



14<sup>th</sup> October 2002

Concrib Pty Ltd  
601 Boundary Rd.,  
Richlands, Qld 4077  
Attn: Mr. Martin Silec

Dear Sir,

**Re: Durability of Concrib Crib Units.**

The durability requirements of Standards Australia - Concrete Structures Code AS3600-2001 apply to reinforced concrete members with a design life of 40 to 60 years (refer clause 4.1).

Table 4.10.3.4 of the code requires 25mm concrete cover to reinforcement to achieve a B2 exposure classification when the concrete has a characteristic strength of 50MPa when rigid formwork and intense compaction are used. When standard formwork and compaction are used, Table 4.10.3.2 indicates that the same concrete grade and cover is suitable for a B1 exposure classification.

Exposure classifications are defined in Table 4.3 as: Classification B2 - Above ground exterior environment, Coastal (Up to 1km from coastline but excluding tidal and splash zones); or Permanently submerged in sea-water. Classification B1- Above ground exterior environment, Near coastal (1km to 50km from the coastline); or In fresh water. Exposure classifications A1 or A2 apply to surfaces of members in contact with the ground, excluding aggressive soils. Aggressive soils are defined in Note 2 to the table. The cover and/or concrete grade requirements for A1 or A2 are less than B1 and B2 exposure classifications.

The Concrib concrete specification for the manufacture of the crib units is a concrete strength grade of 50MPa and a minimum cover to reinforcement of 25mm. The units are cast in rigid steel forms and the concrete is compacted by placing the form on a vibrating table. Intense compaction of the Concrib crib units should be achieved.

Intensely vibrated Concrib crib units manufactured with 50MPa concrete and 25mm cover would satisfy the durability requirements of AS3600 for members in contact with the ground and above ground, excluding tidal and splash zones and aggressive soils.

Regards



Dr Peter Mullins  
Director

**CIVIL STRUCTURAL ENGINEERING CONSULTANTS**

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