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## **New deep corrugated "durabestos" : asbestos-cement roofing and wall-siding : the new "nesting profile" corrugated sheeting**

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PUBLICATION DATE

01-01-1900

HANDLE

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# Wunderlich

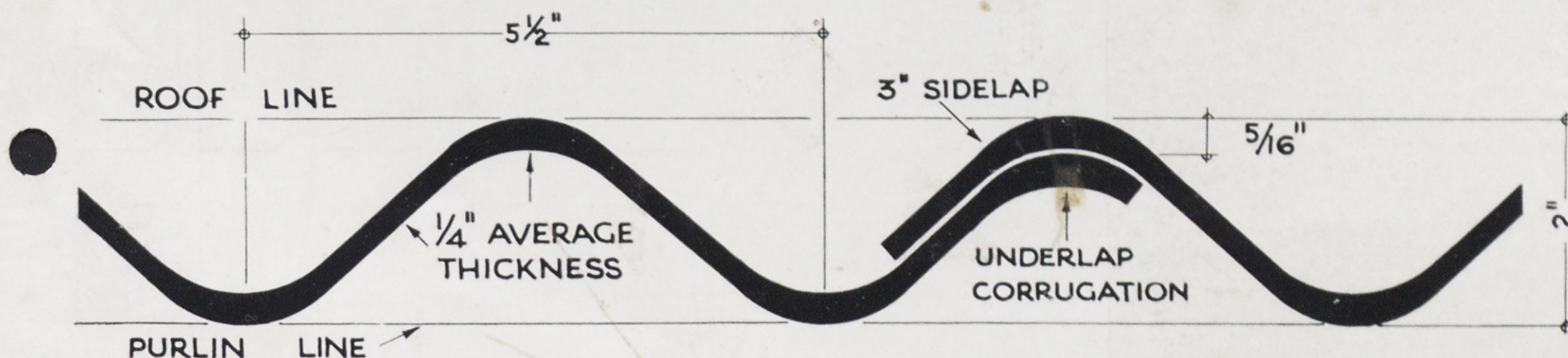
## NEW DEEP CORRUGATED DURABESTOS

ASBESTOS - CEMENT ROOFING AND WALL - SIDING

★ THE NEW "NESTING PROFILE" CORRUGATED SHEETING

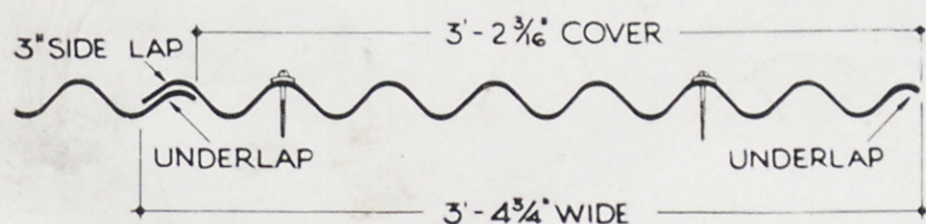
### TECHNICAL INFORMATION — FIXING INSTRUCTIONS

NOTE: Figured dimensions, where shown, are "Nominal"



**IDENTIFICATION:** NEW DEEP CORRUGATED "DURABESTOS" sheets are readily identified by (1) comparison with the corrugated profile illustrated above, (2) the thickened crowns and valleys of the corrugations, (3) the low underlap corrugation along one edge of the sheet. The latter is designed to ensure accurate and weathertight fitting of the overlapping corrugated sheet using a 3" side lap only (greater side laps are not to be employed) to permit the total width of the sheet to rest snugly on the purlin, to give maximum "net cover" of area per sheet, and to enhance the appearance of the roofing and walling when fixed in position.

**IMPORTANT:** New Deep Corrugated Sheets are unsuitable for use with or for repairing roofs covered with old pattern Deep Corrugated Sheets.



