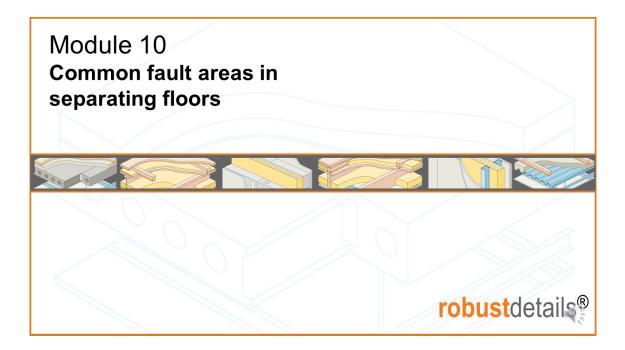
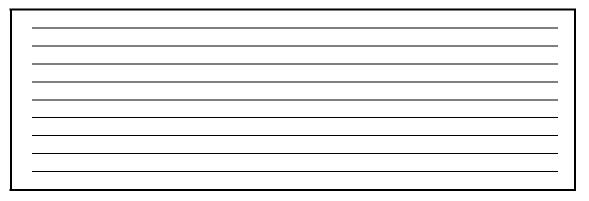
Slide 1

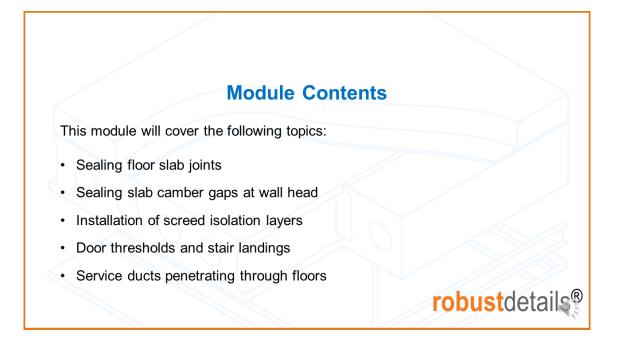


Welcome to Module 10 - Common fault areas in separating floors



robustdetails®

Slide 2



This Module will cover the following topics;

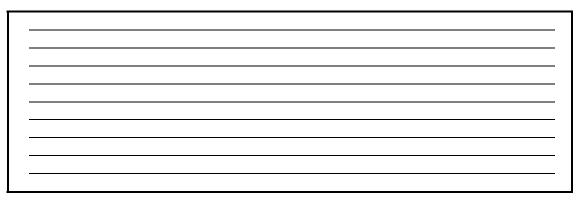
- Sealing floor slab joints
- Sealing slab camber gaps at wall head
- Installation of screed isolation layers
- Door thresholds and stair landings
- Service ducts penetrating through floors



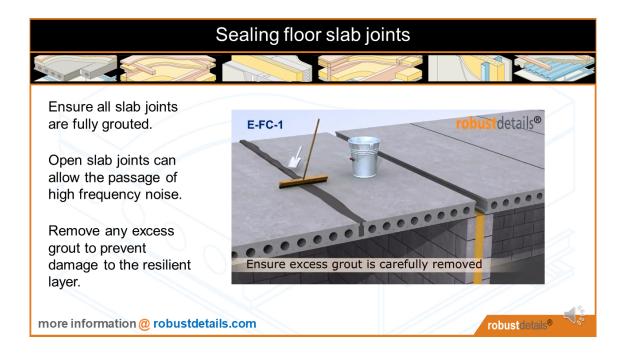
Slide 3



Read slide



Slide 4



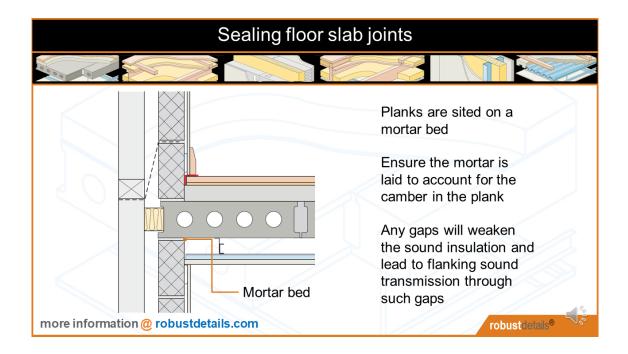
Ensure all joints and gaps in the planks are fully grouted. This enhances the floor stiffness, and stops the passage of high-frequency noise.

