

M481R & M482R

Resilmount Isolated Wall Brace

DESCRIPTION

For providing a structural tie between two walls and for supporting horizontal loads, the Resilmount M481R and M482R isolated wall brace is unsurpassed in performance, amenity and value.

Commonly used in cinemas, theatres and lecture halls to decouple internal steel or timber walls from the concrete structure, these acoustic mounts are engineered to reduce the transmission of structure-borne noise and vibration, while providing economic benefits by minimising the wall framing requirements.

Acoustic performance of this isolation mount has been laboratory tested and the unique design overcomes many of the shortcomings of traditional acoustic wall ties.

SPECIFICATION

M481R

Brace internal steel stud walls with isolated resilient brace tested to ISO 10140-2 and supplied with appropriate performance data. Use Resilmount M481R isolated wall brace as supplied by Studco Building Systems.

M482R

Brace internal steel stud walls with isolated resilient brace tested to ISO 10140-2 and supplied with appropriate performance data. Resilient element shall be pre-compressed to 5mm static deflection. Brace design shall disallow accidental 'shorting' of the isolation elements and shall not require the installer to adjust the compression bolt assembly. Use Resilmount M482R isolated wall brace as supplied by Studco Building Systems.

FEATURES

- Isolates tall internal walls from the building structure.
- Easy installations by screw fixing to stud web.
- No need for installer to adjust or engage with compression bolt.
- Eliminates possibility of shorting to the structure.
- Supplied as pre-compressed assembly with 5mm deflection (M482R only).
- Allows reduced stud size/spacing which reduces build cost.
- Can be installed after the wall framing is built.
- Engineered to prevent wall buckling during earthquakes.
- Laboratory tested to ISO 10140-2.

DYNAMIC CHARACTERISTICS

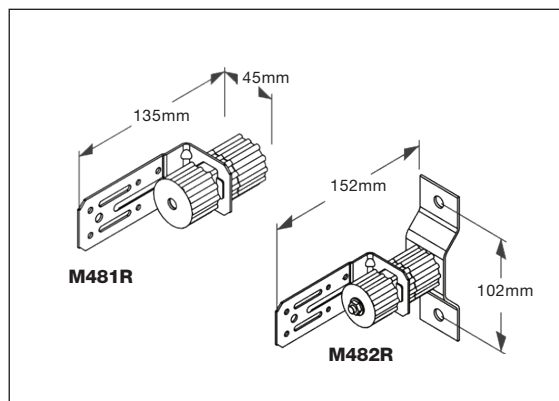
Resilmount's patented thermoplastic rubber outperforms standard rubber because of its unique natural absorbing characteristics. Resilmount's unique sound cell design guards against structure-borne vibrations transferring into the body of the Resilmount because of its strong column design providing a small percentage of contact surface area with the structure or surface it is fixed to. This aids in absorbing sound at its transfer point.



M481R



M482R



M481R & M482R DIMENSIONS

M481R & M482R

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INSTALLATION NOTES

Requirements for isolated wall braces vary from wall to wall, depending on a number of variables. For brace spacing and centres, please seek design advice from Studco's engineering consultants.

	FASTENER A	FASTENER B
M481R	Concrete 1 x M6 Masonry Anchor	2 x 10G-16 Self Drill Screws
	Steel 1 x Series 500 Self-Drill Screw	
M482R	Concrete 2 x M8 Masonry Anchors	2 x 10G-16 Self Drill Screws
	Steel 2 x Series 500 Self-Drill Screw	

- For M481R, tighten fastener to structure so that resilient elements are compressed by 5mm overall.
- Use oversize washer under screw head when using Series 500 self-drill screws to structure.



PERFORMANCE / TECHNICAL

Acoustic Performance

System Ref.	Width	R _w	R _w + C _{TR}	STC
M481R-01	318mm min.	68	65	68
M482R-01	328mm min.	69	66	69

- Maximum dynamic loading: FLAT = 0.4kN, FLONG = 0.6kN
- For fixing details, refer to 'INSTALLATION' section of data sheet.
- For fixing to concrete, ensure minimum 50mm embedment into concrete (32MPa concrete).
- Use only flanged screw heads.
- Steel stud gauge 1.15 BMT used for calculations.
- Distributed load only. For point loads, please contact Studco.
- For structural performance in seismic applications or for ultimate strength loads, please contact Studco.



PRODUCT RANGE

Ordering Information

Part No.	Description	Sub-Pack	Stock Pack	Approx kg/pce
M481R-RED	Resilmount M481R isolated wall brace – RED 62kg	50	50	0.13
M481R-PUR	Resilmount M481R isolated wall brace – PURPLE 105kg	50	50	0.13
M482R-RED	Resilmount M482R isolated wall brace – RED 62kg	25	25	0.2
M482R-PUR	Resilmount M482R isolated wall brace – PURPLE 105kg	25	25	0.2

- M481R is supplied with M6 x 150mm masonry through-bolt anchor.

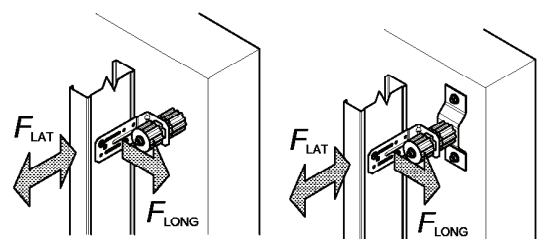
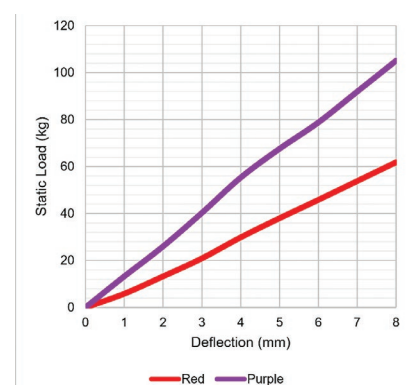


M481R INSTALLATION



M482R INSTALLATION

Static Deflection Rate



M481R & M482R

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WARRANTY

This product is covered by a five year warranty. Conditions and limitations of warranties are set out in the Studco Project Warranty certificate.



FURTHER ASSISTANCE

For sensitive acoustic applications, please consult Studco prior to specifying. For seismic applications and heavy wall linings, please consult Studco prior to specifying. Always consult a qualified structural engineer if unsure. For further information, contact Studco Technical Services Team on 1300 255 255.



ACCREDITATION/CERTIFICATION

Laboratory testing by:



Engineering and opinions by:

