

Subject: Building Construction and Technology-V

Topic: Walls, Ceiling and floors

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Types of Ceilings

- Coffered
- Barrel Vault
- Coved
- Tray
- Exposed
- Suspended

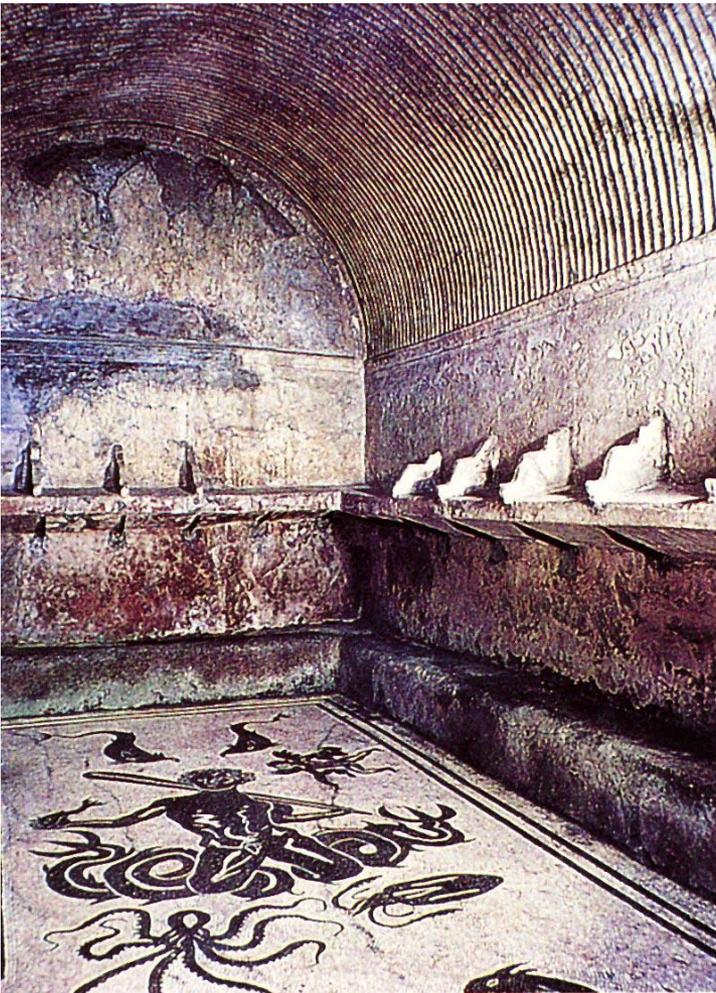
Coffered Ceiling



- Roman **Coffered** ceiling at the Pantheon (118-125 A.D.) were originally covered with blue stucco and gilded rosettes.



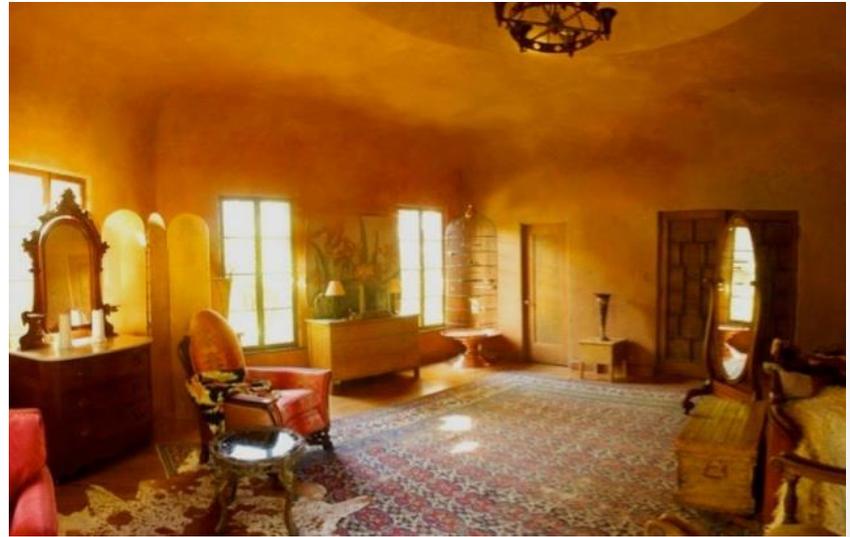
Barrel Vault



- Changing room in the women's section of the Forum Baths. Space is covered by a **stucco barrel vault**, marked by grooves. Floor is black and white mosaic.



Coved Ceiling



Exposed Ceilings



Haddon Hall, 14th Century

Middle Ages (500-1300 A.D.) featured structural details of open beams supporting a pitched roof. Some ceilings were flat with exposed beams. Upper class homes featured paintings, checkerboard designs and heraldic motifs.

