

# Welwyn Borough Council Chamber Welwyn Garden City



Architects: RPS

Main Contractor: Borrás Construction

Products: Laudescher LINEA 4.2.1

Finish: Oak – Clear Varnish

Completed: Summer 2016

## PROJECT INFORMATION

This greatly presented Council Chamber situated in Welwyn Garden City was designed by the architects at RPS with the internal construction completed by Borrás.

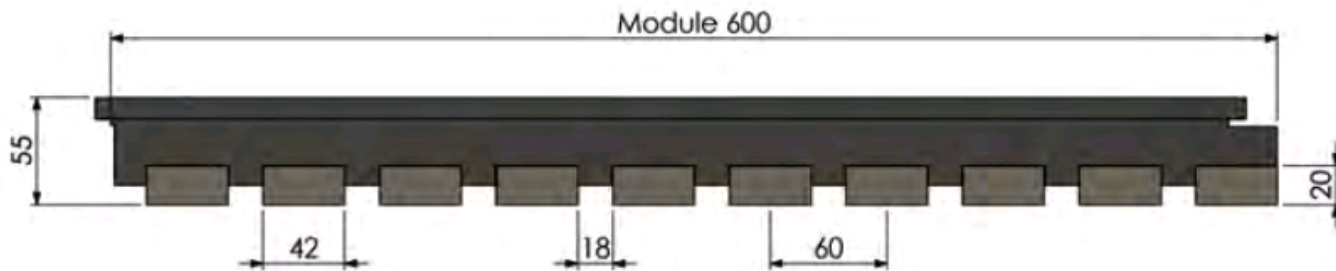
Installed for the aesthetic and acoustic properties this fantastic Laudescher LINEA 4.2.1 (aw-0.50, Absorption Class D, NRC-0.7) system was specified to combat a potentially hostile room where noise would normally become a problem. The one hundred person capacity chamber was fitted with high quality audio visual technology which meant the LINEA 4.2.1 needed to be able to not only absorb but diffuse varying noises, frequencies and sound pressure levels around the curvaceous perimeter wall.



## PROJECT IMAGES



ACOUSTIC PRODUCT SYSTEM USED



Product references		4.2.4	4.2.1
Slat section	Facing side	42 mm	42 mm
	Thickness	20 mm	20 mm
Spacing between slats		43.71 mm	18 mm
Slat distance		85.71 mm	60 mm
Total thickness		55 mm	55 mm
Average void area		51%	30%
Sound absorption data $\alpha_w^*$ / absorption class		0.75 / B	0.5 / D
Reaction to fire		B-s1,d0 / B-s2,d0	
Installation system		T24 main runner with black capping** D/C edge	

\*Test report, panel with insertion of mineral or stone wool tiles with black fleece facing

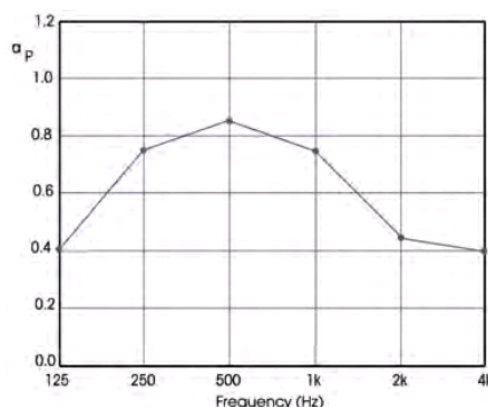
\*\*Moist and/or corrosive environments, cf. grid system manufacturer recommendations

Edging system:



Weight in Kg/m <sup>2</sup>	4.2.4	4.2.1
Pine	8.75	11.6
Douglas Fir	8.6	11.5
Oak	11	14.8

F(Hz)	$\alpha_p$
125	0.40
250	0.75
500	0.85
1000	0.75
2000	0.45
4000	0.40



Weighted index:

$$\alpha_w = 0.50 \text{ (LM)}$$

Absorption class:

Class D

According to ASTM C423:

$$\text{NRC} = 0.7$$

If you would like further information or have any questions please do not hesitate to get in contact:

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