#### NOMINAL DIMENSIONS:

Width: 3' 4 3/4" (effective cover 3' 2 3/8")

Lengths: 4', 4' 6", 5', 5' 6", 6', 6' 6", 7', 7' 6", 8', 8' 6", 9', 9' 6" and 10'

**NOTE:** Three weeks' notice is required for delivery of sheets 4' 6", 5' 6", etc., long.

Pitch of Corrugations: 5.50"

Depth of Corrugations: 2"

Side Lap: 3"

Thickness of Sheet (average): 1/4"

Number of square yards per square (10' x 10') of Roofing: Approx. 13

Weight: Approx. 26 lbs. per square yard or 340 lbs. per square (10' x 10') of Roofing when fixed. Square yards per ton—88.

Wood Battens—if used: 3" x 1 1/2"

**PITCH AND END LAP:** For roof pitch exceeding 20°, where roofing is not exposed to severe climatic conditions, a minimum end lap of 6" may be used. For roofs between 20° and 15° pitch, the end lap must be increased and sealed to conform with our guarantee. Roofing pitched below 15° involves special precautions when fixing, including the sealing of all end laps with plastic asbestos-bitumen compound, as does roofing exposed to severe climatic conditions (driving winds, etc.).

**NOTE:** The use of corrugated "Durabestos" should be avoided where roofs are pitched below 10°.

**ROOF STRUCTURE:** Advice as to the suitability of roofing designs (timber or steel) will be freely given by our Technical Officers.

**SPACING OF PURLINS AND GIRTS:** As regulations vary, refer to us for details of correct spacing of purlins, sheet set-outs and the use of wire mesh. Purlins are arranged under each lap, with intermediate purlins or battens (3" x 1 1/2") equally spaced. Employ sheet lengths that involve a minimum number of purlins. True hips and valleys should retain the same sheet layout with purlins or battens maintained on the same horizontal line. Provide trimming members between purlins or battens at each side of hip ridging to support raking edges of sheets and hip capping, centring as for ridging.

**GUTTERS:** Place gutters in position before commencing the fixing of roofing sheets.

**FASTENING:** Drill all holes—do not punch—in the crown of corrugations only, approx. 3/2" diam. greater than that of the screw or bolt to be used—normally 3/2". One galvanised screw (or bolt), one galvanised and one bituminous (felt) washer comprise a set of "fixings." Secure the sheets at each purlin or batten through the 2nd and 6th corrugation crowns, using galvanised roofing screws as follows:—

3" x 14 gauge for single thickness of sheet.

3 1/2" x 14 gauge for double or triple thickness of sheet.

4" x 14 gauge for aprons of ridge and hip cappings, etc.

Average 5 sets of screws and washers to each sheet.

Seal between felt washer and sheet with plastic asbestos bitumen compound.

**NOTE:** Except when finishing at gable or hip, the underlap (low) corrugation should not be cut off.

Note: New Deep Corrugated "Durabestos" Available in Queensland Only

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# Fixing Instructions—New Deep Corrugated "Durabestos" Roofing

WUNDERLICH NEW DEEP CORRUGATED "DURABESTOS" SHEETS are fixed by the mitre (straight joint) method as shown by illustrations on this and the following page.

**"HAND" OF FIXING:** To determine the "hand" of fixing, stand at the gutter looking up the roof slope and refer to the following diagrams, which illustrate:



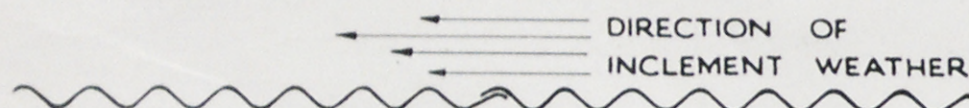
Briefly, when fixing "left to right" take sheets (smooth side up) with the low or underlap corrugation to the right and make mitre cuts as shown by sketch "A." When fixing "right to left," reverse the sheets (still with the smooth side up) so that the low or underlap corrugation is to be left, and make mitre cuts as shown by sketch "B."

