

CYCLONE TESTING STATION

THE STRENGTH OF BATTEN-TO-RAFTER JOINTS

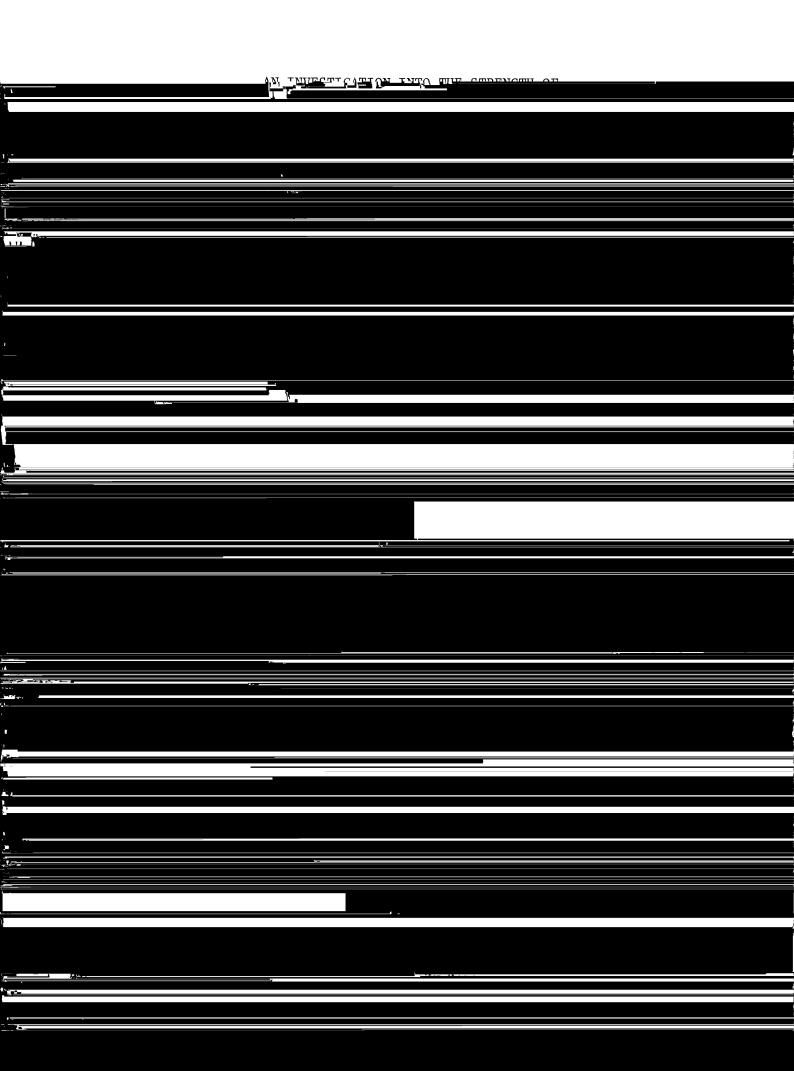
Part 2

Recommendations for High Wind Areas

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TECHNICAL REPORT NO. 3

Department of Civil & Systems Engineering,



available on the likely performance of the fastener.

For convenience each type of fastener has been given a symbol which is used in the tables presented later in this document. It is stressed that recommendations are made for a fastener unit which usually consists

COST OF MAKING JOINTS

REFERENCES.

1. REARDON, G.F. (1979) "The Strength of Batten-to-Rafter Joints Part 1. Test Results and Derivation of Design Loads." Cyclone Testing Station, Technical Report No. 2.

3. HOLMES, J.D. and MUNARIN, J.L. "Wind Loads on Logan Unit:
Belvedere", James Cook University Wind Engineering Report 1/79.

