DESIGN DATA

SPEED DECK (mark III)

SPAN DESIGN DATA

GENERAL NOTES

INTRODUCTION

The span design data information listed hereunder has been compiled from tests carried out in accordance with:—

AS 1562 — 1973
Design and Installation of Self-Supporting
Metal Roofing without transverse laps.

Span Recommendation Graphs (refer Drawing Nos M-108-1&2) indicate **ULTIMATE LOAD TESTS** for reference information only — The **SAFE WORKING LOADS** are clearly indicated for 'quick reference' span design purposes.

TESTING AUTHORITY

Technisearch Limited, Melbourne, Victoria.

TEST DATA

1. **Resistance to Concentrated Forces and Resistance to Wind Forces.**
(Complying with AS 1562 — 1973)
Refer Test Report No. — 5.542A) covering 5.542B) 0.77 mm 5.542C) and 5-542D) covering 5-542E) 0.62 mm 5-542F)

2. **Fatigue Test Reports**
Fatigue test reports carried out to comply with CLAUSE 39.7(C)—

N.T. BUILDING MANUAL

whereby the fixings and the sheeting shall be proof tested to ensure they will not fail upon the application of 1,000 cycles of working load from zero to maximum at a rate of three Hertz, followed by a static load test of 1.8 times the working load

Test Report dated 25th MARCH 1975
covering — 0.77 mm
and
Test Report dated 21ST SEPTEMBER 1976
covering —0.62 mm

to comply with Darwin Area Building Manual (May Ed. 1975)

DESIGN PARAMETERS

The MAXIMUM ALLOWABLE SPANS — set out on TABLES 1 and 2 on SHEET NO M-109-3 have been based on the following:—

i Mean return period of 50 years.
ii Basic Design Wind Velocity of 55 m/s (meters per second)
iii Cyclonic Area multiplier of 1.15
iv Terrain and Height Categories — covering relevant velocity multipliers of not less than 0.73 and building heights of up to 5 and 10 metres.
v **Pressure Drag and Force Coefficients**
The Coefficients selected shall be deemed to be extremes of wind loadings on the wall and roof surfaces of structures covering both External Suction at —0.9 and External Pressure of +0.8.

RECOMMENDED FASTENERS FOR CLIP FIXING

Speed Deck (Mark III) Fixing Clips shall be fixed with **2 fastenings per each clip** through the holes provided (Refer to "Product Identification" Drawing No. M-109-1)

(a) **FIXING TO LIGHT GAUGE STEEL UP TO 4.5mm THICK**
Use a "DEUTSHER TEK" — **Self Drill — Self Tapping Screw.**
(Recommended minimum material thickness 1·55mm).
SCREW SIZE — No. 10
THREADS PER INCH — 24
SCREW LENGHT — 16 mm
HEAD STYLE — WAFER — CROSS RECESS
Refer Technisearch reports No. HS 77-2 Dated 16/2/77 and No. HS 77-3 dated 18/2/77

(b) **FIXING TO STEEL OVER 4.5mm**
Use a "DEUTSHER TYPE 23" — **Thread Cutting Screw**
SCREW SIZE — No. 10
THREADS PER INCH — 24
SCREW LENGTH — 16mm
HEAD STYLE — WAFER — CROSS RECESS
DRILL SIZE — 4.2mm or 5/32"

(c) **FIXING TO TIMBER** of Group Strengths up to S5
Use a "DEUTSHER TYPE 17" — **Self Drilling Wood Screw**
4 Fastenings per clip to be used at all times when fixing to timber
SCREW SIZE — No. 10
THREADS PER INCH — 12
SCREW LENGTH — 25mm
HEAD STYLE — WAFER — CROSS RECESS

MANUF'S NAME **Stramit Industries Limited**

ADDRESS **96 Franklin Street Melbourne 3000**

PHONE No **329 7611**

CERTIFIED [signature] M I E AUST

DATE 20/2/1977

FIXING OF

STRAMIT "SPEED DECK" ROOFING

IN THE DARWIN AREA

DESIGN DATA SHEET

NORTHERN TERRITORY CYCLONIC AREAS

Accptd [signature] Date 4/6/78

DRAWING No. M/109/2