**NOTE:** Accessories that are fluted for nesting into the corrugations of the sheets, such as fluted apron flashing, must be of the same "hand" as that adopted when fixing the sheets.

**GABLE AND HIP ROOFS:** When fixing corrugated "Durabestos" sheets to gable or hip roofs, fixing must be commenced from the same end of the building on both roof slopes, so that fluted ridge capping will fit correctly.

**MITRE CUTTING:** Corrugated "Durabestos" Sheets are supplied with all four corners square. Mitres are cut on the building site to suit the "hand" of fixing and end lap adopted. Before making mitre cuts it is necessary, therefore, to determine:

1. Whether the sheets are to be fixed "left to right" or "right to left." This decision is generally influenced by the direction of prevailing winds or inclement weather; the side lap should be fixed away from the weather thus:



2. New Deep Corrugated "Durabestos" Sheets are designed for a 3" side lap only (approximately half a corrugation) which ensures close weathertight nesting.
3. End lap—see recommendations on previous page, "PITCH & END LAP."

When the correct position or angle of the mitre cut has been determined, prepare a template of the mitre for use when marking off subsequent sheets to be cut. Use a suitable hand saw for cutting mitres.

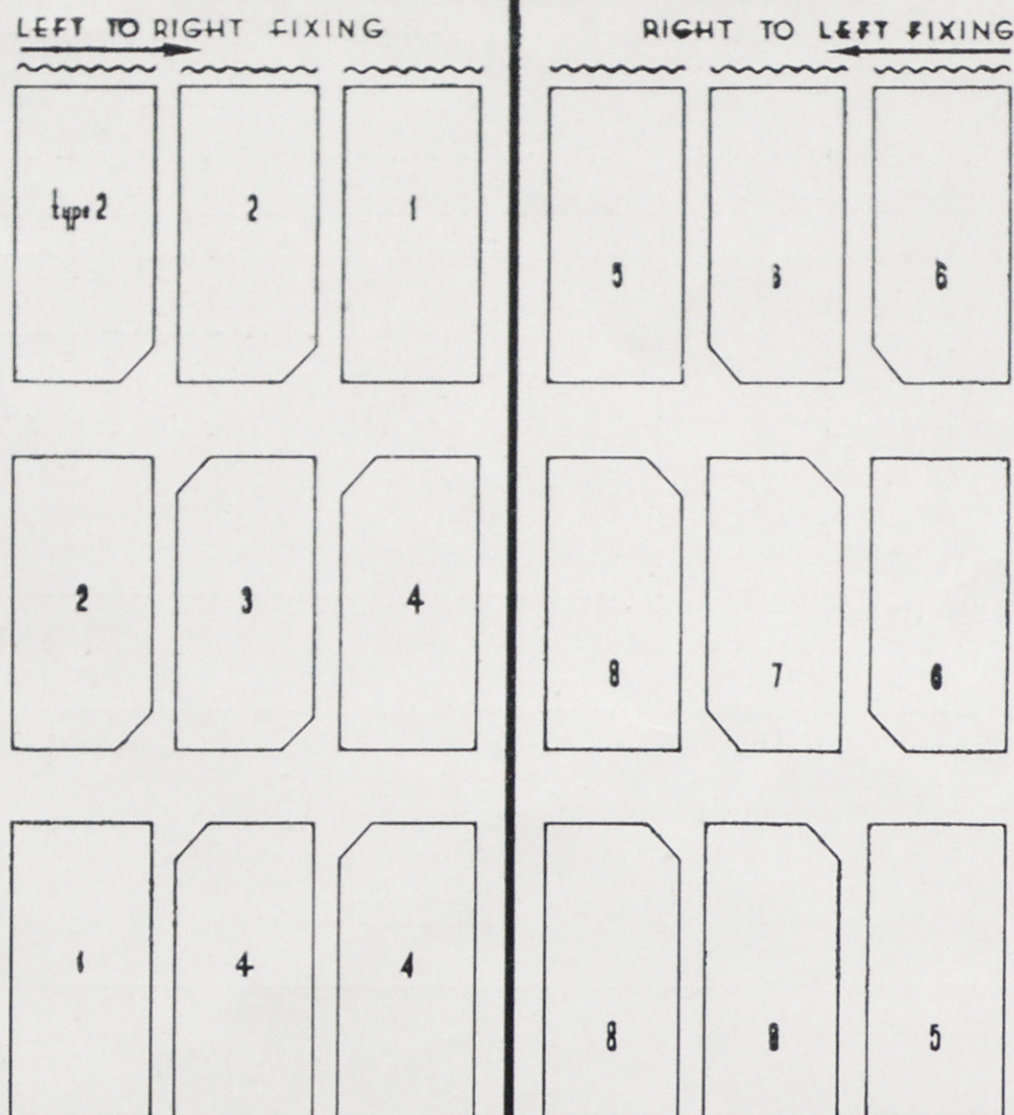
## MITRE CUTS—"LEFT TO RIGHT" FIXING—SKETCH "A":