It is not acceptable to use expanding foam instead of grout.

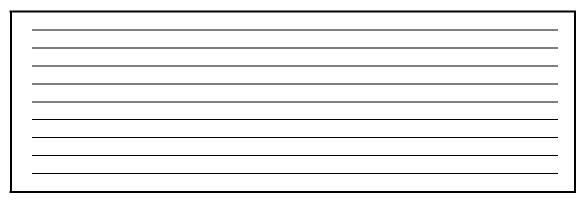
It's important to remove the excess grout before it sets; and make sure the floor surface is clean before laying the resilient layers, to avoid any damage.

This is a still from one of the many animations we have on the Robust Details website – they're definitely worth a look if you're working with an unfamiliar Robust Detail.

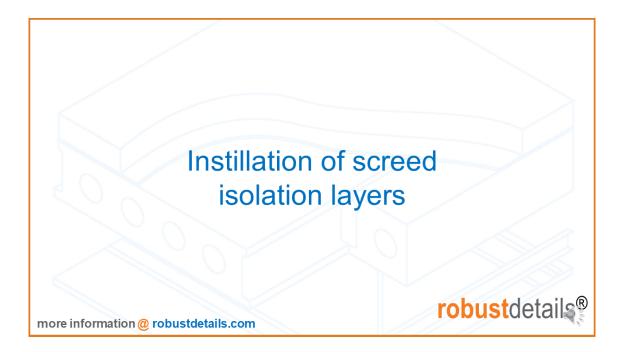
Slide 5



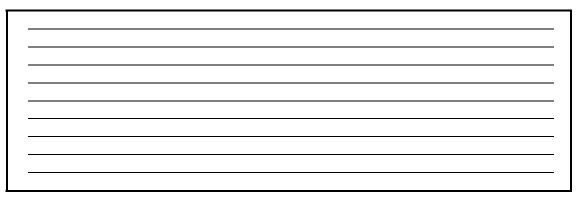
Read slide



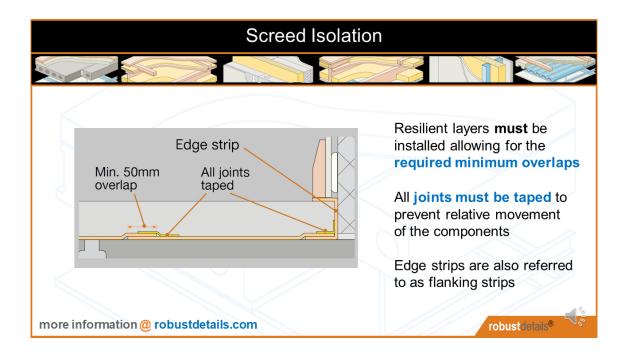
Slide 6



Read slide



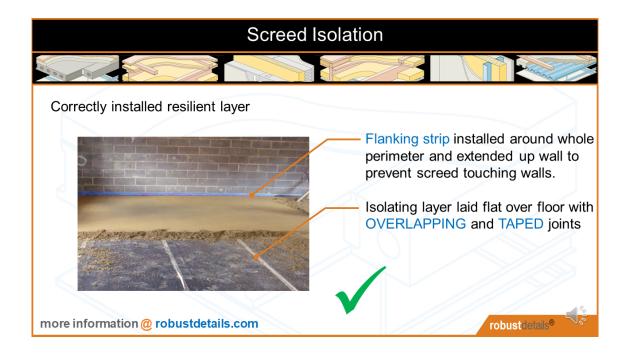
Slide 7



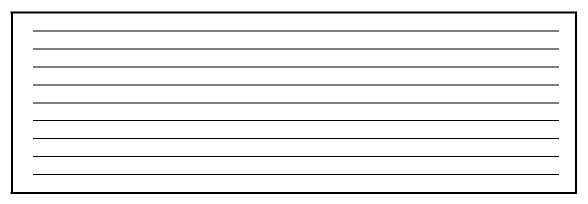
It is critical that the resilient system, comprising the resilient layer and flanking edge strips, are properly installed with the required overlaps – and tape is securely applied.