Design Load (kN) Fastener symbol Type of Fastener T.,

Wind Intensity W33 (sheltered locations in suburbs - non-cyclone)

TABLE 2(b)

Fasteners needed to secure battens to rafters within 1200 of edges of roof

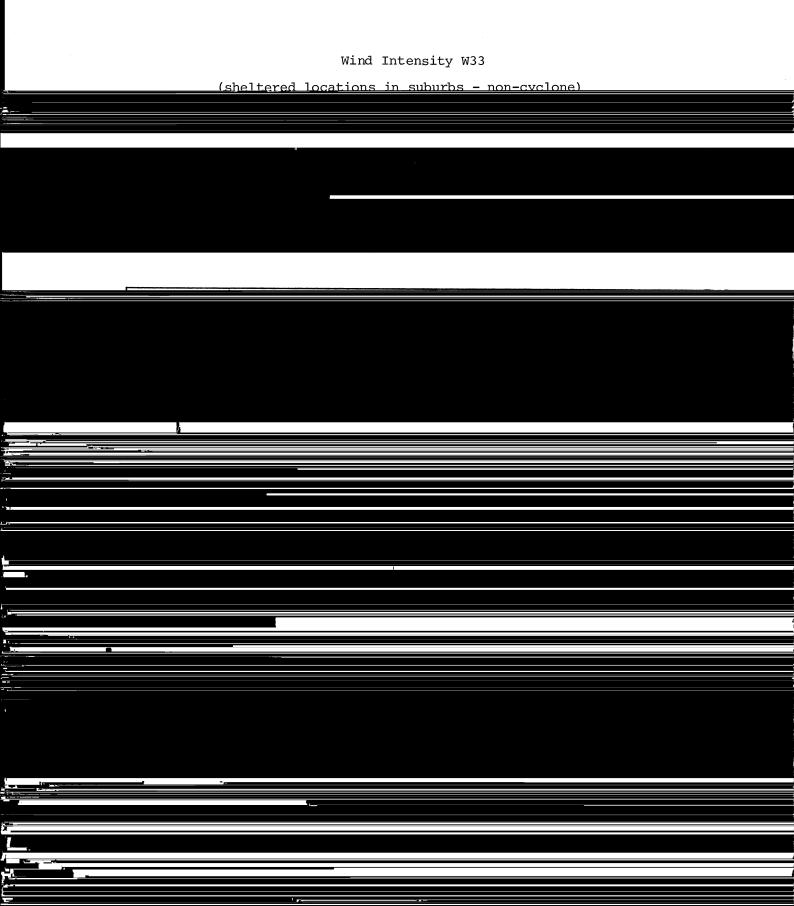


TABLE 3(a)

