

Stravilink QRC^{*}

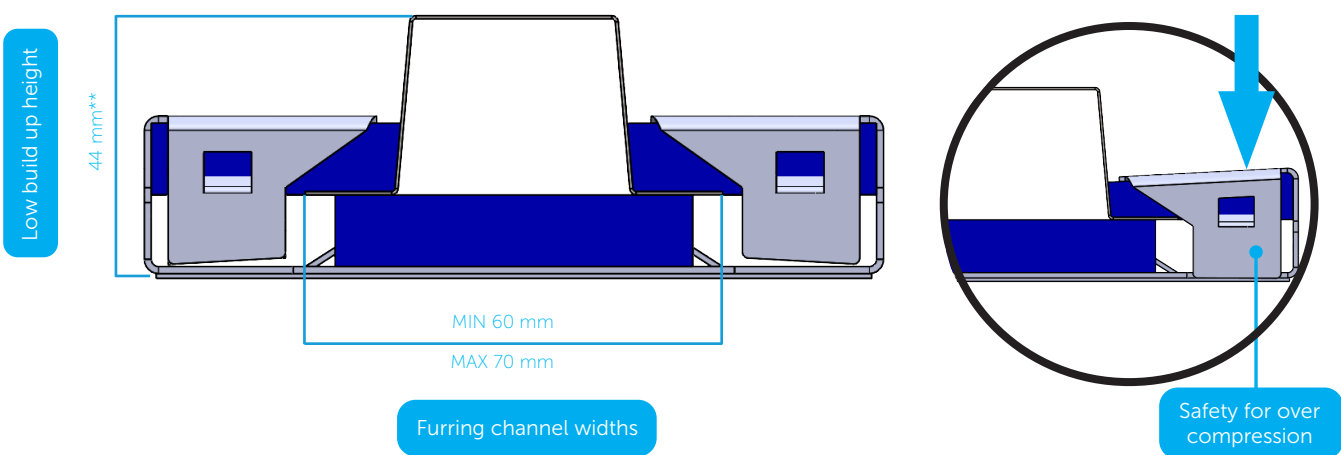
Datasheet

Stravilink QRC "Quiet Resilient Clip" is an **isolated wall and ceiling clip** designed to isolate a standard wall and ceiling channel therefore optimising sound insulation between horizontally and vertically arranged rooms.



FEATURES

- Suitable to fix to any substrate, stud or fixing type
- Acoustic design load range up to 240 N with natural frequency below 15 Hz
- Low build up height of 44 mm
- Quick installation thanks to flexible concept
- Accommodates furring channel widths from 60-70 mm
- Error free installation thanks to safety for over compression
- Structural failsafe



Perimeter Strip to isolate the wall from the supporting floor and adjacent walls is available to order.

* This solution now replaces the previous Stravilink QRW.