- Type 1—All corners square.
- 2—Bottom right corner cut.
- 3—Top left and bottom right corners cut.
- 4—Top left corner cut.

## MITRE CUTS—"RIGHT TO LEFT" FIXING—SKETCH "B":

- Type 5—All corners square.
- 6—Bottom left corner cut.
- 7—Top right and bottom left corners cut.
- 8—Top right corner cut.

## TYPICAL MITRE CUTS



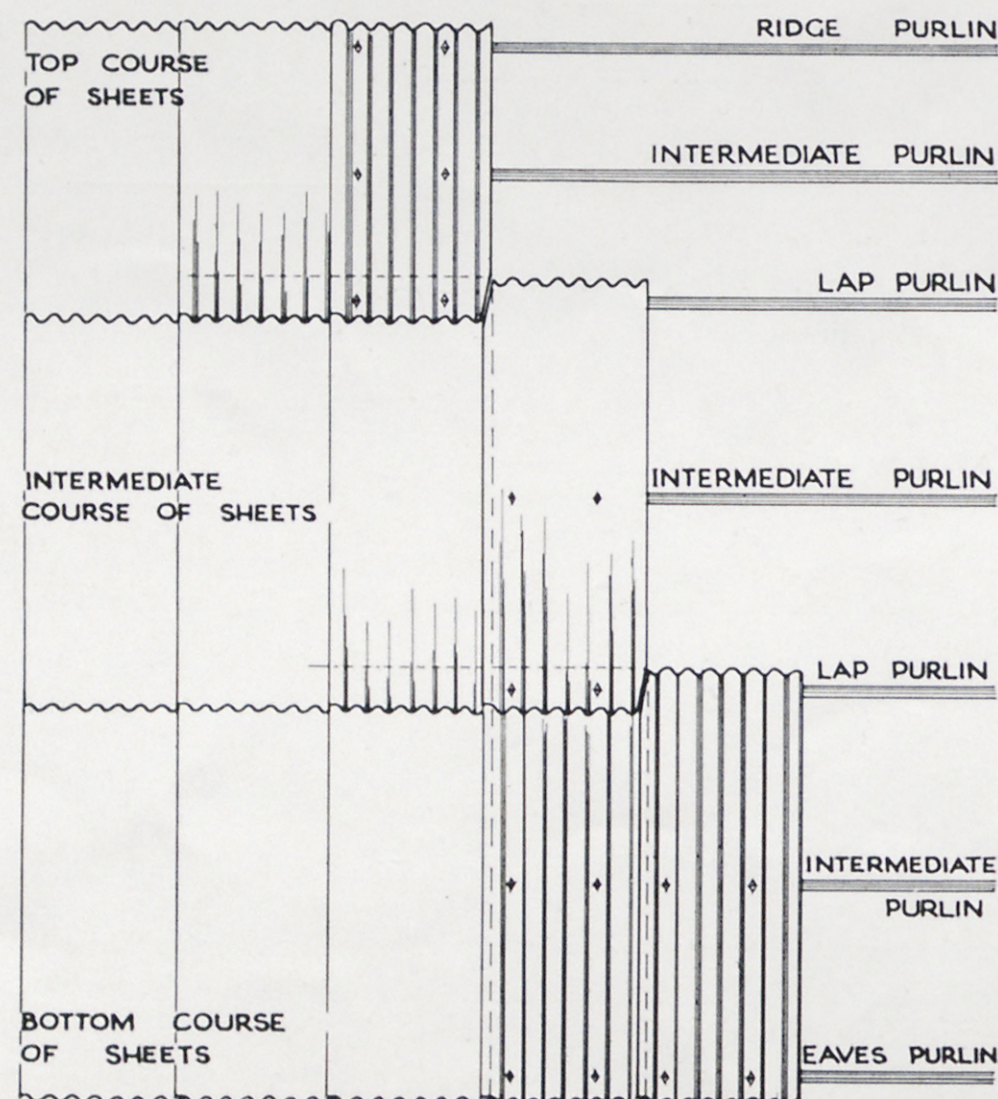
SKETCH "A"