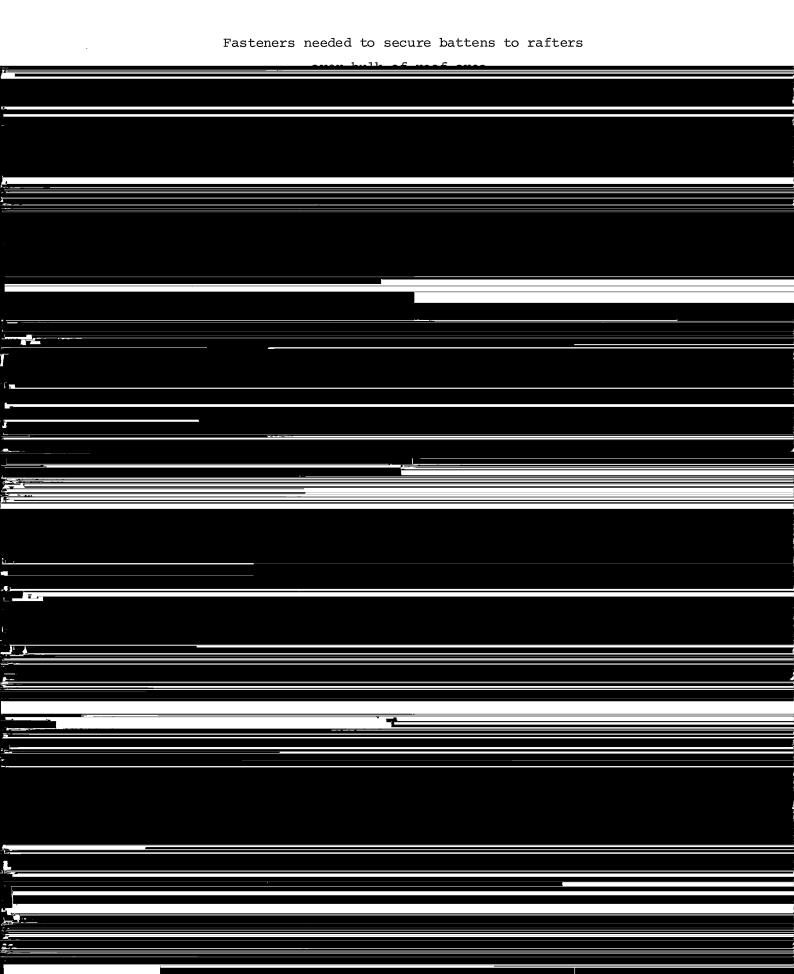


TABLE 3(b)

Fasteners needed to secure battens to rafters

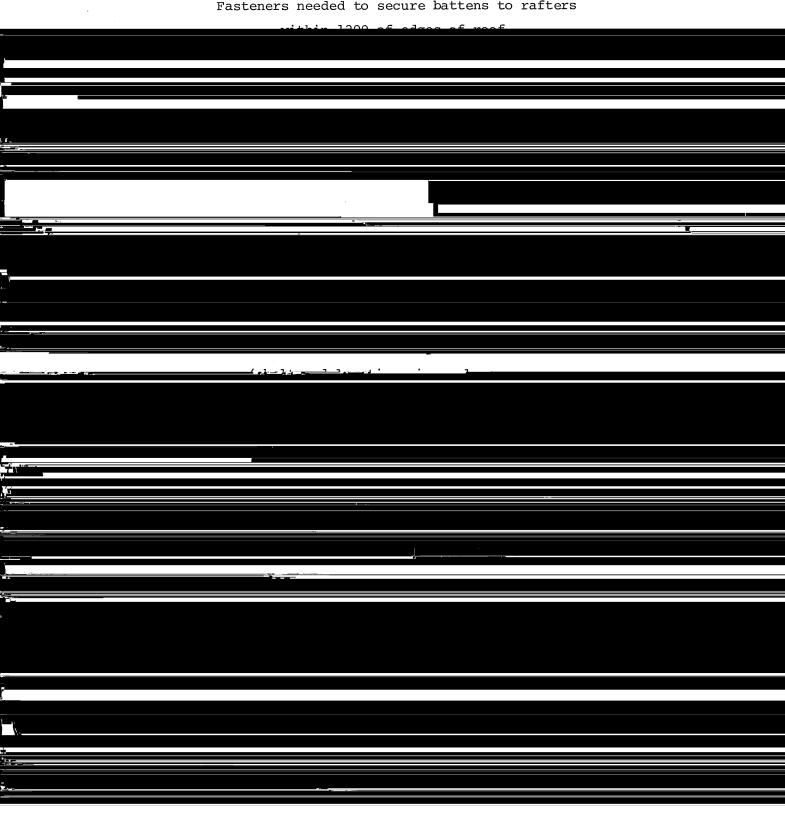


TABLE 4(a)