Overlapping and taping the joints guards against the material moving during the screeding process. If it does move, the screed can get into any gaps that are formed, and will create a flanking path.

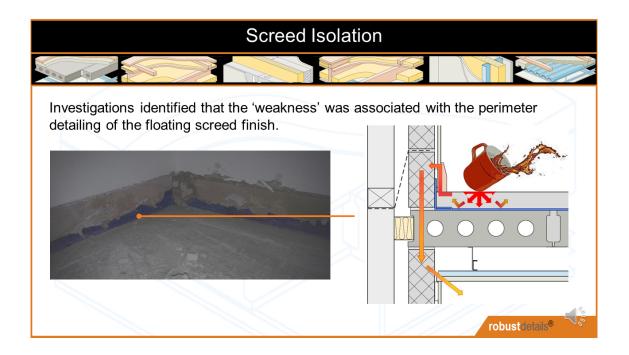
Slide 8



This is a photograph shows correctly installed resilient layer remaining firmly in place during application of the screed.



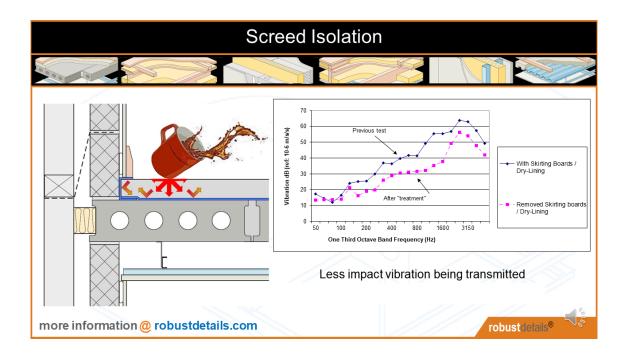
Slide 9



During the Robust Details monitoring, an impact fail was recorded – and the weakness was narrowed down to the perimeter.

By removing the skirtings, it was found that although the resilient flanking strips had been installed they had not been dressed down over the top of the screed. As this image, shows, the contact of the skirting/wall finish onto the screed creates a flanking path, which in this case was sufficient to undermine the test results.

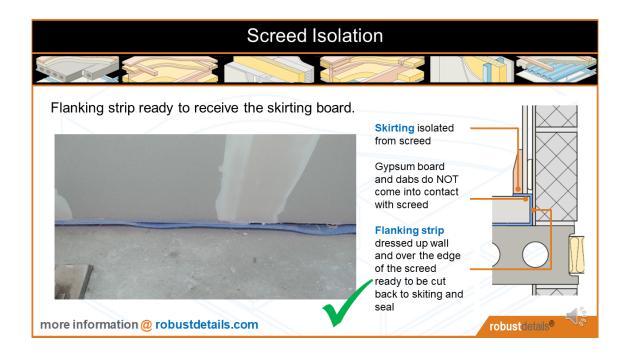
Slide 10



After the remedial works and with the skirting still off, another measurement was taken, which showed a 7dB improvement - so if the job was done right to start with, this would have been a good 57 dB pass, well below the 62dB maximum requirement for Part E and max 60dB for RD impact performance.

