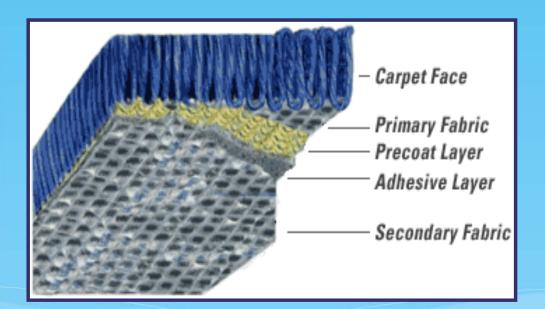
Welcome to



A Brief Introduction of Carpets

What is a carpet?

A carpet is a textile **floor covering** consisting of an upper layer of **"pile"** attached to a **backing**.



The **pile** is generally either made from wool or a manmade fibre such as polypropylene.

It usually consists of twisted tufts which are often heat-treated to maintain their structure.



What are some of the available carpet textures?

Loop Pile



Cut Pile



Loop Pile & Cut Pile Combinations





What are the different fibres available for carpets?

Nylon (Polyamide)

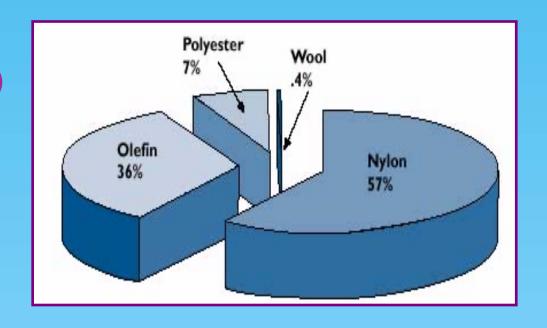
Polypropylene (Olefin)

Polyester

Wool

Acrylic Viscose (Rayon)

Silk Cotton



What are their advantages and disadvantages?



Common Types of Carpet Fibres and their Characteristics

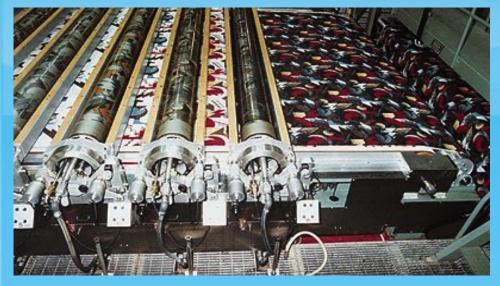
	Wool	Nylon	Polyester	Acrylic	Polypropylene
Price	\$\$\$\$\$	\$\$\$\$	\$\$\$	\$\$\$	\$\$
Resilience	Excellent	Excellent	Average	Good	Average
Abrasion Resistance Determined by <i>fibre</i> and <i>density</i> of face fiber	Very good	Excellent	Excellent	Average	Good
Soil & Stain Resistance/Cleanability	Very good	Very good / Excellent (with chemical treatments)	Good (oily stains should be promptly treated).	Good	Excellent (oily stains should be promptly treated).
Resistance to Sunlight (color fastness)	Average	Good / Excellent special dyes may be used to inhibit sun damage.	Good may weaken with prolonged exposure.	Excellent	Excellent when chemically modified to resist sunlight damage.
Resistance to Mildew Determined by fibre structure and modifications	Poor if damp or soiled.	Excellent when fibre is modified	Excellent	Excellent	Excellent
Hand	Warm, soft	Varies from warm and soft to cold and coarse.	Varies finer deniers are soft and silky.	Warm, soft	Waxy, soft
Anti -Flammability	Excellent Burns slowly indirect flame; considered self- extinguishing; chars rather than melts.	Very Good Burns slowly, melts in direct flame; self-extinguishing. Structure may alter what occurs.	Average Burns slowly, melts; some are self- extinguishing.	Average - Acrylic burns readily unless modified.	Average Melts at low temperatures (170° C); burns and emits heavy, sooty, waxy smoke. Paraffin wax odor. Pulling a heavy object across the carpet surface can cause enough friction to melt the carpet fibres.

What are the different ways of creating patterns, motifs & textures on carpets?

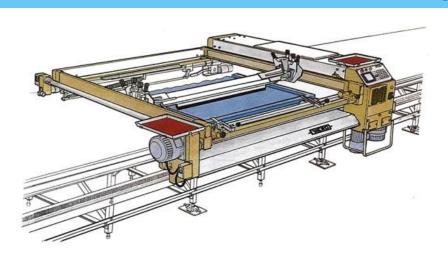
- Printing
 - Screen printing
 - Chromojet printing
- Tufting with CAD/CAM graphics machines
 - Different types of machines, vast variety of textures and patterns, relatively inexpensive
- Weaving on Axminster looms
 - Slow production, relatively expensive, but infinite number of colors, thicker yarns
- Weaving on Wilton looms
 - Less number of colors, but fast production, velour look
- Hand-tufting, Hand-carving, Hand-weaving



Rotary Screen Printing



Flat Screen Printing



Printing

Chromojet Printing





Graphics Tufting Machine



Axminster Weaving Machine



Needle Punching Machine



Wilton Weaving Machine





Hand Tufting











What are the categories of carpets?

