720 WHITE	51.2%
A 171 GREEN	26.4%

RCD Operating Speed Production Crew Size Unit

Color:

BIRD 014507

PRODUCT SPECIFICATIONS

DIVISION SHREVEPORT, LA. MACHINE #

ISSUED DATE 5-18-79
REV.

PRODUCT CODE

PRODUCT NAME Shade Mixture #11 Granules DESERT BROWN Jet # 23 Wind Seal

SUPERSEDES: 3-8-78

CODE	HOPPER NO	%	KIND OF SLATE
	1	45	A 720 WHITE
		55	LR 65 BUFF
	2	65	A 720 WHITE
		35	LR 65 BUFF
	3	30	A 720 WHITE
		70	LR 65 BUFF
	4	Spillover	

CAM SETTING

Hopper #1 - Starts 220° Stops 265°
Hopper #2 - Starts 120° Stops 210°
Hopper #3 - Starts 0° Stops 65°

% SLATE PER SQ.

A 720 WHITE 49.1%
LR 65 BUFF 50.9%

RCD Operating Speed _____ Production Crew Size _____ Unit _____

Color: _____

BIRD 014508

PRODUCT SPECIFICATIONS

ISSUED DATE 4/23/7
REV. 11/18/74

DIVISION SHREVEPORT, LA.

MACHINE # SHADE MIXTURE - #11 GRANULES

PRODUCT CODE

PRODUCT NAME/DESERT BROWN - #23 WIND SEAL

SUPERSEDES: 2/1/67

CODE	HOPPER NO.	%	KIND OF SLATE
	1	35	A720 ~~A701~~ White
		65	LR 49 Brown
	2	70	A720 ~~A701~~ White
		30	LR 49 Brown
	3	10	A720 ~~A701~~ White
		90	LR 49 Brown
	4	Spillover	

Cam Setting
Hopper #1 - Starts 220°, Stops 265°
Hopper #2 - Starts 120°, Stops 210°
Hopper #3 - Starts 0°, Stops 65°

% Slate per Sq.
A720 A701 White ---------- 42.6%
LR 49 Brown ---------- 57.4%

RCD Operating Speed Production Crew Size Unit

Color

BIRD 014509

PRODUCT SPECIFICATIONS

DIVISION SHREVEPORT, LA. MACHINE #

ISSUED DATE 4/23/73
REV. 11/8/74

PRODUCT CODE PRODUCT NAME SHADE MIXTURE - #11 GRANULES
MEADOW MIST - W. S.JET , #23 WIND SEAL

SUPERSEDES: 2/1/67

CODE	HOPPER NO.	%	KIND OF SLATE
			76
	1	66-2/3	LR ~~74~~ Gray
		33-1/3	A720 ~~A701~~ White
	2	68	A720 ~~A701~~ White
		16	76 LR ~~74~~ Gray
		16	16 LR ~~19~~ Green
	3	75	16 LR ~~19~~ Green
		25	A-720 ~~A701~~ White
	4	Spillover	

Cam Setting
Hopper #1 - Starts 220°, Stops 265°
Hopper #2 - Starts 120°, Stops 210°
Hopper #3 - Starts 0°, Stops 65°

% Slate per Sq.
3M LR 74 Gray ---------- 22.1%
3M LR 19 Green --------- 31.6%
A720 ~~A701~~ White ---------- 46.3%

RCD Operating Speed Production Crew Size Unit

Color

BIRD 014510

PRODUCT SPECIFICATI

DIVISION SHREVEPORT, LA.

MACHINE #10

ISSUED DATE 1-19

REV: 9-21-1979

PRODUCT CODE 0637000

PRODUCT NAME: GLASS BILT JET II RANDOM TAB DOUBLE SURFACE SHINGLES

SUPERSEDES: 1-19-79

SIZE: 12"x36" (Overall 36-3/16"). 3/16"x5" cutout laying mark one end, 3/16"x5" laying mark extension other end, in base of shingle. Exposure 5"-(4" cutouts). Thick butt portion-6 1/8"x36". Sq.Ft. Material per Sq. (Net) 237.22. Shingles per sq.-80, Bdls. per Sq.-3. Total Wt. per Sq.-227.0. Wind Seal dots applied 6-3/4" from butt of shingle, minimum size 1" length x 3/4" width, 9 dots per shingle, maximum spacing 4" on center. Minimum height of dots 0.25" above base when run. Bradford Flakes applied in 4" band down center of back of shingle.

