

Multi-Purpose Sports Court Isolation



FS Jack up multipurpose sports court

Mason have been engineering and supplying multi-purpose sports isolation floor systems globally for over 40 years. We offer high performance floor systems for the isolation of impact, shock and footfall noise generated from sports court activities over sensitive spaces.



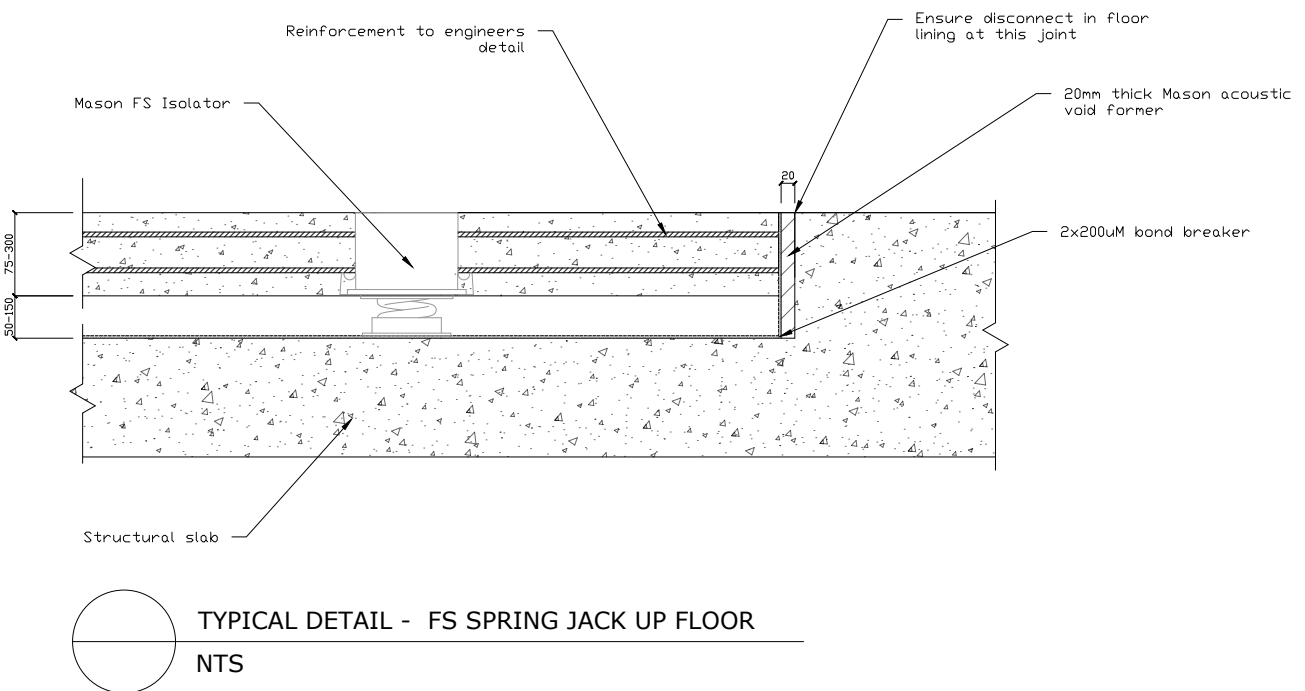
CONCRETE JACK UP ACOUSTIC FLOOR

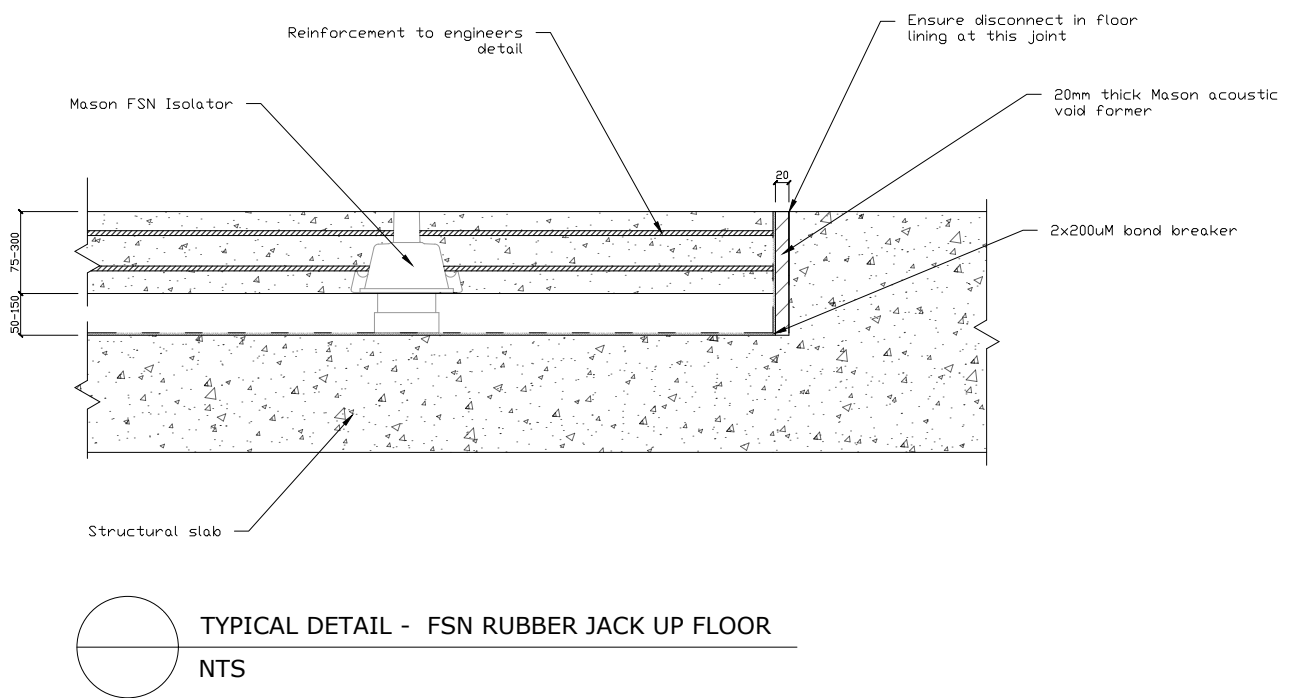
Our no compromise solution for sports court floors consists of our spring (FS) or Low Dynamic Stiffness Natural Rubber (FSN) jack up floor system. The isolators, which have a static deflection of 7-50mm are installed within a minimum 75mm thick concrete slab with the floor lifted a minimum 50mm creating an airspace under the acoustic floor of equal measurement.

The jack up floor system is in a class of its own and offers significant options for performance in a low profile overall build up. The style of system uses the host structure as formwork so that no additional metal or board formwork is required.

If using a Type FS Spring jack up system, access to the spring can still be maintained through the top of the housing once concrete has been poured.

The spacing of the jack up mounts can be up to 1200mm x 1200mm centres, greatly reducing installation time and cost.