** May accept different regional furring channel sizes.

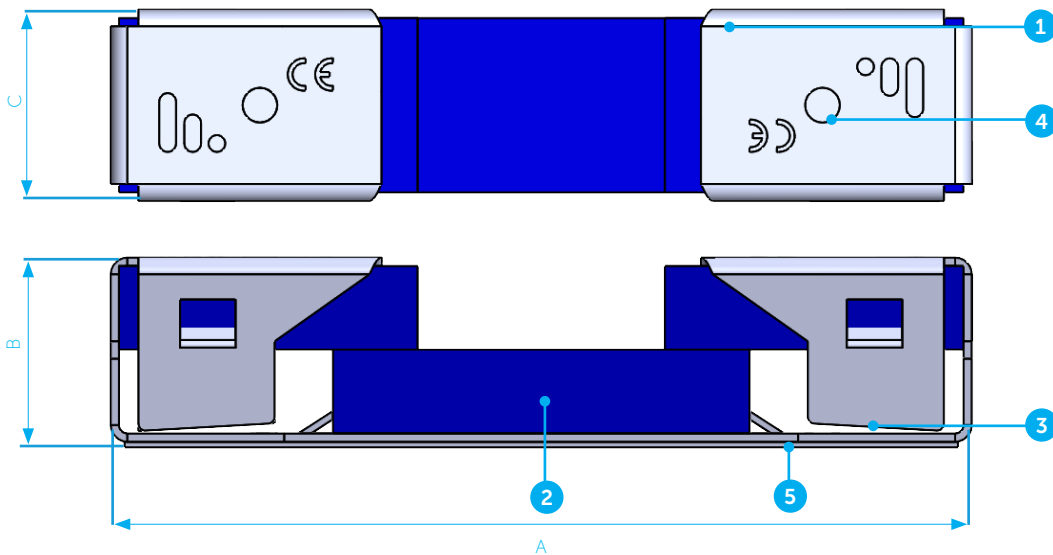


PHYSICAL & MECHANICAL PROPERTIES

Length (A)	Height (B)	Width (C)	Load Range	Resonance Frequency	Elastomer Colour
mm	mm	mm	N	Hz	
124	27	27	50-240	15	Blue

Product limitations:

- Products are suited up to a C2 environment (atmosphere with little or no degree of pollution).
- The temperature range of use is between -30°C (22°F) and 70°C (158°F).



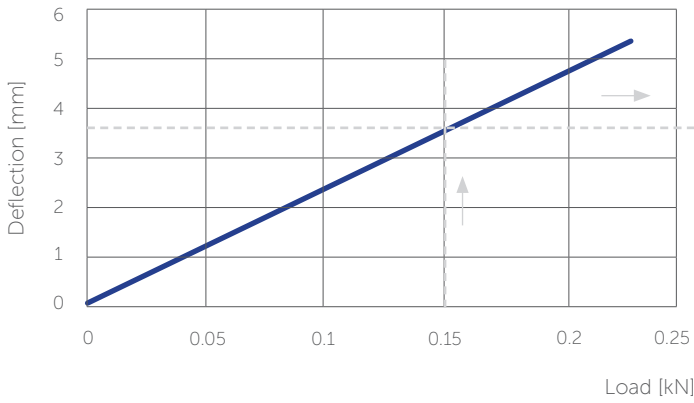
1. Electrogalvanized flexible steel element
2. Resilient pad
3. Safety for over compression
4. Clearance hole of 5 mm for screws
5. Self-adhesive strip for initial placement



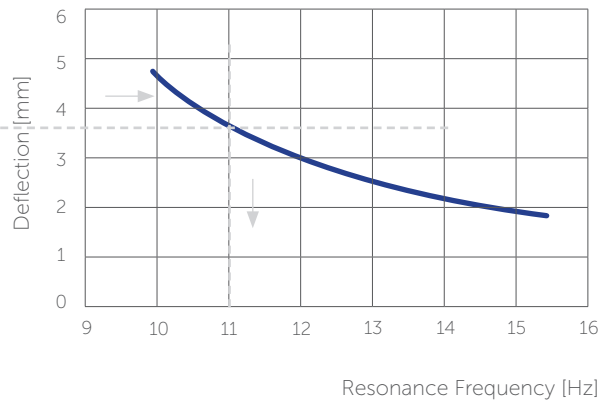
To assess what centering, fixing or load capacity related options Stravilink QRC has, CDM Stravitec engineers will need the following information:


- The weight and construction of the supported wall or ceiling - this will determine the type of the base isolation strip required
- The weights and support locations of any items supported off the wall or ceiling (such as televisions etc)

Deflection as Function of Load

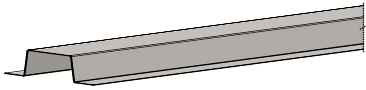


Relationship between Deflection and Resonance Frequency



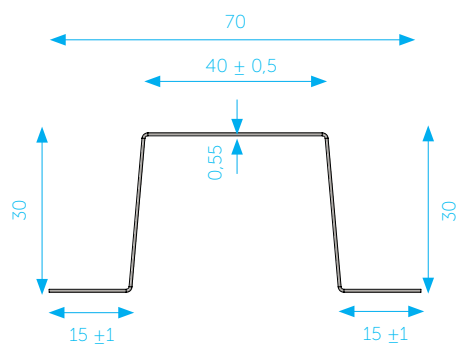
 The resonance frequency of a Stravilink QRC can be determined by its load. To start the calculation use the graph "deflection as function of load" this will provide the deflection at the specified load. Then moving horizontally to the right hand side plot "deflection as function of frequency" on which the corresponding resonance frequency can be found. As an example, the resonance frequency of the QRC loaded with 0.15 kN is determined. The corresponding deflection is 3.7 mm. The resonance frequency of the QRC at 3.7 mm deflection is 11 Hz.