Underlap or low corrugation at right edge of all sheets.

SKETCH "B"

Underlap or low corrugation at left edge of all sheets.

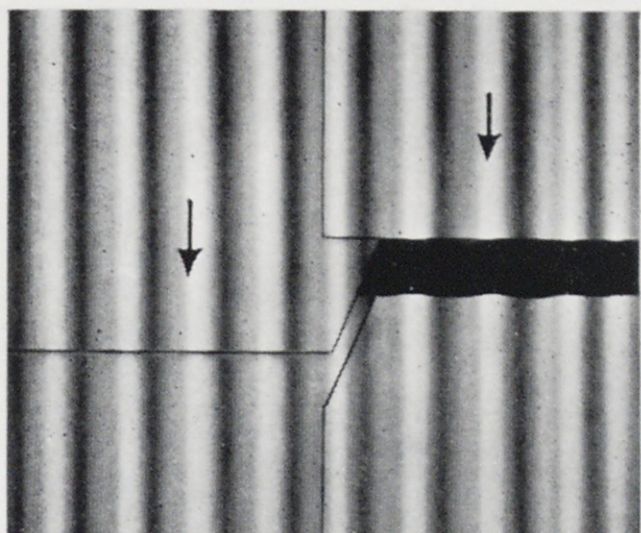
BELOW: Details showing set-out of roof purlin or batten members.  
NOTE: Sheets fixed "Left to Right."



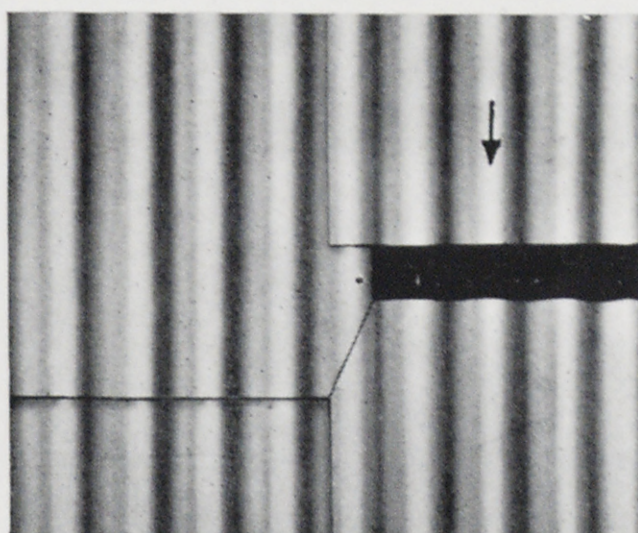


# Fixing Instructions— **New** Deep Corrugated "Durabestos" Roofing

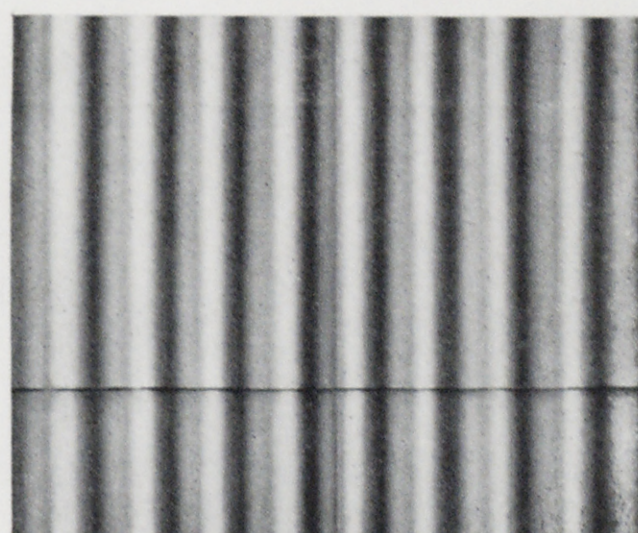
The illustrations below depict the mitre joint of NEW DEEP CORRUGATED "DURABESTOS" SHEETS (5.50" pitch) when fixed "LEFT TO RIGHT" hand.



(A) Showing sheets with mitres cut—the top left-hand sheet ready for sliding down to butt against the mitre of the lower right-hand sheet.



(B) Showing mitre of top left-hand sheet butted into position.

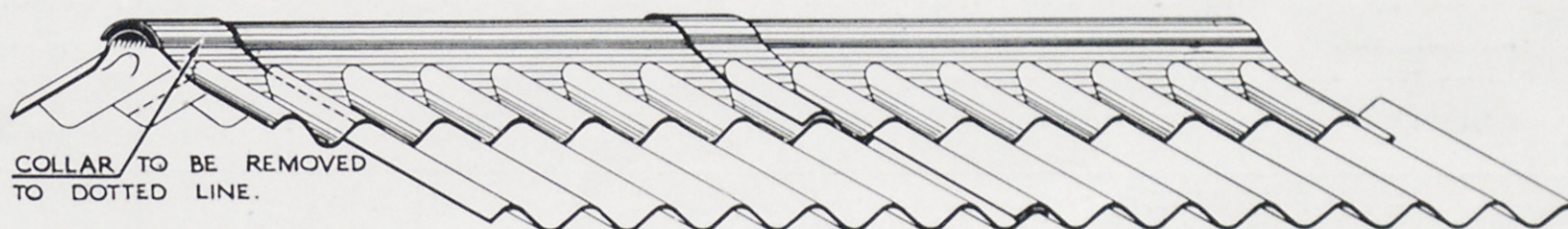


(C) Showing top right-hand sheet (overlapping mitre joint) in position.

## "Durabestos" Fluted Ridge Capping

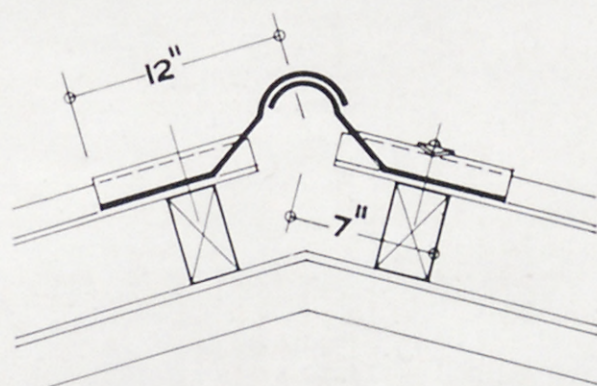
For use with New Deep Corrugated Sheets (5.50" pitch)

**No. D154**—"DURABESTOS" ADJUSTABLE ANGLE TWO-PIECE RIDGE CAPPING—FLUTED



COLLAR TO BE REMOVED  
TO DOTTED LINE.

