



**Resilient floor coverings - part 1**

# Best Practice Guidelines for Planning and Installation



## ACKNOWLEDGEMENT

The Floor NZ board would like to acknowledge the support and valuable contribution of the following sponsors for this project.



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# What is a resilient flooring product?

Resilient flooring products are hard floor coverings often made from Vinyl; in sheet or tile form.

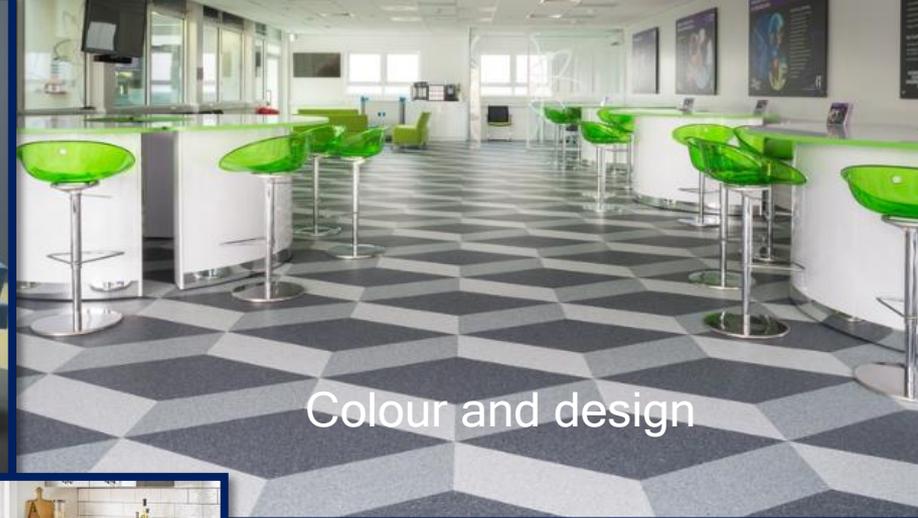
Linoleum (Marmoleum) and rubber are not vinyl but are also considered resilient floor coverings.



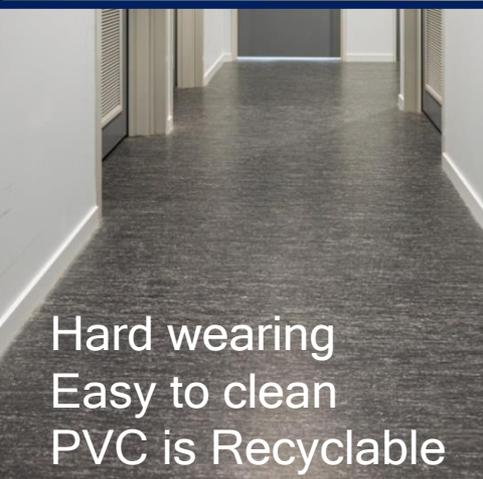
Click together

# Resilient flooring benefits

Linoleum is made of natural ingredients - linseed oil, pine rosin, wood flour



Colour and design



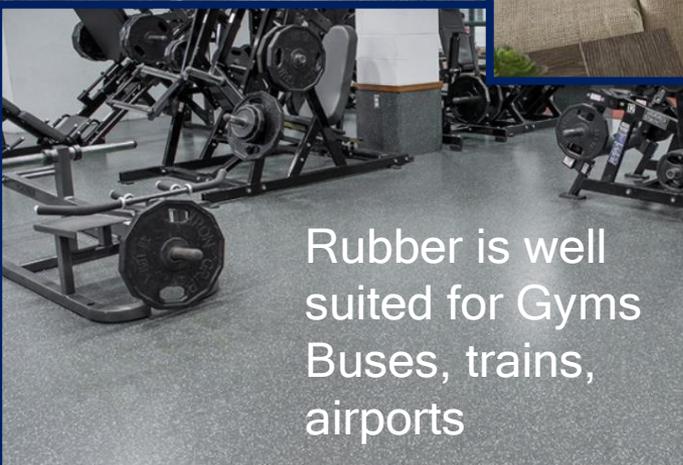
Hard wearing  
Easy to clean  
PVC is Recyclable



Domestic and commercial use  
Tile and Sheet form



Hygiene areas- coving  
Slip resistant  
Water proof



Rubber is well suited for Gyms  
Buses, trains, airports



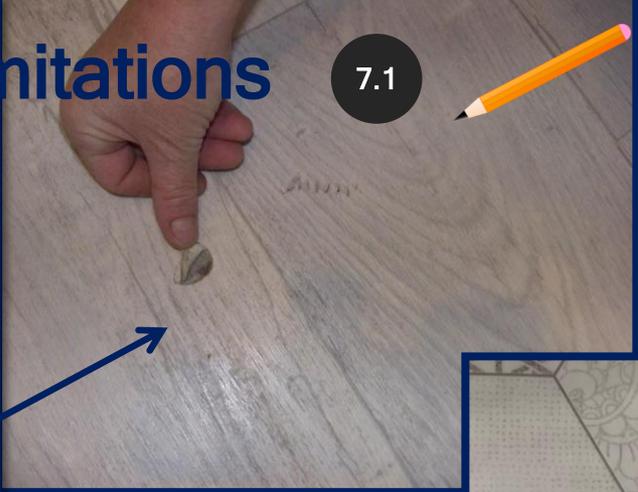
Vinyl Composite Tiles (VCT) are replaceable  
High loads and floor traffic

