

# Freeman's School Swimming Pool Surrey



Architects: Hawkins Brown

Main Contractor: Gilbert Ash

Products: Laudescher LINEA 2.4.3

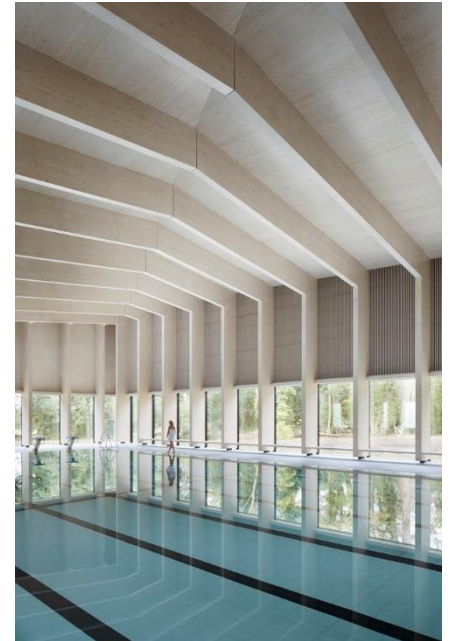
Finish: Pine PFEC 70% MIX

Completed: Spring 2018

## PROJECT INFORMATION

This six-lane competition pool was superbly designed by Hawkins Brown, the state of the art sustainable timber construction replaced the fire struck former building on site. The construction of the pool was led by fit out contractor Gilbert- Ash who utilised timber materials that provided an efficient, fast and carbon neutral construction to both the structure and internal finishes.

The timber construction had several challenges of the swimming pool environment. The Laudescher LINEA 2.4.3 (aw-0.90, Absorption Class-A, NRC-0.90) manufactured for its properties to not swell, absorb or mutate. Using the high quality acoustic properties Laudescher brings that absorbs the reflective sounds that will promote greater communication in the swimming pool environment. All vital for teaching and ultimately the safety of the students, teachers, and coaches.



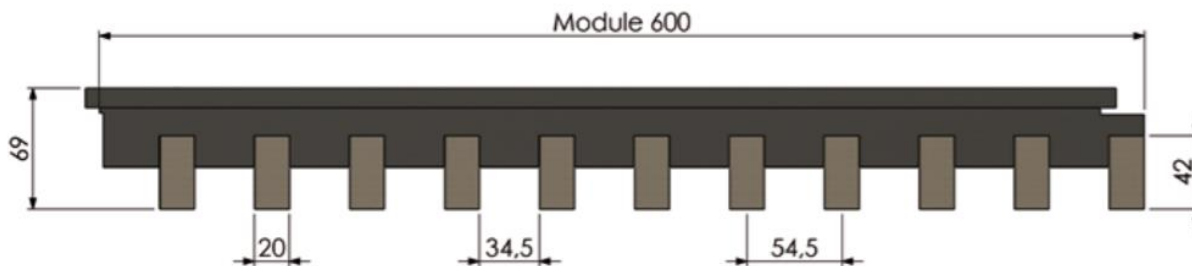
## PROJECT IMAGES



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## ACOUSTIC PRODUCT SYSTEM USED



Product references		2.4.3	2.4.5	2.4.6
Slat section	Facing side	20 mm	20 mm	20 mm
	Thickness	42 mm	42 mm	42 mm
Spacing between slats		34.54 mm	55 mm	65.71 mm
Slat distance		54.54 mm	75 mm	85.71 mm
Total thickness		69 mm	69 mm	69 mm
Average void area		63%	73%	77%
Sound absorption data $\alpha_w^*$ / absorption class		0.85 / B	0.85 / B	0.85 / B
Reaction to fire		B-s1,d0 / B-s2,d0 / D-s1,d0**		
Installation system		Direct mechanical fixing		

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

\*\* In accordance with the provisions of article AM4 (French regulation) "Vertical walls of unprotected open spaces and buildings" §2, taken from "Fire safety regulations for buildings open to the public"

Edging system:



Weight in Kg/m <sup>2</sup>	2.4.3	2.4.5	2.4.6
Pine	12.4	9.5	8.5
Douglas Fir	12.2	9.4	8.45
Oak	15.9	12.05	10.8

Weighted index:

$$\alpha_w = 0.90$$

Absorption class:

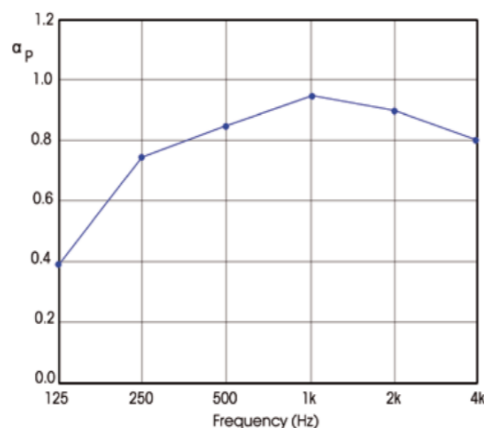
Class A

According to ASTM C423:

$$NRC = 0.90$$

Sound absorption has been measured as defined in standard ISO 354. Data related to sound absorption ( $\alpha_p$ ,  $\alpha_w$ , absorption class) has been calculated in compliance with standard ISO 11654 (Lauder LINEA + addition of acoustic materials).

F(Hz)	$\alpha_p$
125	0.40
250	0.75
500	0.85
1000	0.95
2000	0.90
4000	0.80



If you would like further

information or have any questions please do not hesitate to get in contact:

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