

Spring isolation units type FSL comprise a group of heavy duty helical springs contained within robust steel platforms.

Applications

FSL springs can be used either under a foundation or mounted directly under machinery or building structures.

Construction

Fabricated steel platforms used with helical springs to BS 1726-1:2002. As standard the springs are painted black and the platforms are painted to the customer's colour choice.

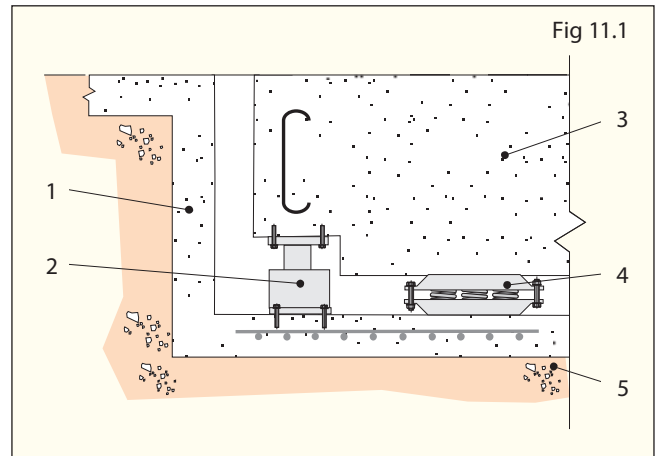
Properties

Low frequency vibration isolation for sensitive machinery.

Description of Diagram Fig 11.1

- 1) Re-enforced impermeable concrete pit.*
- 2) Farrat FV damper.
- 3) Re-enforced concrete foundation block.*
- 4) Farrat FSL springs.
- 5) Consolidated hardcore to firm ground.*

* Reinforced concrete foundation blocks and associated structures to be designed by qualified consulting engineers and constructed by contractors of proven ability and experience.



FSL Steel Springs can be used either on their own or in tandem with FV dampers. Where the system is likely to go through resonance and excessive movement is a concern it is recommended that FV dampers are used in conjunction with FSL springs. FSL steel springs can be employed in a variety of combinations and support arrangements, Farrat will design isolation systems to meet a customer's specific technical requirements. To assist our customers in the smooth running of every project Farrat provide construction drawings and installation instructions with all FSL springs supplied.

Product	Length mm	Width mm	Spring rate kN/mm	Load Per Unit at		Natural Frequency at		Isolator Height at		
				Max. load kN	Min. load kN	Max. load Hz	Min. load Hz	Max. load mm	Min. load mm	Free mm
FSL 1-4	500	305	3.4	85	28	3.2	5.5	140	157	165
FSL 1-6	550	305	5.1	128	42	3.2	5.5	140	157	165
FSL 1-8	725	305	6.8	170	56	3.2	5.5	140	157	165