

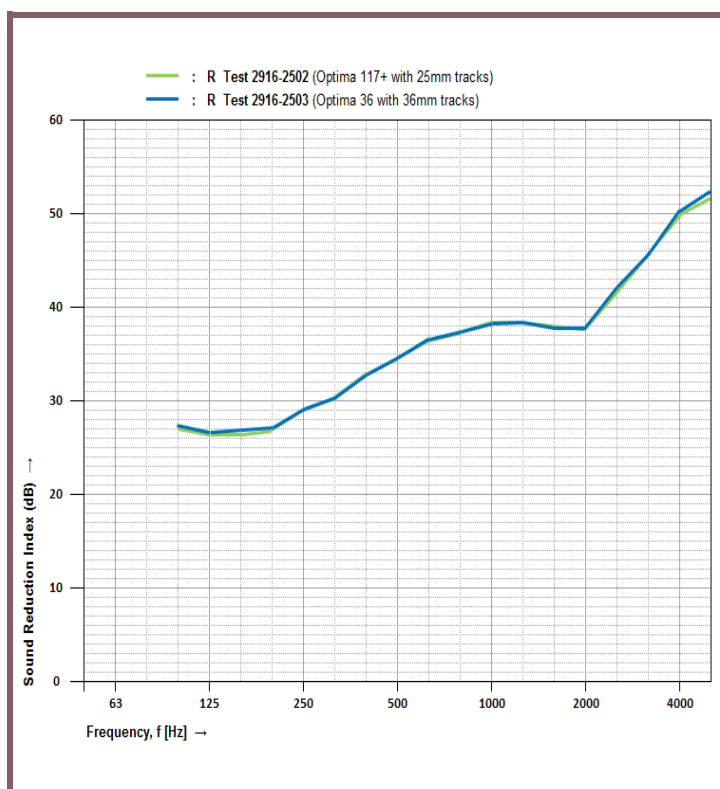
DATE: 04.11.16

Performance Criteria: Sound Insulation**Applicable Standards:** BS EN ISO 10140-2: 2010; ISO 717-1:1996**System:** Optima 117 PLUS and Optima 36**Configuration:** Single glazed in 12.8mm Acoustic Laminate

Description: Comparison between multi-module Optima 117 plus screen with 25mm wide perimeter glazing tracks glazed with 12.8mm acoustic laminate and an identical screen in Optima 36 using the same glass panels in 36mm wide perimeter glazing tracks. Glass sealed into tracks with PVC gaskets and between panels with Optima Nebula™ dry-joints.

Test Date: 01 & 02 November 2016**Test Report Number:** 2916-2502 (25mm tracks) and 2916-2503 (36mm tracks)**Test Specimen Area:** 8.64m²**Test Data:**

Frequency (Hz)	R (dB) 25mm Tracks	R (dB) 36mm tracks
100	27.0	27.3
125	26.4	26.7
160	26.4	26.9
200	26.9	27.1
250	29.0	29.2
315	30.2	30.4
400	32.8	32.9
500	34.5	34.8
630	36.3	36.6
800	37.3	37.2
1000	38.3	38.2
1250	38.3	38.3
1600	38.0	37.9
2000	37.6	37.9
2500	41.5	42.0
3150	45.7	45.7



Third Octave Band

It is demonstrated by these indicative tests, carried out using the same glass in the same test session that the test sample performed at least as well when glazed in 36mm tracks as with 25mm tracks throughout the entire spectrum.

On this basis the test evidence from sound insulation tests on the Optima 117 PLUS system can be considered valid for the Optima 36 system

Independently tested at UKAS accredited acoustic test laboratory

Issued By:
Position:

Technical Manager

To validate this certified performance the system installation must be carried out in strict accordance with the details summarised in the Optima Designer's Guide and Installer's Guide.