



# *DECORATIVE PANELS*

FEBA PAUL

ROLL NO : 31

CSE A



***Definition:*** a decorative panel is single piece of material, usually flat and cut into a rectangular shape, that serves as the visible and exposed covering for walls, doors etc.



# ***Types of decorative panels based on material used***

## **1. Panels made of natural wood:**

- Most often made of oak ,cedar, maple or alder
- It is ideal for housings ,primarily due to it 's environmental friendliness
- When installing such panels in rooms with high humidity (bathroom or kitchen),they should be chosen with a waxy coating panel , repelling water and dirt

## **2. Chipboard panels:**

The manufacturing process is based on the method of hot pressing of chips and sawdust. It is similar to wood, but less strong since it is subjected to temperature drops and high level of humidity, and therefore only suitable for the finishing of dry areas



### **3.Vinyl Gypsum Panels:**

- This material has overgrown the well-known gypsum board today. It is mostly used to build walls, partitions, and even ceilings.
- The new material is the same drywall with the only difference that it is covered with vinyl instead of cardboard.
- Panels are endowed with the finished working surface with a certain pattern, and they are quite durable and reliable.

### **Gypsum board:**

- It is used as interior wall surface because of ease of installation.
- It is porous, soft and lightweight, and can be cut by a utility knife and nailed to a structure. Gypsum provides fire protection
- Gypsum per se, made of  $\text{CaSO}_4$  and crystal water, is a non-combustible substance.

#### **4.PVC Panels:**

- The plastic panels are also new material made of a rigid polyvinyl chloride with a minimum amount of plasticizer.
- The panels can be safely used for almost any room, even in the shower, because they have a number of advantages: water resistance, fire-resistance, they are hygienic, long-life.
- Properties:
  - 1.Environmental friendliness
  - 2.Fire resistance
  - 3.Moisture resistance

#### **5.MDF(Medium Density Fireboard)Panels:**

- A comparatively new material, based on MDF boards by using dry pressing (press the fine wood shavings) at high temperature and pressure.
- The wood release lignin during heating. It serves as a connecting element.
- The material can withstand sufficient load (hanging lockers and shelves), and is resistant to moisture, has heat and sound insulation.
- It is hygienic, durable, in other words, it is rather qualitative
- Moreover, there are even fire-resistantMDF types





**Natural wood panels**



**Chipboard panels**



**Vinyl Gypsum Panels**



**PVC Panels**



**MDF Panels**



**Gypsum board**

# *ADVANTAGES OF DECORATIVE PANELS*

- When used as finishing material, it is possible to avoid such preliminary issues as the alignment of the walls ,as well as removing old plaster, wallpaper, and paint , ie pre-finishing of the walls.
- They do not need special care. The only thing needed is to wipe them once in a while with any detergent or just a damp cloth.
- Damaged components can be easily replaced if necessary.
- Usually they have a long life
- They are durable, hygienic, and resistant to mechanical stress
- All this will eliminate the need for annual cosmetic repairs



A bright, modern dining room with a table set for a meal, a large potted plant, and open windows looking out onto a garden. The room features light-colored walls, wooden floors, and a large potted plant. A table with a patterned tablecloth is set with bowls and plates. Two windows are open, showing a view of a garden with trees and flowers. A black pendant light hangs over the table, and a white pendant light hangs over the plant. The text "Thank You" is overlaid in the center.

***Thank You***