CODE	RAW MATERIALS PER SQ. DESCRIPTION	MATERIALS PER SQUARE NET WEIGHT	GROSS WEIGHT	NET PER 100 SQ. FT.
	Base: 240 Sq. Ft.			
29610	Felt - J/M Dura Glass	~~7.2~~ 4.8	~~7.5~~ 5.0	~~3.0~~ 2.0
T4200	Coating - #21½	~~47.2~~ 48.4	~~48.6~~ 49.9	~~19.5~~ 20.3
56200	Filler - 55%	~~57.6~~ 58.8	~~59.3~~ 60.6	~~24.0~~ 24.5
56406	Surfacing - Base #11 Glenwood	52.0	54.6	21.7
59050	Backing - Talc Pioneer 36	2.0	3.4	0.8
12150	Wind Seal Adhesive	1.8	1.8	
56675	Bradford Flakes	0.2	0.2	
	TOTAL GROSS WT: per 240 Sq. Ft.	168.0		69.2
	Overlay: 122.5 Sq. Ft.			
T4200	Coating - #21½	12.7	13.1	10.4
56200	Filler - 55%	15.6	16.1	12.7
56150	Surfacing - Colored #11 Oiled	33.0	36.3	26.9
	TOTAL WT.	229.3		50.0
	Less Cutouts (2.78 sq.ft.)	3.3		
	NET WT. 1 SQ.	226.0		
	Finishing Materials	1.0		
	SHIPPING WT.	227.0		

FINISHING MATERIALS: Each bundle wrapped with one printed 80# Kraft wrapper 35.8 repeat, 42½ width, top flap and ends glued. Wrapper Wt. 1.0# per sq.-Glue (Ends Only). 0.015#/Sq., Adhesive No. 3950, H. B. Fuller & Co. Top glued with Asphalt Saturation - 0.1#/Sq.

ROD Operating Speed 380 Production Crew Size 18 UNIT Square

COLORS: White, Moire Black, Mahogany, Adobe, Wood Blende

BIRD 014511

PRODUCT SPECIFICATIONS

DIVISION SHREVEPORT, LA. MACHINE #

REV: 1-3-77

PRODUCT CODE 06-11-000 PRODUCT NAME #23 WIND SEAL SHINGLES

SUPERCEDES: 4-26-73

SIZE: 12" x 36", Cut-outs 5" x ~~3/8"~~ 1/4", Headlap - 2". Double Surfaced Portion - 6.144" x 36". Sq. Ft. Material per Sq. ÷ Gross - 240.0; Net - ~~236.9~~ 237.6 Shingles per Sq. - 80 Per Bdle. - 27, 27, 26, Net Wt. per Sq. 233.8. Net Wt. per Bdle. - ~~77.9~~ 79.2. Wind Seal dots applied 6 3/4" from butt of shingle, minimum dots size 1" length x 3/4" width, 9 dots per shingle, maximum spacing 4" on center. Rubars Anti-Stick applied in 4" bands down center of back shingle.

NOTE: This Standard for use when shingles wrapped on new automatic wrapping machine.

CODE	RAW MATERIALS PER SQ. DESCRIPTION	MATERIALS PER SQUARE NET WEIGHT	MATERIALS PER SQUARE GROSS WEIGHT	NET PER 100 Sq. Feet
	Base: 240 Sq. Ft.			
28800	Felt - 55# x 48"	~~27.1~~ 27.0	30.3	11.3
15400	Saturation - #14-½ - 175%	~~47.3~~ 47.2	~~48.7~~ 48.6	19.7
14200	Coating - #21-½	~~24.5~~ 24.3	~~25.2~~ 25.0	~~10.2~~ 10.1
56200	Filler - 53%	~~27.8~~ 27.5	~~28.6~~ 28.3	~~11.6~~ 11.5
56406	Surfacing - #11 Base Glenwood-Oiled	52.0	54.6	21.7
59050	Backing - Talc Pioneer 36	2.0	3.4	0.8
12150	Wind Seal Adhesive	1.8	1.8	0.8
56675	Bradford Flakes	0.2	~~0.3~~ 0.2	0.1
	TOTAL - Gross Wt. per 240 Sq. Ft.	~~182.7~~ 182.0	~~192.9~~ 192.2	~~76.2~~ 76.0
	Overlay: 122.5 Sq. Ft.			
14200	Coating - #21-½	~~10.4~~ 10.1	~~10.7~~ 10.4	~~8.5~~ 8.2
56200	Filler - 53%	~~11.6~~ 11.4	~~11.9~~ 11.7	~~9.5~~ 9.3
56150	Surfacing - Colored #11 Oiled	33.0	36.3	26.9
	TOTAL - Gross Wt. - 240 Sq. Ft.	~~237.7~~ 236.5	~~251.8~~ 250.6	~~121.1~~ 121.4
	Less Cut-outs - ~~3.1 Sq. Ft.~~ 2.1 sq. ft.	~~3.7~~ 2.5	~~4.0~~	
	Net Weight	234.0	~~247.8~~	
	Finishing Materials	1.0		
	Shipping Weight	235.0		

FINISHING MATERIALS: Variation in Shipping Wt. - Max. (27 Ct.) - 82.0#; Min. (26 Ct.) - 75.0#. Each bundle wrapped with one Kraft wrap-around printed 80# Kraft wrapper - 35.8" repeat 42¼" width, top flap and ends glued. Wrapper 1 color - Green on Kraft. Wrapper Wt. 1.0# per Sq. - (Glue Ends Only) - 0.015#/Sq. Adhesive - No. 3950, H. B. Fuller & Co. Top Glued with Asphalt Flux 0.1#/Sq. Underwriters' Label - 1 - Class C Shingles Wind Resistant - 1962 Standard - Printed on as wrapper is glued.