EXTRAS

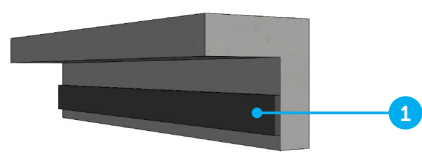


Furring channel

- 1. Furring channel of 3 m available
Material: DX51D + Z140
Weight: 1.44 kg per 3 m length



Note: All dimensions in millimeters (mm).

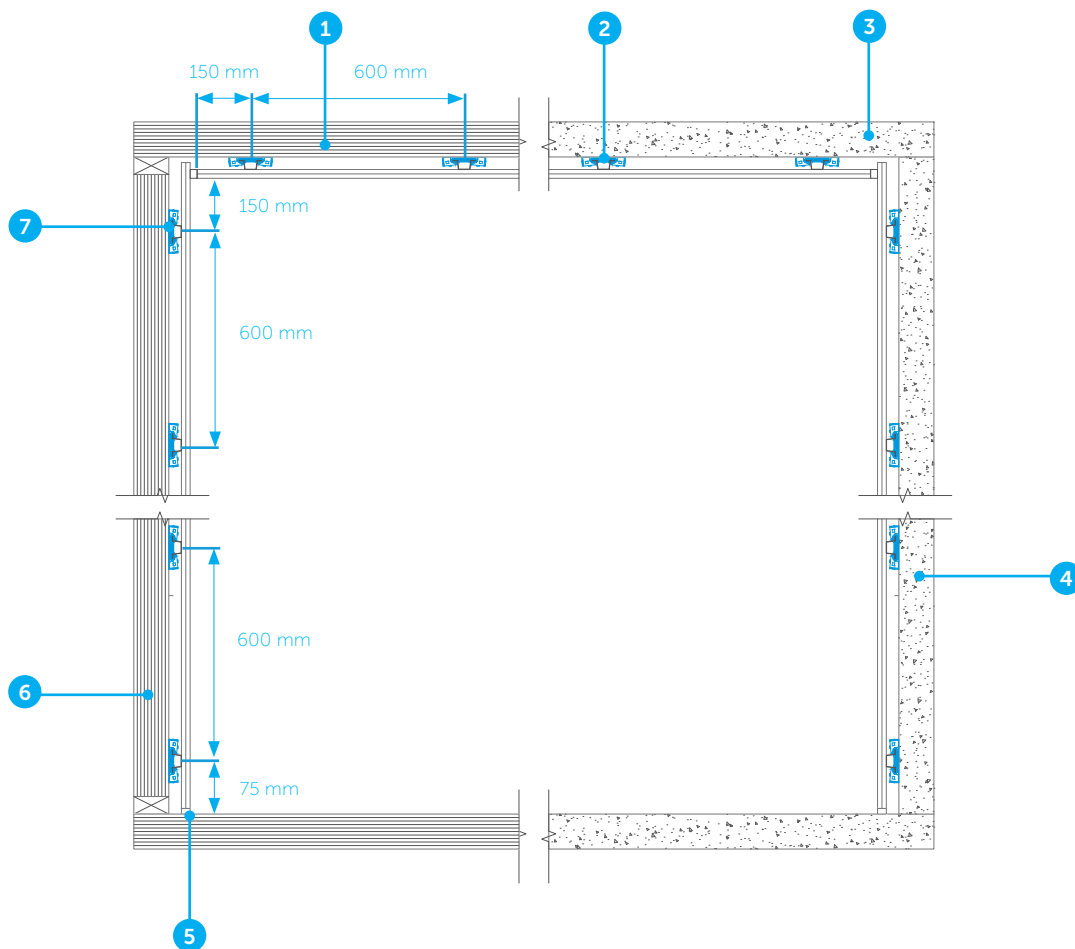


Perimeter Strip

- 1. Perimeter Strip to isolate the ceiling from the adjacent walls.