-	
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Slide 11



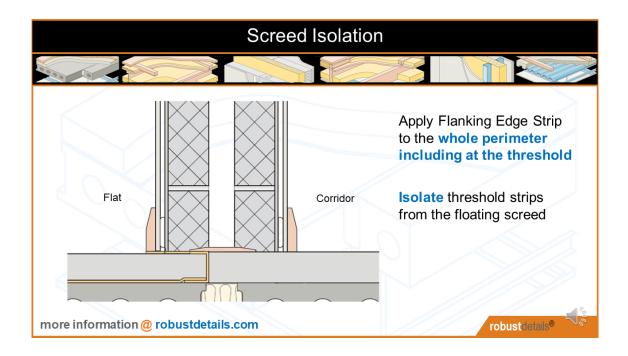
Resilient flanking strip must be dressed up the edge and over top of floating screed. This will isolate the screed from wall linings; and when the skirting board is affixed to the wall, it will sit above the flanking strip – and not on the screed.

Slide 12





Slide 13



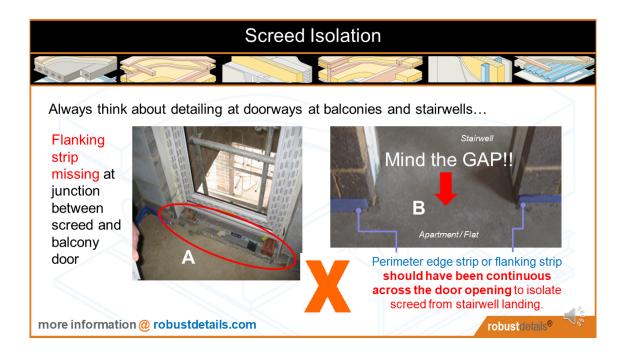
The Robust Detail specifies that the flanking edge strip must be applied to the whole perimeter of the floating screed – so this includes at the threshold of the entrance door.

Now, provided the corridor floor is not above an apartment, it does not have to protect against impact noise. This means the screed can be directly applied to the concrete planks, so impact noise can get into the concrete planks in the corridor

It's good practice to prevent this impact noise tracking into the apartment, So think about the type of cavity stops used between the corridor and the apartment. Also if a threshold strip is used, this should sit on top of the flanking edge strip.



Slide 14



We used these slide in the concrete floor section but its really important to explain how often we see these major errors on some sites.

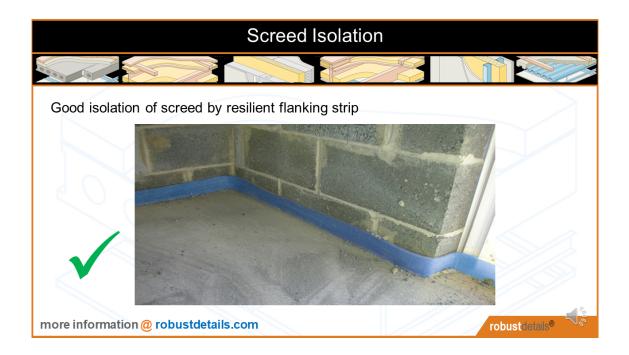
In picture (A) the flanking strip is missing at junction between screed and balcony door. Sound and vibration will now be able to transmit into the block walls and door cill.

In picture (B) the screed has been allowed to connect and touch directly through to the common stairwell landing of the flats and also comes into contact with the block walls.

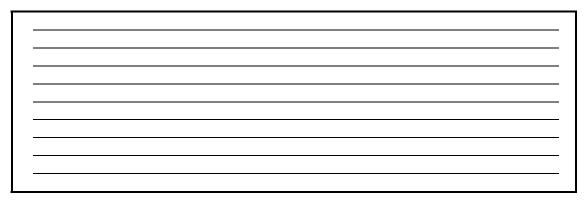
The purple perimeter edge strip or flanking strip should have been continuous across the door opening to isolate the screed from the stairwell landing.



Slide 15



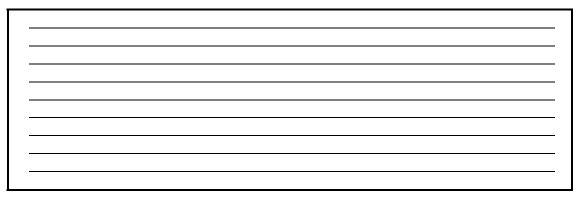
Flanking strip properly installed around the perimeter – just remember to fold it down before applying the wall finishes.