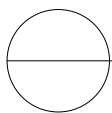
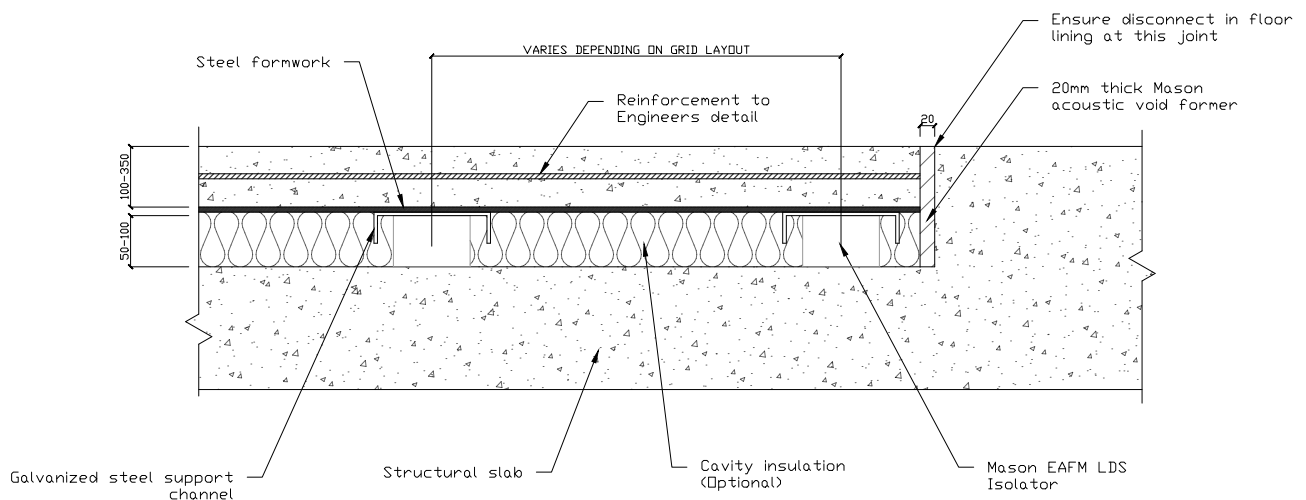


FS Jack up mounts installed prior to concreting.

CONCRETE FORMWORK ACOUSTIC FLOOR

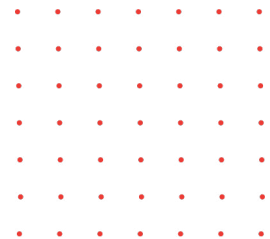
On occasion when drainage has not been co-ordinated with the acoustic floor, a formwork acoustic floor is detailed. Using our Low Dynamic Stiffness Bridge Bearing Natural Rubber EAFM Bearings installed under steel formwork the individual bearings can be packed to various falls while achieving a level finished floor level.

