

Colour Coated Decorative Roofing Sheets

With aesthetics and daylight solution both playing important roles in building construction, decorative color coated roofing sheets have been gaining popularity as roofing solution for all sorts of buildings, especially in urban and industrial areas. These sheets can not only be used in large industrial or commercial buildings as daylight facilitator but also are being used in many residential buildings as alternatives to the conventional galvanized iron (GI) sheets or similar products, primarily for aesthical reasons.

Colour coated roofing sheets are commonly available in three forms – corrugated, troughed and tiled. They usually come with self drilling and self tapping screws with compatible washers. These sheets can be of metallic as well as non-metallic varieties. Metallic ones are usually galvnised steel sheets that have colour coats on both surfaces. The base material can be hot dipped galvanised steel and the steel can be either hot rolled or cold rolled. These high tensile strength structural steel sheets are initially coated with alloys of metals like Zinc or Aluminium. Thereafter, both sides of the sheets are given surface treatments with pigmented coats.

The colour coating usually consists of two coats, the base coat and the top coat. Colour coatings of various types and thicknesses may be applied in order to suit different requirements or applications. A typical example of a base or bottom coat is a 6 micron thick epoxy primer coat and an example of top or the finish coat is a 20 micron thick polyester coat. While the thickness of the base coat can be as high as 18 to 20 micron that of the top coat can be upto 50 microns or so.

Some commonly used paints for colouring roofing sheets for various applications are: Silicone Modified Polyesters (SMP), Poly Vinylidene Flouride (PVDF), Regular Modified Polyesters (RMP) etc.

Besides industrial, commercial or residential buildings, these roofing sheets can also be quite suitable for hotels and resorts, farmhouses, airport hangers, clubhouses, sports complexes and so on for enhancing the overall appearance of the structures.

Non-metallic colour coated roofing sheets are usually plastic sheets. A good example of this variety is polycarbonate roofing sheets which are often UV coated on both sides. These thermoplastic sheets are regarded as superior to fibreglass and are said to be 250 times stronger than ordinary glass. Besides being transperent, they are lightweight and thus easy to install. Coloured Polycarbonate sheets are widely used for north-light glazing, industrial skylights, greenhouses, patios, multiplexes, shopping malls etc. in order to provide daylight solutions besides adding to their aesthetics.

Some of the advantages of colour coated roofing sheets are:

They are aesthetically pleasing. Wide varieties of colours are available which can be chosen based on personal tastes.

Transparent colour coated roofing sheets like polycarbonate sheets are excellent options for providing daylight solution.

Besides being high strength roofing materials, they are more durable, all-weather friendly, corrosion resistant, thermally efficient and sleek, thanks to the highly protective colour coats which not just enhances the appearance.

Often manufactures give warranties against colour fading, corrosion, peeling of coats etc. In fact, that should be insisted as these are some of the important factors in choosing these sheets over others.

Many of these sheets are considerably lightweight and hence easy to install.

They come in many sizes, forms or thicknesses. Many of the colour coated roofing sheets can also be ordered in customised sections and thicknesses which makes them convenient as well.

Many of these colour coated sheets can be used for decorative walling purposes also.

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