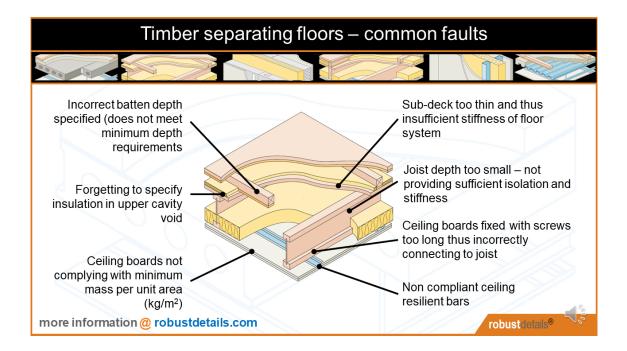
Slide 16



Read slide

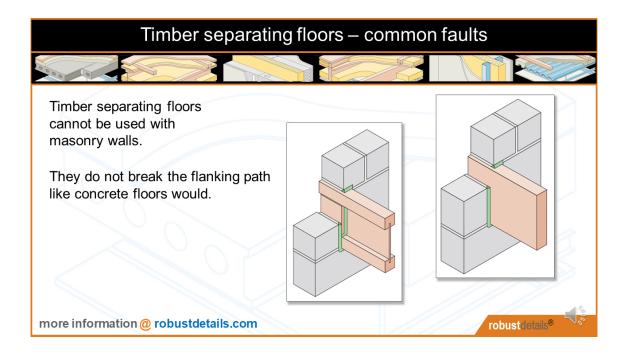


Slide 17



There are a range of specification errors which can negatively influence the performance of a timber separating floor, which can affect airborne and impact performance. These include... (read slide)

Slide 18

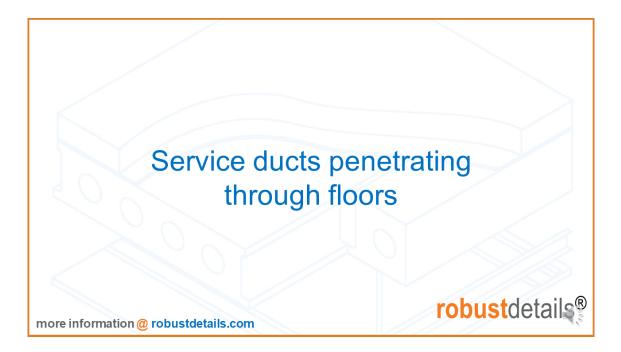


As stated at the top of page 1 of each of the timber separating floors, they are for "Use with timber frame walls only".

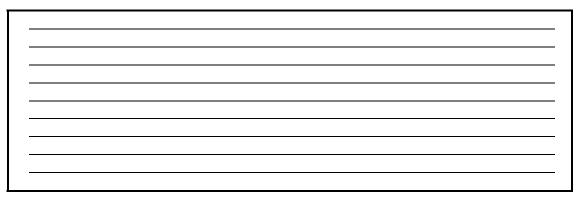
If used with masonry walls, they will allow flanking sound via the masonry leaf that is continuous past the edge of the floor.

Concrete floors are built into all of the surrounding walls which fully breaks this flanking path – timber joists only give small intermittent breaks at best.

Slide 19



Read slide



Slide 20

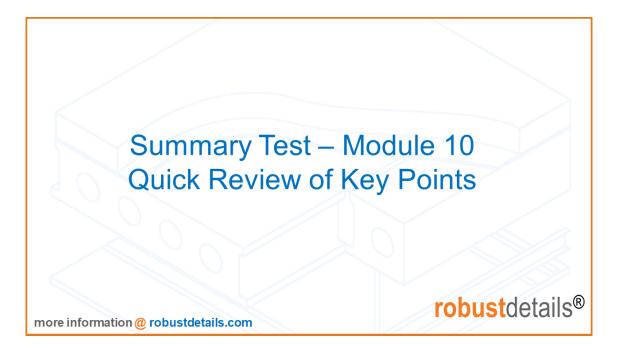


Where SVPs or other services pass through the separating floor, part of the floor structure has to be removed, which introduces a weakness. So we need to shield, or protect the hole in the floor

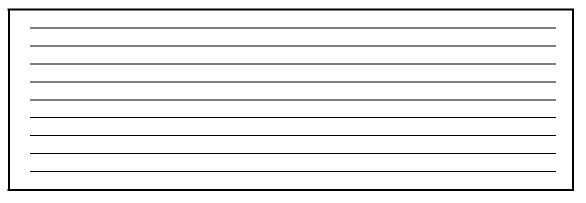
To do this, the SVP will be boxed-in. As the boxing is attached to the walls, we need to include the flanking edge strip to ensure that impact noise from the screed does not get into this structure, and then into the flanking walls. and of course the same goes for FFTs.

The mineral wool wrap is primarily to prevent reverberation within the boxing – and although it can reduce noise break-out from the pipe this is not a Building Regulation Part E requirement, as noise from use of the building falls under environmental noise.

Slide 21



Read slide

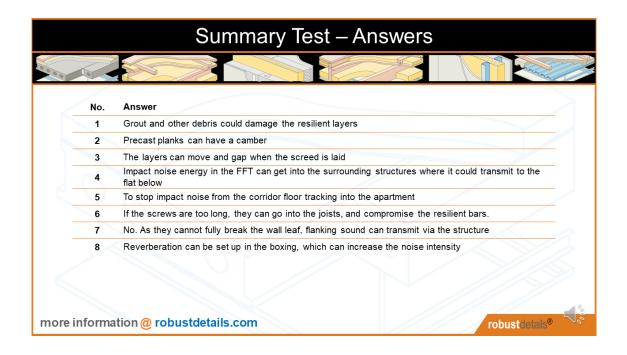


Slide 22

ummary	Test – Module 10	
No.	Question	
1	Why should all excess grout be removed once the plank joints have been filled?	-
2	What feature of precast planks can make it difficult to seal them to the surrounding walls?	
3	The resilient layers need to be overlapped and taped - what can happen if they're not?	_
4	In floating floor treatments (FFTs), what can happen if the flanking strip is not applied to the whole perimeter?	_
5	Why is the flanking strip needed at the entrance door threshold of an apartment?	
6	Why is it important to use the correct-length screws to fix the ceiling boards?	
7	Can timber separating floors be used with masonry walls?	
8	What will happen if the mineral wool is not included when SVP's are boxed-in?	
	ation @ robustdetails.com	ails

Read slide

Slide 23

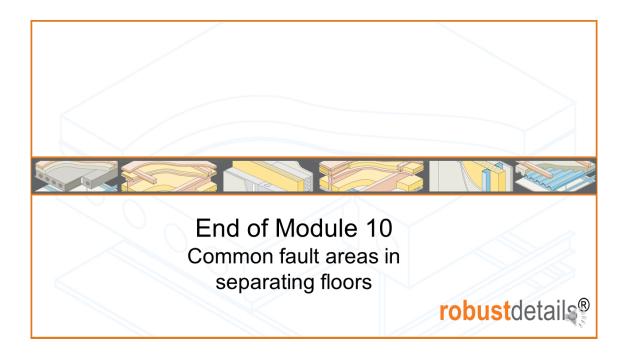


Here are the answer to Module 10's quick test. How did you do?

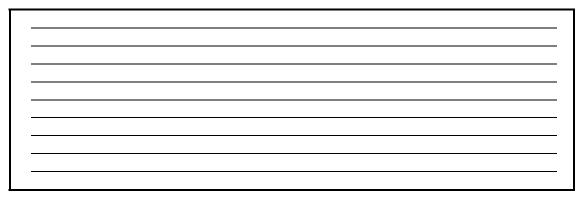
Thank you for following Module 10



Slide 24



End of Module 10 – Common Fault areas in separating floors



Slide 17



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Contact us:

Technical @

email: technical@robustdetails.com

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