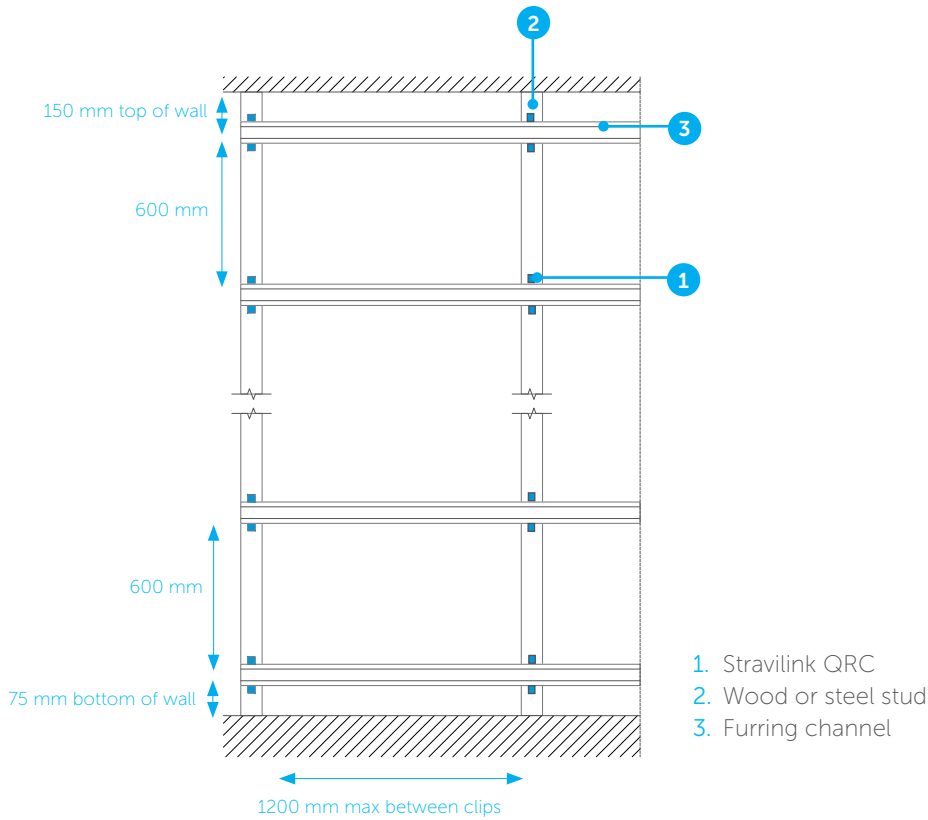


Typical wall and ceiling section with Stravilink QRC and furring:

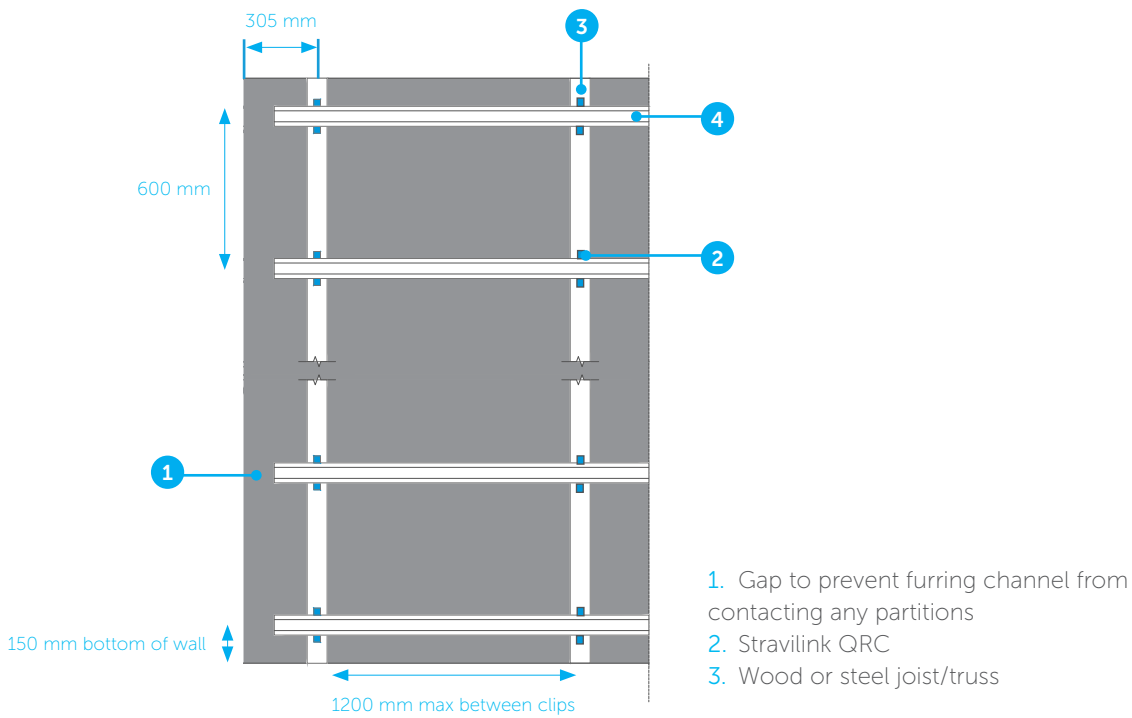


- 1. Wood ceiling
- 2. Stravilink QRC (ceiling configuration)
- 3. Concrete ceiling
- 4. Concrete wall
- 5. Non-hardening acoustical sealant or perimeter strip
- 6. Stud wall
- 7. Stravilink QRC (wall configuration)

Typical wall elevation with Stravilink QRC and furring channel:

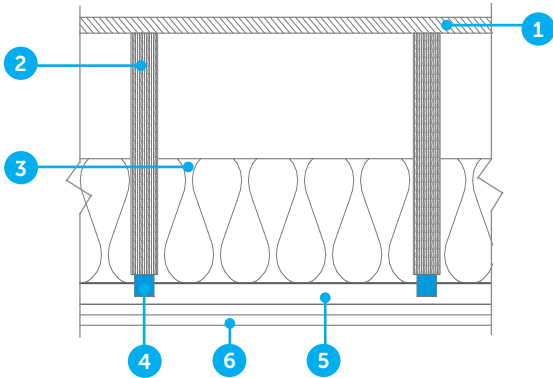


Typical ceiling layout with Stravilink QRC and furring channel:





Stravilink QRC on Ceiling Setup



Test Setup

1. 19 mm plywood
2. 38 mm x 250 mm wood joist
3. 150 mm fiberglass batt insulation
4. Stravilink QRC
5. 22 mm metal furring channel
6. 2 layers 15 mm plasterboard