Suitable for "Right to Left" or "Left to Right" fixing. The illustration above shows "Left to Right" fixing. When commencing fixing, it is necessary to cut off one full corrugation of the first length of ridge, as indicated by the dotted lines.



SECTION THROUGH RIDGING  
**No. D154**

Nominal thickness:  $\frac{3}{16}$ "  
Stock length:  $3' 6\frac{1}{2}"$

Stock size: 12" x 12"  
Effective cover:  $3' 2\frac{3}{16}"$

**NOTE:** When ordering, quote No. D154, give overall length of ridge, also particulars of any stop ends required. To ensure correct fitting of this ridge capping, it is essential that the fixing of the sheets to both roof slopes be commenced from the same end of the building. When fixing the ridge capping, use roofing screws of requisite length, screwed through the corrugated apron into the top purlin.

**NOTE:** Other fluted "Durabestos" accessories such as saw tooth ridge capping, apron flashing and gutter flashing, as illustrated in our catalogue D76, are available to suit New Deep Corrugated Sheets, in lengths of  $3' 6\frac{1}{2}"$  with an effective cover of  $3' 2\frac{3}{16}"$ . Eaves Bird-proofing is available in lengths of  $3' 2\frac{1}{16}"$ —effective cover  $3' 2\frac{1}{16}"$ —and is fixed with butt joints. Refer also to catalogue D76 for detail; of plain hip capping, side flashing, gutters, down pipes, etc.



# New Deep Corrugated "Durabestos" — Yardage and Side Cover Tabulations

## YARDAGE READY RECKONER

No. OF SHEETS	AREA (IN SQUARE YARDS) OF NEW DEEP CORRUGATED "DURABESTOS" SHEETS (Calculated to two decimal points only, and furnished as an approximate guide to users)										
	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	8' 6"	9' 0"	9' 6"	10' 0"
1	1.89	2.08	2.26	2.45	2.64	2.83	3.02	3.21	3.40	3.59	3.77
2	3.77	4.15	4.53	4.91	5.28	5.66	6.04	6.41	6.79	7.17	7.55
3	5.66	6.23	6.79	7.36	7.92	8.49	9.06	9.62	10.19	10.75	11.32
4	7.55	8.30	9.06	9.81	10.56	11.32	12.07	12.83	13.58	14.34	15.09
5	9.43	10.38	11.32	12.26	13.21	14.15	15.09	16.04	16.98	17.92	18.87
6	11.32	12.45	13.58	14.72	15.85	16.98	18.11	19.24	20.37	21.51	22.64
7	13.21	14.53	15.85	17.17	18.49	19.81	21.13	22.45	23.77	25.09	26.41
8	15.09	16.60	18.11	19.62	21.13	22.64	24.15	25.66	27.17	28.68	30.19
9	16.98	18.68	20.37	22.07	23.77	25.47	27.17	28.86	30.56	32.26	33.96
10	18.87	20.75	22.64	24.53	26.41	28.30	30.19	32.07	33.96	35.84	37.73
20	37.73	41.50	45.28	49.05	52.82	56.60	60.37	64.14	67.92	71.69	75.46
30	56.60	62.26	67.92	73.58	79.24	84.90	90.56	96.22	101.87	107.53	113.19
40	75.46	83.01	90.56	98.10	105.65	113.19	120.74	128.29	135.83	143.38	150.93
50	94.33	103.76	113.19	122.63	132.06	141.49	150.93	160.36	169.79	179.22	188.66
60	113.19	124.51	135.83	147.15	158.47	169.79	181.11	192.43	203.75	215.07	226.39
70	132.06	145.26	158.47	171.68	184.88	198.09	211.30	224.50	237.71	250.91	264.12
80	150.93	166.02	181.11	196.20	211.30	226.39	241.48	256.57	271.67	286.76	301.85
90	169.79	186.77	203.75	220.73	237.71	254.69	271.67	288.65	305.62	322.60	339.58
100	188.66	207.52	226.39	245.25	264.12	282.99	301.85	320.72	339.58	358.45	377.31
Sheets per ton (Approx.)	46	42	39	36	33	31	29	27	26	24	23