- Broadloom Carpet / Wall-to-Wall Carpet
- Carpet Tile / Modular Carpet
- Needle-punched Carpet/P-Pet / Exhibition Carpet
- Grass Carpet / Artificial Turf
- Mat / Doormat / Throw Mat
- Area Rug / Rug / Runner



Broadloom Carpet/ Wall To Wall (WTW)

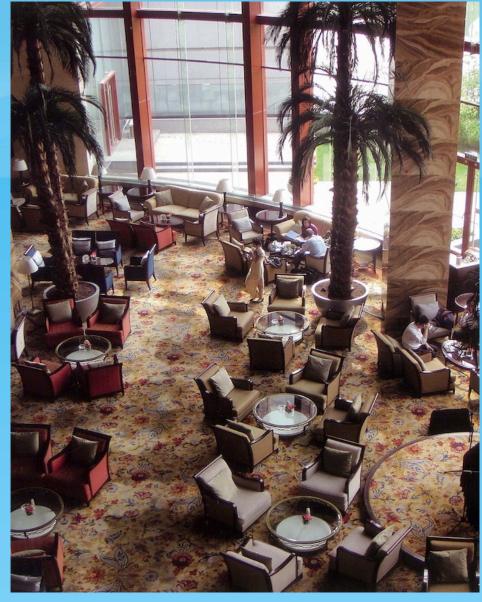










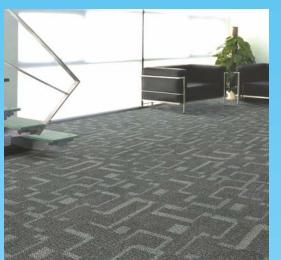




Carpet Tile









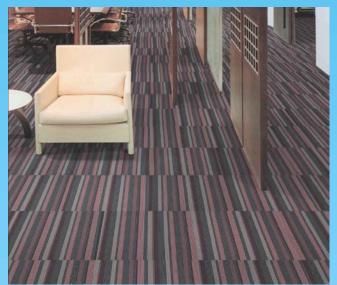














Needle punched Carpet / P-Pet







Artificial Grass Carpet





Indoor / Outdoor / UV Treatment

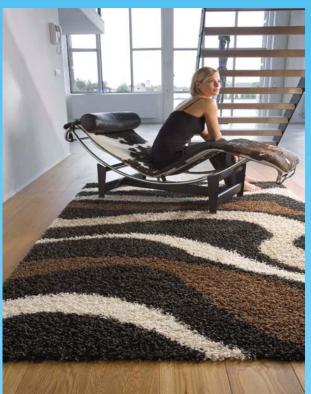




Rugs

Decoration









Doormat / Entrance Mat

Indoor / Outdoor / Washable









What are some of the different ways of producing carpets?

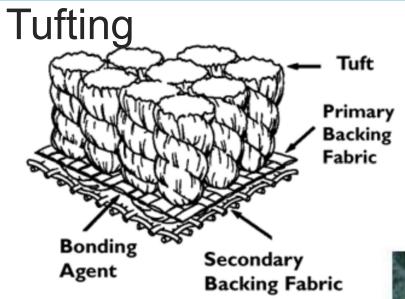
Tufting

Weaving

Needle Punching



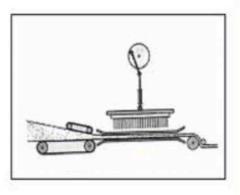




What are some of the different ways of producing carpets?

Needle Punching







Raw material

Needle punching ------

Hon-woven fabric





Where Are Carpets Normally Used?

Commercial uses

Offices

Banks

Schools, Hospitals

Theatres/Cineplexes

Airports

Hospitality uses

Hotels => Guest Rooms, Corridors,

Function Rooms, Ballrooms, Lobby and other public areas

Cruise Ships

Restaurants, Lounges, Bars, Discos

Boutique Shops, Department Stores,

Retail Showrooms

Residential / Domestic uses:

Homes => Living Room, Bedroom,
Family Room/Den, TV Room
Apartment Buildings / Service Apartments