# Resilient flooring limitations

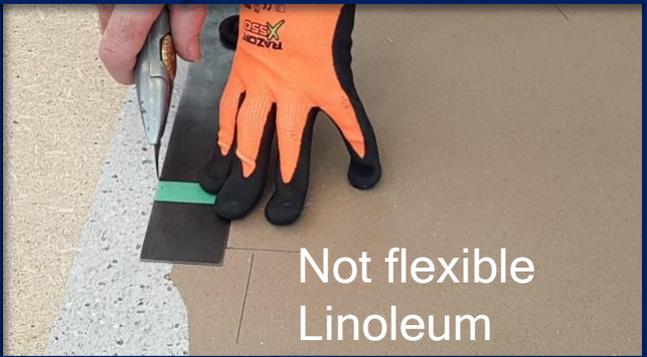
7.1



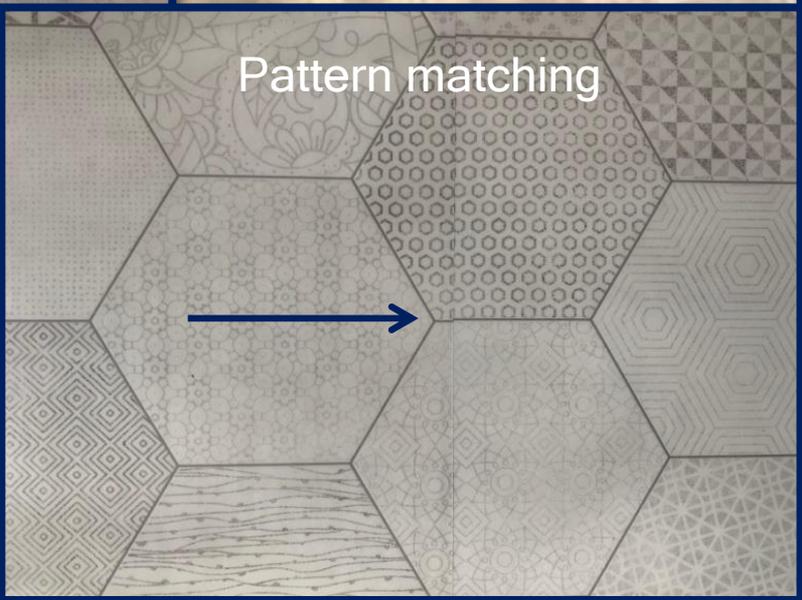
Damage - dragging furniture, pet claws, chair legs



Difficult to cut  
Cleaning



Not flexible  
Linoleum



Pattern matching

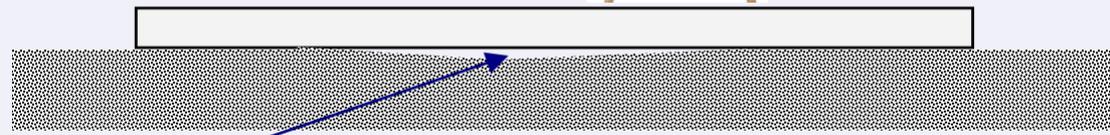


Plank step out  
Breaking joint mechanisms

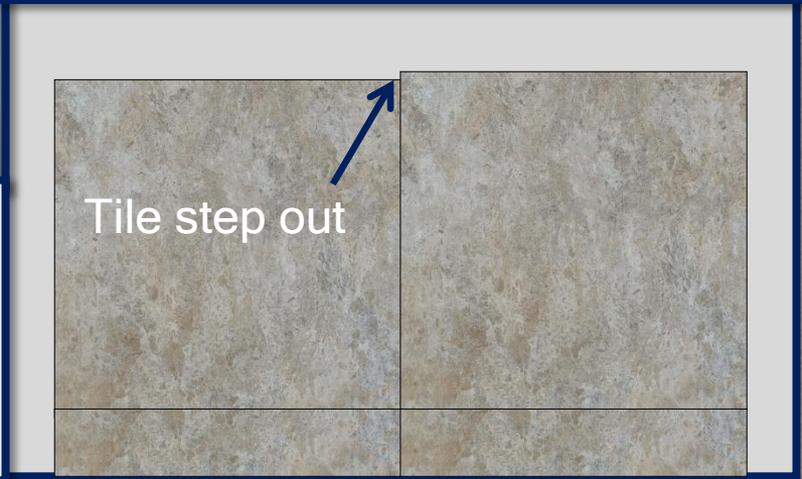


Straightedge

Floors need to flat



Gap



Tile step out

# Resilient flooring limitations

7.1

Shrinkage

Expansion  
Heat  
Adhesive  
Temperature at installation

Join exposed to high temperatures

Curl & break

Welding joints-  
difficult on  
heterogeneous  
vinyls, linoleum

Dark colours  
Natural Light  
Floor preparation

Rubber-  
odour, seaming,  
adhesive

Staining  
Plasticiser reactions

Sparky marking  
where the lights  
will go

Spray paint  
residue

Cleaning

Rubber wheels

Latex Carpet  
backing



# What are resilient floors made from?

## Vinyl

1. Poly Vinyl Resins - commonly used is PVC (Polyvinyl chloride)

2. Fillers and Materials - Limestone (calcium carbonate), colour pigments,

3. Plasticizers- Solvent/Fine oils for flexibility



## Mix

More vinyl less filler = more expensive

More plasticisers = more flexibility

More filler = cheaper and more stiff



# What are resilient floors made from?

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## Linoleum

Made from Natural materials



# What are resilient floors made from?

## Rubber

1. Recycled rubber - recycled rubber



2. Synthetic rubber - (manmade) oil and chemical based

3. Natural rubber - sap found in para rubber trees