R_w

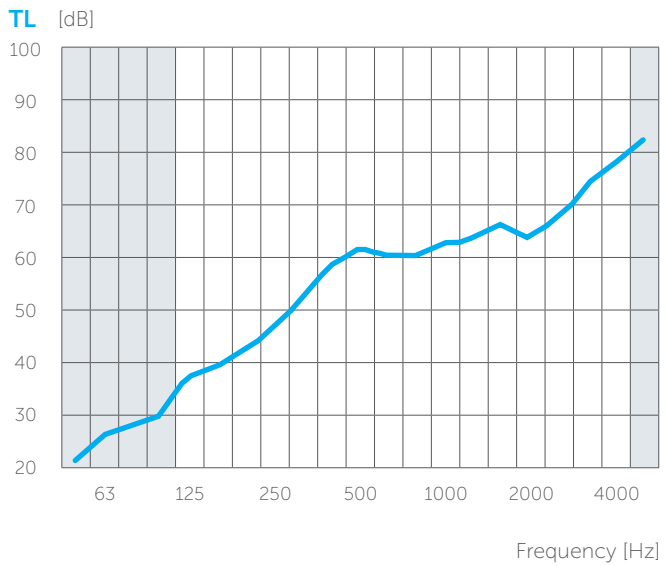
$L_{n,w}$

59 dB

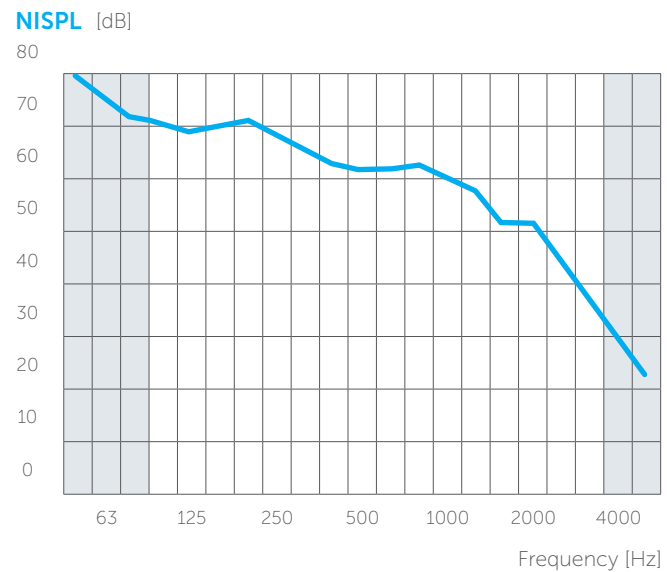
58 dB

Laboratory report available upon request
Test Report A1-021983-9

Frequency [Hz]	Airbone TL [dB]
50	21
63	26
80	28
100	30
125	37
160	39
200	42
250	46
315	52
400	58
500	61
630	60
800	60
1000	62
1250	63
1600	66
2000	63
2500	67
3150	73
4000	77
5000	82

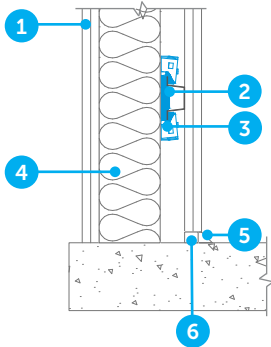


Frequency [Hz]	NISPL [dB]
50	75
63	70
80	67
100	66
125	64
160	65
200	66
250	64
315	61
400	58
500	57
630	57
800	58
1000	56
1250	53
1600	47
2000	47
2500	41
3150	32
4000	25
5000	18



R_w single figure rating determined in accordance with ISO 717-1 based on ASTM E90-09 measurements.
 $L_{n,w}$ single figure rating determined in accordance with ISO 717-2 based on ASTM E92-22 measurements.

Stravilink QRC on Wall Setup



Test Setup

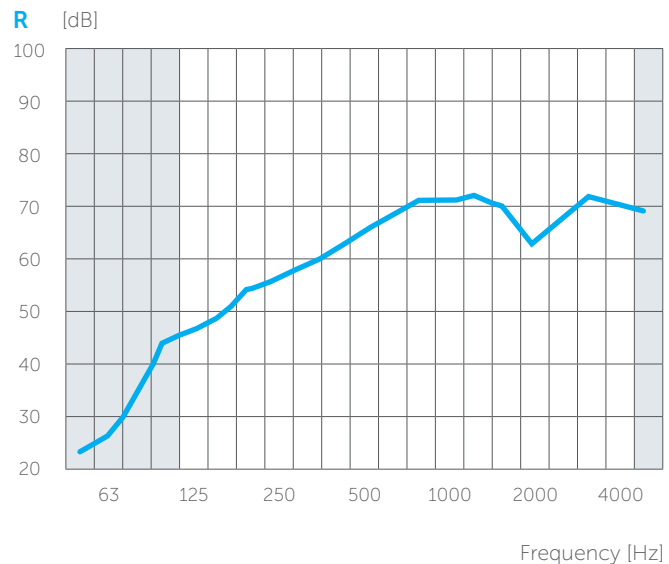
1. 2 x 15 mm plasterboard
2. 30 mm furring channel
3. Stravilink QRC
4. Metal stud wall of 90 mm with 50mm insulation
5. Flexible sealant joint
6. Perimeter Strip

R_w

66 dB

Laboratory report available upon request
Test Report 2012-45-046/9

Frequency [Hz]	Airbone TL (dB)
50	23
63	26
80	33
100	44
125	46
160	49
200	54
250	56
315	59
400	61
500	65
630	68
800	71
1000	71
1250	72
1600	70
2000	63
2500	67
3150	72
4000	71
5000	69



R_w single figure rating determined in accordance with ISO 717-1 based on ISO 10140-2 measurements.

DISCLAIMER

This information is accurate to the best of our knowledge at the time of issue. Information, data and recommendations provided are based on industry accepted testing and prior product usage. It is intended as descriptive of the general capabilities and performance of our products and does not endorse applicability for any particular project. We reserve the right to change products, performance, and data without notice. This document replaces all information supplied prior to the publication hereof.