STUDY OF STEEL ROOF AND WALL-CLIDING SHEET METALS AND COMPUTER-AIDED DRAFTING

FINAL YEAR DIPLOMA PROJECT EN 13

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1.1 VARIETY OF CHOICES

Roofing have played an important part in the process of making buildings nowadays. Roof are designed with specifications to suit buildings, its' comfortness and it is designed specially with uniqueness to satisfy customers. Yet, the roof most important role is to give protection to buildings.

Roofing materials is usually made from different varieties of metals such as Steels, Aluminium and Zinc which some are being coated by different materials to improve its' condition and longlastivity.

Here are some of the examples of different kind of roof made by different manufacturers all around the world.

1.11 HUMESLATE ROOF

HUMESLATE is manufactured from a mixture of Fibre reinforce cement and Silika, a non-combustable mate-
rial which will not rot or decay. Their ease of fixing and light weight with versatality have made HUMESLATE the most effective roofing and cladding material. It is suitable for the most intricate of roof shapes and with an appearence similar to natural slates.

1.12 RESIDEK ROOF

RESIDEK roof is a prefabricated membrane composed of elastomeric modified bitumen with polypropylene, strongly reinforced with:

a) Glass fibre at a weathering surface

b) Inside, a non-woven high strength polyester core

The top weathering surface is recognized by the longitudinal reinforcement of the glass fibre mat.

A model of the RESIDEK roof is shown behind.

1.13 DECRA BOND ROOF

DECRA BOND roof are basically made by two base which is the Galvanised steel and coating.
a) Galvanized steel

Base steel - Thickness: 0.40 mm
Grade: 96250

Zinc coating - Weight: 300 g/m
Grade: ZM 300 Phosphate Coat

b) Coating specifications

Primer - Both sides of the galvanized steel is treated with a phosphate conversion coating followed by the application of an impervious epoxy primer incorporating a corrosion inhibiting compound.

Seal Coat - Following the primer application, the underside of the titles is sealed with a polyester seal coat for enhanced corrosion resistance.

Base coat - A tough, opaque coating, based on a 100% acrylin resin containing additives toxic to biological growths such as algae and lichen.