Commercial carpets















Commercial carpets - Cinema Project















Hospitality carpets













Hospitality carpets





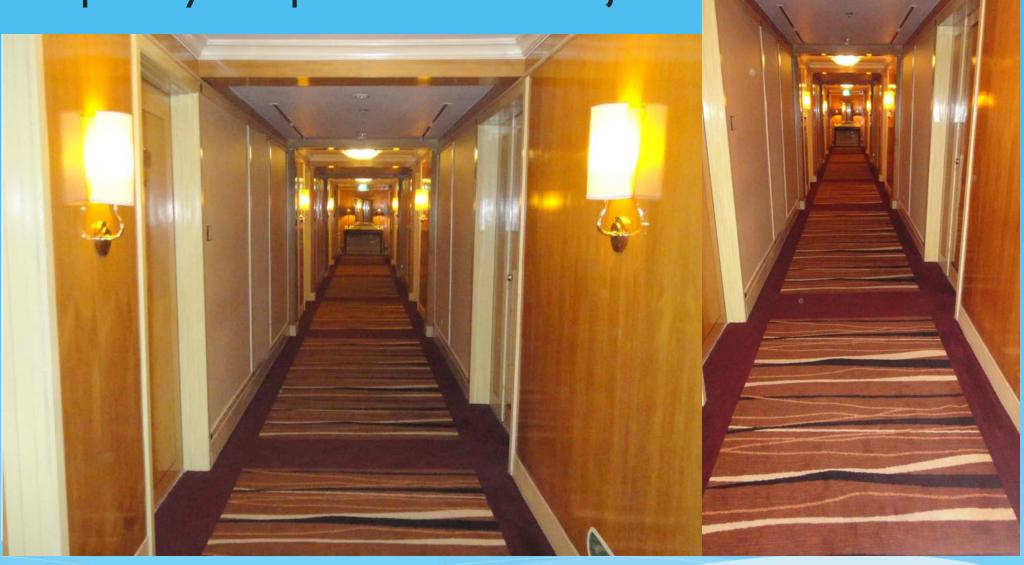






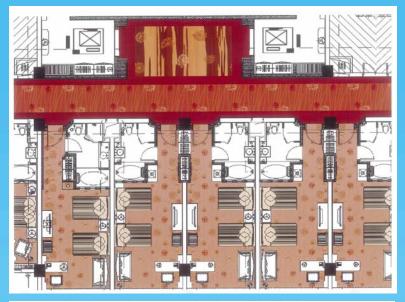


Hospitality Carpets – Hotel Project





Hospitality Carpets











Residential carpets/ Rugs







Broadloom Carpet vs. Carpet Tiles

Advantages of Using Carpet Tiles:

Easy to store and transport

Easy to work out estimated project quantities

Easy to work out installation laying plan

Easily mix & match patterns, colors, textures

Easily replace damaged carpet portions

Drawbacks of Using Carpet Tiles:

Much more expensive than equivalent broadloom carpet

More visible joints (seams) than broadloom carpet

Cannot install underlay for extra comfort

Less versatility in styling and textures



How to decide which quality of carpet is to be used in your project?

Factor I:

Performance vs. Comfort

Performance

High density (stitch, gauge)

Low pile height

Harder Wearing fibres (e.g. nylon)

Comfort / Luxury

High pile, shaggy pile

Low density (stitch, gauge)

Softer / thinner fibre

Factor 2:

Cost / Affordability

Relative Cost of Fibres

Polypropylene vs. Nylon

Acrylic vs. Wool

Method of Carpet Production

e.g.: Tufted carpet vs. Axminster carpet

Factor 3:

Color and Design



Carpet Installation - some considerations

Basic methods of installation:

Direct glue down

Using underlay and grippers

Double stick installation (Durafit System)

Seaming of joints nailing of grippers

Installation costs



Where to find out more information on carpets?

www.heritagecarpets.sg

www.carpet-rug.org



Recap

- What is a carpet ?
 A: Textile floor covering with pile and backing
- 2. What are the different broad categories of carpets?
 A: Broadloom, Tiles, Needle punch, Grass, Mats, Rugs
- 3. What are some of the different ways of producing carpets?
 A: Tufting, Weaving, Needle punching
- A: Tufting, Weaving, Needle punching
 4. Where are carpets normally used?
 A: Commercial, Hospitality, Residential
- 5. What are some of the available carpet textures ? A: Loop pile, Cut pile, Cut & Loop pile
- 6. What are the different fibres used in making carpets? A: Wool, Nylon, Polypropylene, Polyester, Acrylic
- 7. What are some of their advantages and disadvantages?
- 8. What are some ways of getting patterns & motifs on carpets?
- 9. Which carpets should be used where?
- 10. Broadloom Carpet vs. Carpet Tiles
- 11. Carpet installation
- 12. Web resources



OUR COMMITMENT TO PROTECTION

OF OUR ENVIRONMENT

HERITAGE CARPETS is committed to ensure that our products meet top standards of quality and also have a positive impact on environment. Our carpets are tested and certified by various agencies including ITTS (USA), Carpets and Rugs Institute (USA), The Singapore Environment Council (Singapore) and GUT (Europe).

Our major carpet manufacturers are also accredited with the ISO 14001 standards of excellence.











Thank you! (^^,^)