Fasteners needed to secure battens to rafters over bulk of roof area

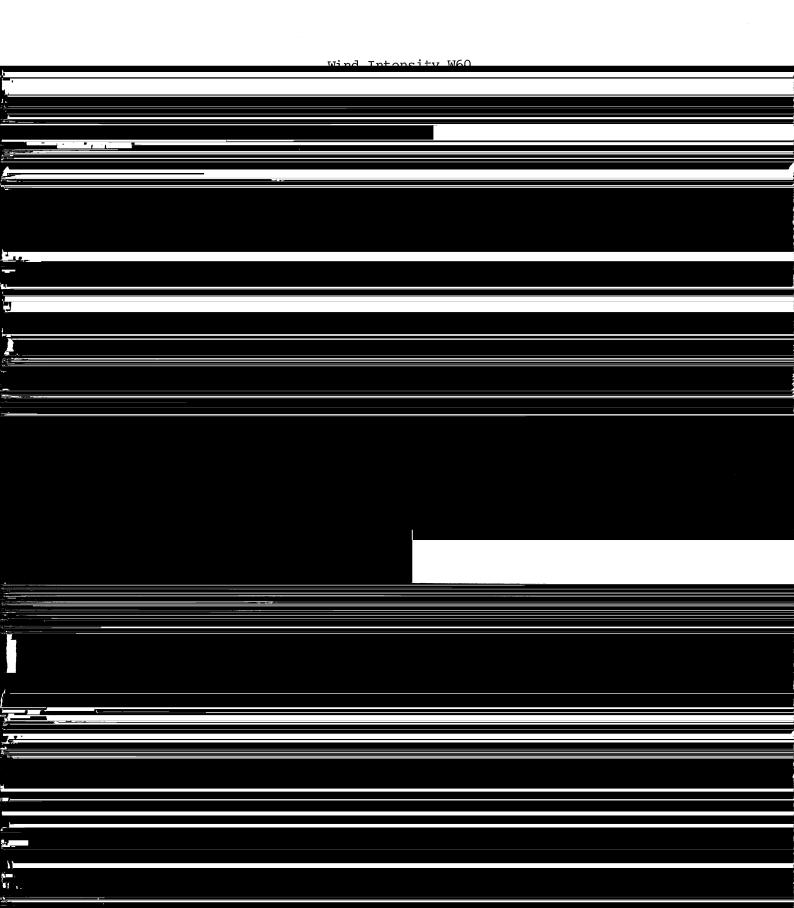
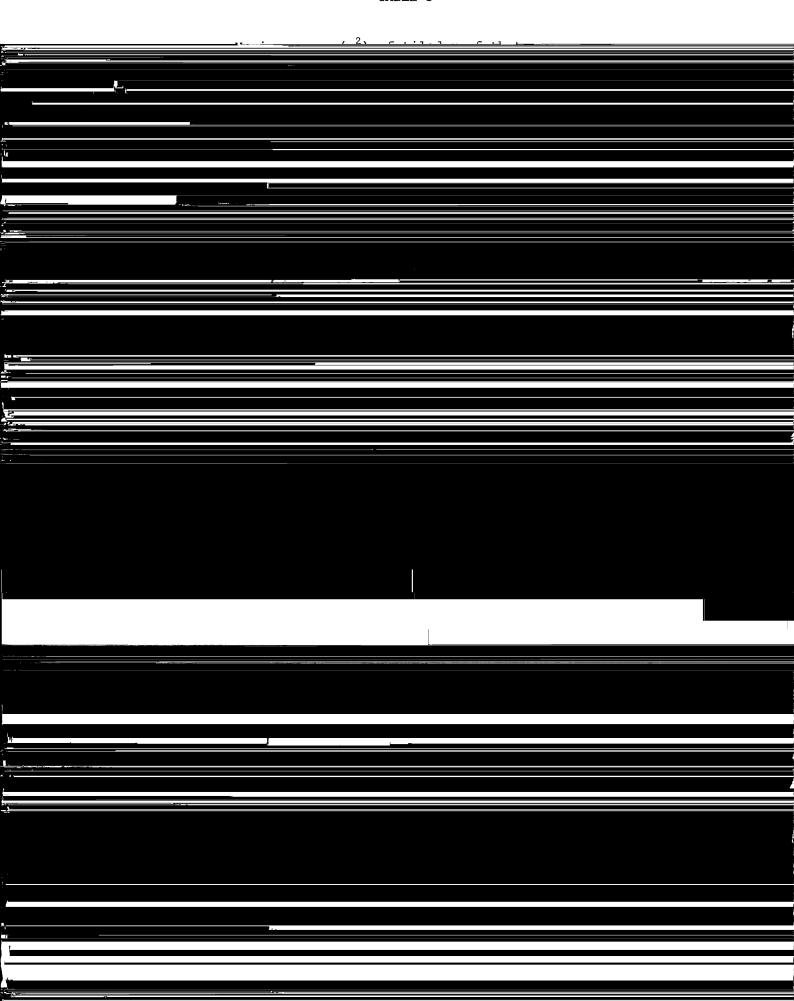




TABLE 5



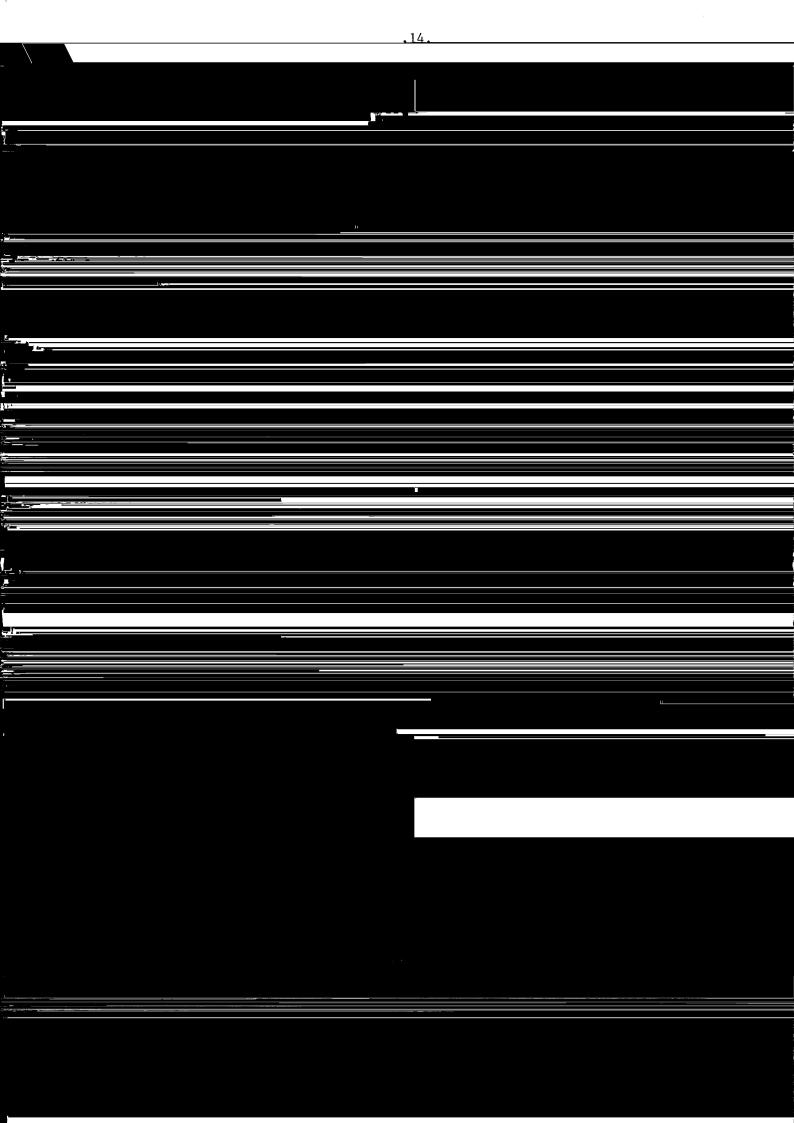


TABLE 7

Comparative costs of the fasteners recommended

.18 Α