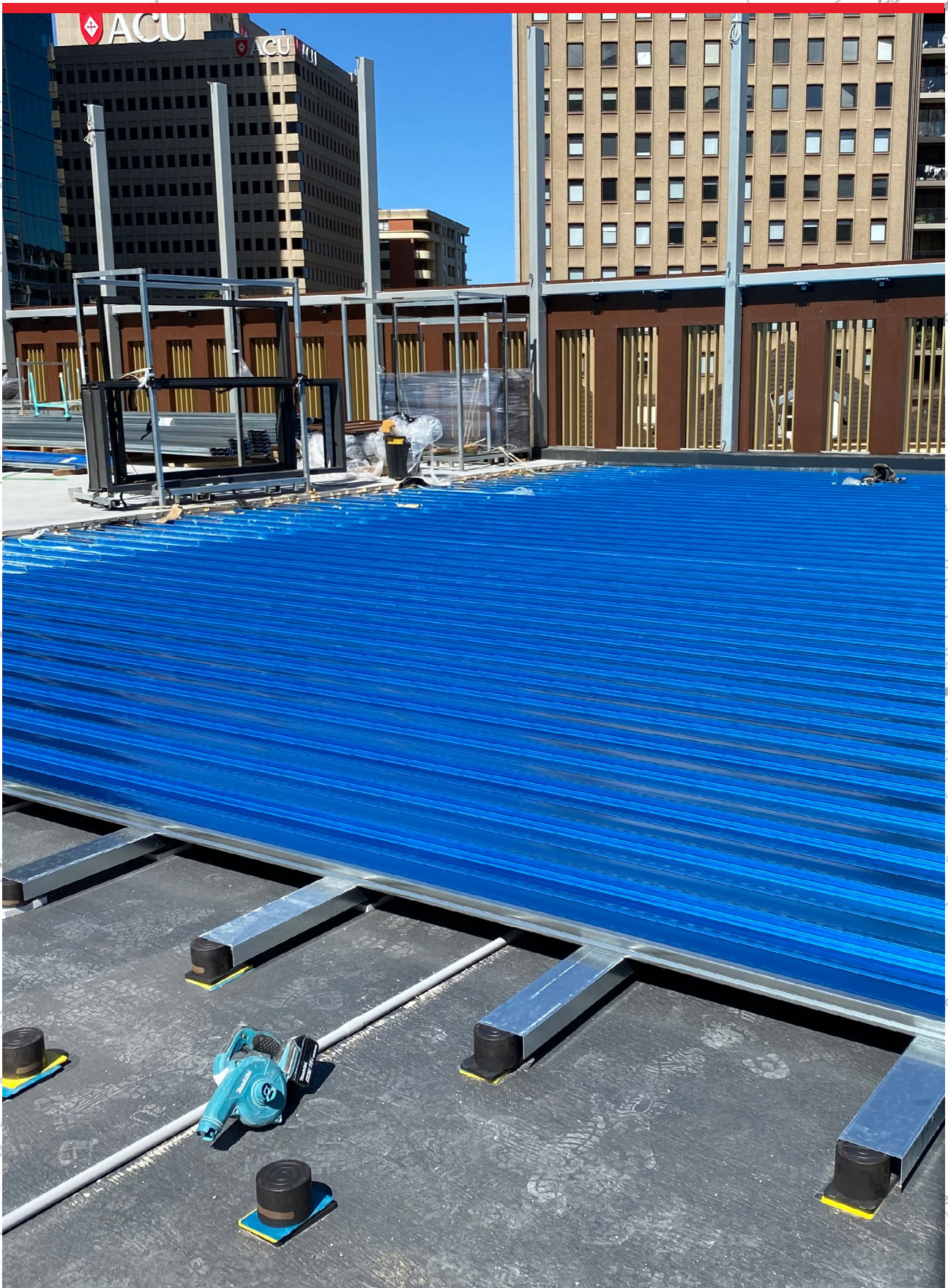
Whilst our EAFM Bridge Bearing Natural Rubber isolators are designed for longevity, we do not recommend this arrangement for steel springs. Installing steel springs in areas with no access is problematic and not good practice.



TYPICAL DETAIL - RUBBER FLOATING FLOOR

NTS - With Steel Formwork





EAFM LDS isolators installed under formwork floor

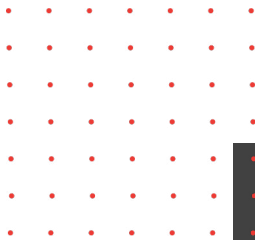
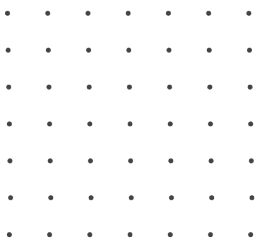
MULTI-PURPOSE SPORTS COURT FLOOR ISOLATION

DRAINAGE

Drainage is critical both on top and under external sports courts. We recommend drainage to be designed to direct water away from the acoustic floor system rather than falls which can promote ponding under the acoustic floor. Fewer fall directions are advised for an improved experience under foot.

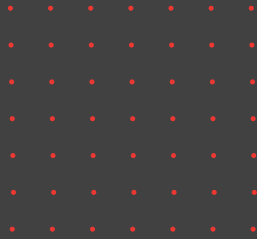
TESTING

Mason Mercer has empirical testing on our Type FS system for sports courts. If you would like a copy of our data, please contact our office or your local representative.



FOR FURTHER READING PLEASE CLICK THE FOLLOWING LINKS

- [*/ FS Spring Jack Up Floor Installation Overview*](#)
- [*/ FSN Rubber Jack Up Floor Installation Overview*](#)



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