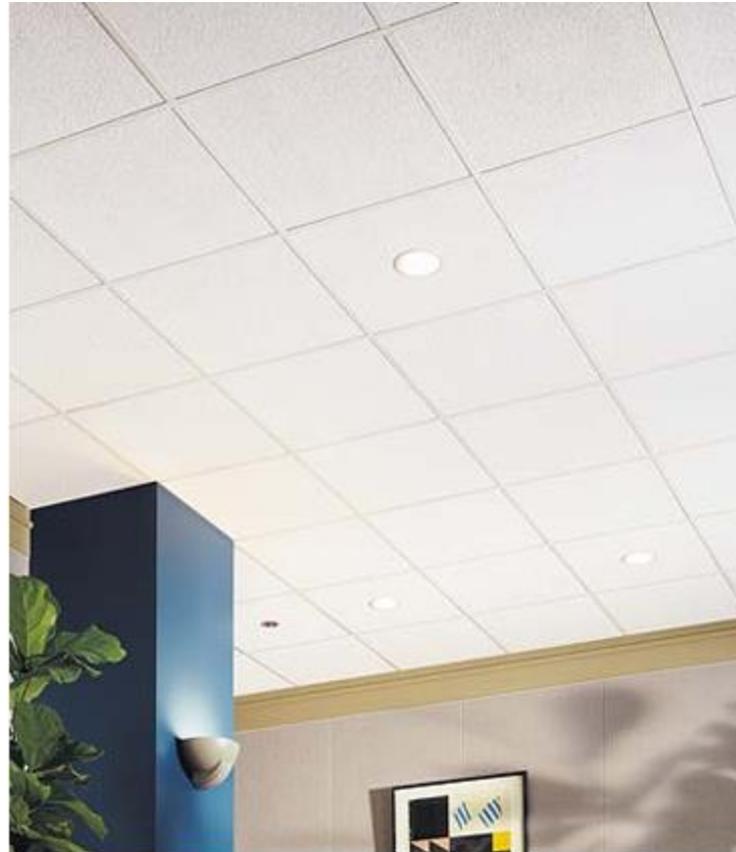


Tray Ceilings



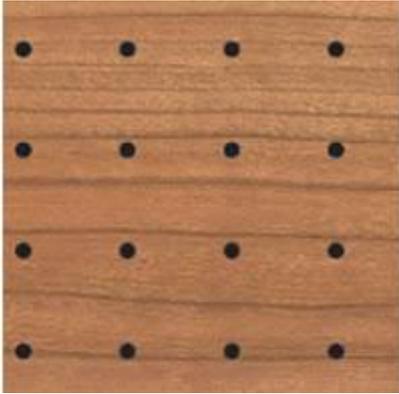
Suspended ceilings – Advantages

- Low cost
- Fast installation
- Sound control
- Flexible
- Adaptability of lighting and mechanical
- Easy accessibility to plenum space



Shown: Cirrus Square Lay-in

Specialty Tiles



Shown: Metaphors Crown Coffers

FLOORING

Factors to Consider

- Durability and wear factors
- Cleaning and maintenance
- Acoustics
- Static electricity
- Moisture in slab
- Price
- Appearance
- Safety

Categories of Flooring

- **Soft Flooring** – *(warm, quite, difficult to maintain, allergens)*
 - Rugs and Carpets
- **Resilient Flooring** *(durable, good acoustics, easy to maintain)*
 - Sheet Vinyl
 - VCT (vinyl composition tile)- requires waxing which is not easy to maintain
 - Cork
 - Rubber
 - Linoleum
- **Hard Flooring** *(durable, noisy, more expensive)*
 - Stone (Slate, marble, flagstone, terazzo, granite)
 - Brick
 - Ceramic Tile
 - Wood and Bamboo (strips, planks, parquet)
 - Concrete
 - Laminate