## SIDE COVER TABULATION

### EFFECTIVE SIDE COVER — NEW DEEP CORRUGATED "DURABESTOS" SHEETS

The following Tabulation shows the number of sheets necessary to cover one course of a specific length of roof or wall when sheets are fixed in accordance with recommended 3" side lap practice.

NEW DEEP CORRUGATED (5.50" Pitch)		NEW DEEP CORRUGATED (5.50" Pitch)		NEW DEEP CORRUGATED (5.50" Pitch)		NEW DEEP CORRUGATED (5.50" Pitch)		NEW DEEP CORRUGATED (5.50" Pitch)	
No. OF SHEETS	FIXING 3" SIDE LAP	No. OF SHEETS	FIXING 3" SIDE LAP	No. OF SHEETS	FIXING 3" SIDE LAP	No. OF SHEETS	FIXING 3" SIDE LAP	No. OF SHEETS	FIXING 3" SIDE LAP
1	3' 4 $\frac{3}{4}$ "	11	35' 2 $\frac{1}{2}$ "	21	67' 0 $\frac{1}{4}$ "	31	98' 10"	41	130' 7 $\frac{1}{2}$ "
2	6' 7"	12	38' 4 $\frac{1}{2}$ "	22	70' 2 $\frac{1}{4}$ "	32	102' 0"	42	133' 9 $\frac{3}{4}$ "
3	9' 9"	13	41' 6 $\frac{3}{4}$ "	23	73' 4 $\frac{1}{2}$ "	33	105' 2 $\frac{1}{4}$ "	43	136' 11 $\frac{3}{4}$ "
4	12' 11 $\frac{1}{4}$ "	14	44' 9"	24	76' 6 $\frac{3}{4}$ "	34	108' 4 $\frac{1}{4}$ "	44	140' 2"
5	16' 1 $\frac{1}{2}$ "	15	47' 11 $\frac{1}{4}$ "	25	79' 8 $\frac{3}{4}$ "	35	111' 6 $\frac{1}{2}$ "	45	143' 4 $\frac{1}{4}$ "
6	19' 3 $\frac{1}{2}$ "	16	51' 1 $\frac{1}{4}$ "	26	82' 11"	36	114' 8 $\frac{3}{4}$ "	46	146' 6 $\frac{1}{2}$ "
7	22' 5 $\frac{3}{4}$ "	17	54' 3 $\frac{1}{2}$ "	27	86' 1 $\frac{1}{4}$ "	37	117' 10 $\frac{3}{4}$ "	47	149' 8 $\frac{1}{2}$ "
8	25' 8"	18	57' 5 $\frac{1}{2}$ "	28	89' 3 $\frac{1}{4}$ "	38	121' 1"	48	152' 10 $\frac{3}{4}$ "
9	28' 10"	19	60' 7 $\frac{3}{4}$ "	29	92' 5 $\frac{1}{2}$ "	39	124' 3 $\frac{1}{4}$ "	49	156' 1"
10	32' 0 $\frac{1}{4}$ "	20	63' 10"	30	95' 7 $\frac{3}{4}$ "	40	127' 5 $\frac{1}{2}$ "	50	159' 3"

**NEW DEEP CORRUGATED "DURABESTOS" IS MANUFACTURED ONLY BY**

*Wunderlich Limited*

MANUFACTURERS OF BUILDING MATERIALS

**108-110 BRUNSWICK STREET, VALLEY, BRISBANE, Q'LD.**

Available also from distributors throughout Queensland