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 elastometric modified bitumen with polypropylene , strongly re inforced 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 longi-tudanal reinforcement of the glass fibre mat .

A model of the RESIDEK roof is shown behind .

1.13 DECRA BOND ROOF

DECRA BOND roof are basicly 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 enchanced corrosion resistance

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