RCD OPERATING SPEED 450 Sq./Hour PRODUCTION CREW SIZE 16 UNIT Square

COLORS: Black, Colonial Green, Dawn Mist, Desert Brown, Flint Blende, Meadow Mist, Snow White, Wood Blende, Moire Black, Gray, Shadow Blde., Brown Blde, Slate Blde, Russet Glo, Brite Red (SEE REVERSE SIDE)

BIRD 014512

FINISHING MATERIALS CONTINUED:

Directions printed on each wrapper.
Wt. of Base per 100 Sq. Ft. - 753#; Wt. of T. B. Per 100 Sq. Ft. 120.1#
Date of Manufacture, color printed on each side of bdle.
The unit of pick up is 14 shingles, face up, in 1st handful, 13 shingles, face up, but reversed, 2nd handful.

NOTE: Back Coating must be 3.0#/Sq. Ft. Min.
Sheet must be dry top and bottom as it is pulled out of finished looper.

BIRD 014513

FROM: CARROLL HOMAN - BBQ

Ruth This is
a new product.
Bill Kirklin needs
13 Copies

Glass Butt Firemen
3-26-79
4-5-79

CAH

PRODUCT SPECIFICATIONS

DIVISION SHREVEPORT, LA.

MACHINE #10

ISSUED DATE 3/23/79

REV:

PRODUCT CODE 0635-000

PRODUCT NAME Glass Bilt Fire Screen

SUPERSEDES:

Thickbutt - 3 Tab

SIZE: 12" x 36", Cut-outs 5" x 1/4" Headlap - 2". Double Surfaced Portion - 6.144" x 36". Sq. Ft. Material per Sq. ± Gross - 240.0; Net - 237.9 Shingles per Sq. - 80 Per Bdle. - 27, 27, 26, Wt. per Sq. 227.0 Wt. per Bdle. - 75.7 , Wind Seal dots applied 6 3/4" from butt of shingle, minimum dots size 1" length x 3/4" width, 9 dots per shingle, maximum spacing 4" on center. Rubars Anti-Stick applied in 4" bands down center of back shingle.

NOTE: This Standard for use when shingles wrapped on new automatic wrapping machine.

CODE	RAW MATERIALS PER SQ. DESCRIPTION	MATERIALS PER SQUARE NET WEIGHT	GROSS WEIGHT	NET PER 100 Sq. Feet
	Base: 240 Sq. Ft.			
29610	J/M Dura - Glass 7106	7.2	7.6	3.0
14200	Coating - #21 - ½	46.8	48.2	19.5
56200	Filler - 55%	57.2	58.9	23.8
56406	Surfacing - #11 Base Glenwood-Oiled	52.0	54.6	21.7
59050	Backing - Talc Pioneer 36	2.0	3.4	0.8
12150	Wind Seal Adhesive	1.8	1.8	
56675	Bradford Flakes	0.2	0.2	
	TOTAL - Wt. per 240 Sq. Ft.	167.2		68.8
	Overlay: 122.5 Sq. Ft.			
14200	Coating - #21-½	12.7	13.1	10.4
56200	Filler-55%	15.6	16.1	12.7
56150	Surfacing - Colored #11 Oiled	33.0	36.3	26.9
	TOTAL - Wt. - 240 Sq. Ft.	228.5		50.0
	Less Cut-outs - 2.1 Sq. Ft.	2.5		
	Net Weight	226.0		
	Finishing Materials	1.0		
	Shipping Weight	227.0		

FINISHING MATERIALS: Variation in Shipping Wt. - Max. 227.0 - Min. 225.0
Each bundle wrapped with one Kraft wrap-around printed 80# Kraft wrapper - 34" repeat 42¼" width, top flap and ends glued.
Wrapper color - Red/Black Wrapper Wt. 1.0# per Sq. - (Glue Ends Only) - 0.015#/Sq. Adhesive - No. 3950, H. B. Fuller & Co. Top Glued with Asphalt Flux 0.1#/Sq.
Underwriters' Label - 1 - Class A Shingles Wind Resistant - Printed on as wrapper is glued.

RCD Operating Speed 380 Production Crew Size 16 Unit Square

Colors:

BIRD 014515

Ruth!

4-5-79 to PSL

Would you please have the person who sent this answer the places where the ???? are!!

Almost impossible to read at all!

Thanks so much –

Claire – RSOE

This came from FS.
Carroll Homan tried to make it more legible. Call if you have any more problems with it. Ruth.