

2 (Nov 1976)

DEPARTMENT OF PARKS AND WILDLIFE

1976

umber



## 1. GENERAL

Sawn *WAPINE* is produced for house framing and other structural purposes as an "engineered product", i.e. it is available in a number of appropriate strength grades—seasoned, gauged to accurate dimension, graded and branded. Its presentation, stability, lightness and, ease of working enable significant savings in labour costs of erection.

While initial availability is limited, steadily increasing quantities will reach the market until *WAPINE* becomes a substantial component of the state's structural timber supply.

Pine is in extensive use for house framing in other states, where it is an amply proven product supported by the policies and facilities of the Radiata Pine Association of Australia (R.P.A.A.).

## 2. GRADES, PROPERTIES, BRANDS, ETC.

The structural use of *WAPINE* is governed by codes of the Standards Association of Australia (S.A.A.), viz.:

AS 1684—1975—Light Timber Framing Code.

AS CA65—1975—Timber Engineering Code.

Commonly used structural grades include four all-purpose stress grades:

F5 (Standard Building)

F7 (Select Building)

F8 (Standard Engineering)

F11 (Select Engineering)

Detailed specifications for these grades, together with appropriate span tables and photographic definition of wood characteristics are available in the "1974 R.P.A.A. Grading Rules for Pine Timber" (obtainable Forests Department).

Stud Grades are included under F5, and other structural products covered by R.P.A.A. specifications include T. & G. roof and ceiling decking and Sawtex cladding.

Engineering and Building Grades may be either visually or mechanically stress graded.

In either case a face of each piece is marked at intervals in black with the producer's name or brand, the R.P.A.A. identifying mark, the authorised number of the producing mill, the stress grade and the Australian Standard specification number as per illustration:

**RPAA** **23**  
**F7** SEASONED  
AS 1490  
**W. A. PINE**

The relevant S.A.A. standards are as follows:

1. AS 1489-1973. Sawn Boards from Radiata Pine. (Appearance grades—standard, select, joinery, clear.)
2. AS 1490-1973. Visually Stress Graded Radiata Pine for Structural Purposes.
3. AS 1492 to 1498-1973. Milled Products from Radiata Pine (flooring, panelling, mouldings, etc.).

## 3. DIMENSIONS

Available lengths range from 1.8 m to 6.0 m in 0.3 m rises. Pieces are square docked with plus tolerance 75 mm, minus tolerance nil.

Available widths and thicknesses, seasoned and "dressed all round" (D.A.R., called or finished size) are as shown in the "Preferred Size Chart for *WAPINE*" below. (Note: Availability in some sizes is limited.)



**CALLED SIZE IS DRY  
DRESSED ALL ROUND (D.A.R.) SIZE**

Millimetres										
GREEN OFF SAW			50	81	100	131	153	181	206	259
DRY SAWN			48	76	96	126	146	176	196	246
D.A.R.			42	70	90	120	140	170	190	240
16	15	12			X	X	X	X	X	
26	24	19	X	X	X	X	X	X	X	X
38	35	30	X	X	X	X	X	X	X	
44	40	35		X	X		X	X		
53	50	45		X	X	X	X		X	
81	75	70		X	X					
100	95	90		X	X					

Preferred dimensions—X

Preferred lengths—metres									
1·8	2·1	2·4	2·7	3·0	3·6	4·2	4·8	5·4	6·0

#### 4. PRESERVATIVE TREATMENT

In a sub-floor situation, where ventilation is sometimes inadequate, chemical pressure treatment of pine joists and bearers is recommended.

Detail of preservation treatments is covered by Information Sheet No. 3 issued by this Department.

Treatment of framing above floor level has proved to be unnecessary. Treatment is costly in terms of time as well as money, and in other states, where houses have been framed in pine for many years, the standard practice is to use untreated pine. In South Australia, for instance, where decay and termite hazards are very similar to ours this practice is accepted by all lending authorities and by the Australian Housing Corporation and the South Australian Housing Trust.

Appropriate safeguards are provided in the Uniform Building By-Laws, 1974, adopted in Western Australia—i.e., under Group VII, Part 48:

#### Termite Protection

AS CA43—Code for Soil Treatment Against Termites, or

AS CA50—Code for Physical Barriers (ant capping, etc.).

## 5. MARKETING

WAPINE is available from established timber merchants to whom the Forests Department supplies on a wholesale basis. The Department is not in the retail trade, and does not supply direct to builders or manufacturers.

## 6. FURTHER INFORMATION

All timber merchant suppliers are able to provide further information— as well as:

Timber Advisory Service  
Forest Products Association (W.A.)  
103 Colin Street, West Perth.  
Telephone 22 2088

and

Forests Department  
Marketing Branch  
Barrack Street  
Perth, W.A. 6000.  
Telephone 25 8077.