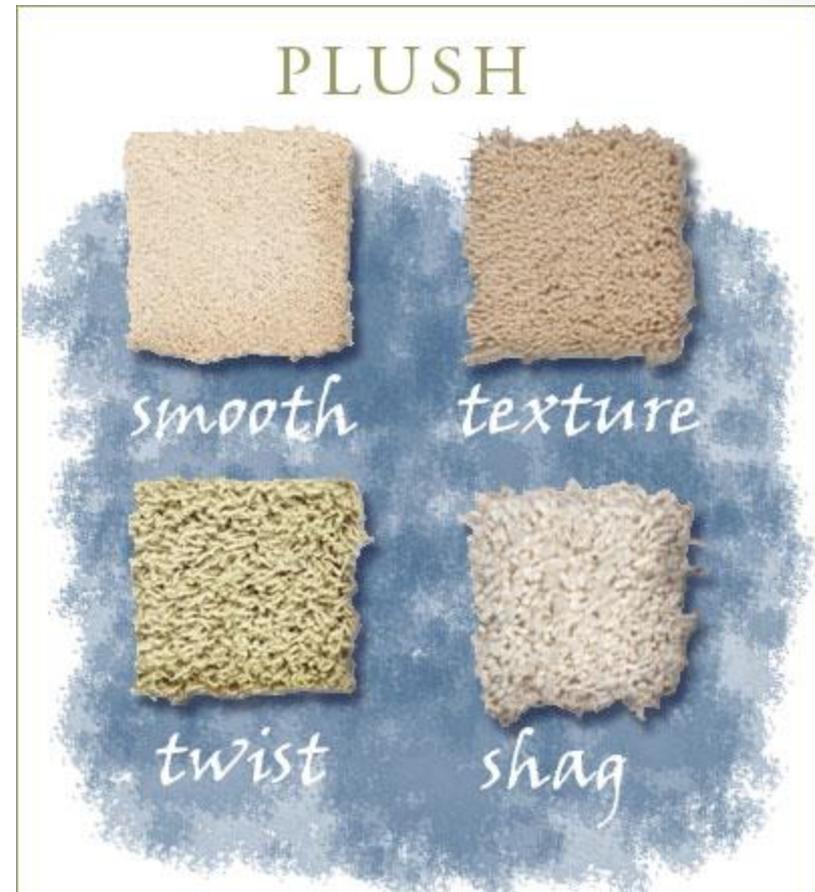
Plush Carpets

Smooth (known as a Saxony) - This style of cut pile carpet is achieved when the tufts of yarn are sheared to a low, smooth pile height for uniform color and a formal look.

Texture - This popular style offers a smooth, level finish, but the yarns have more twist, which creates a less formal look.

Twist (known as a Frieze) - The yarns in this style are even longer, creating a soft, comfortable, casual appearance.

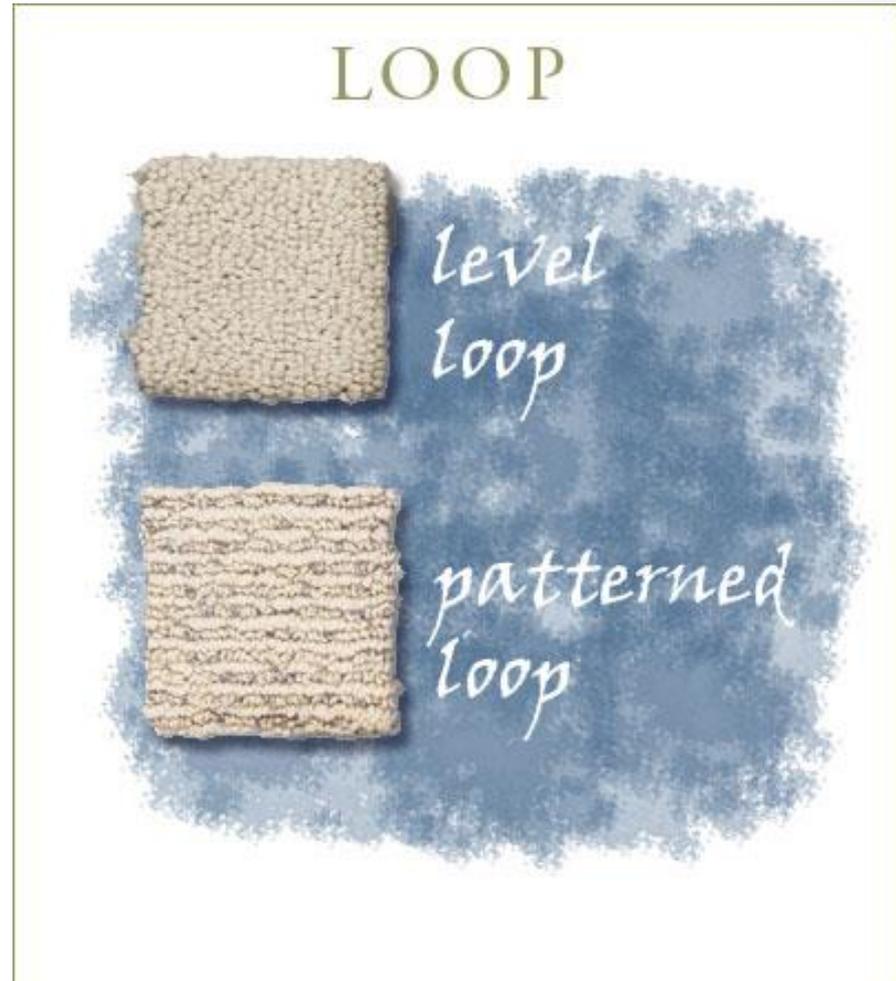
Shag - The yarns in this style are even longer, creating a soft, comfortable, casual appearance.



Loop Carpets

Level Loop (often called a Berber) - In this style, all the loops are the same height. The dense, firm surface of a loop pile carpet makes it ideal for high-traffic areas.

Patterned Loop - The yarns in this style are also looped, but they are at two or three varying heights. The various heights can be arranged to create a wide range of patterns and textures.



- **Patterns** - Pattern carpets beautifully blend loops and cuts in varying heights for dramatic, unique patterns, ranging from floral designs to geometric to pin-dot.

