

Conference Room, Ivry-sur-Seine - France

To meet excellent levels of intelligibility



Design & Intelligibility



Description

- A new conference room designed to meet optimal intelligibility.
- A strong accent on design: integrated services for video, an innovative lighting setup optimising energy consumption per m².

Constraints

The size of the room:

4 m x 7 m, intelligibility is difficult to overcome without amplified speech.

The ceiling height:

3.50 m, creates a large volume which makes intelligibility a real challenge.

A glass wall: translates into an acoustically reflective surface that could have a negative bearing on speech intelligibility.



Solutions

- An **Ultima ceiling** provides good balance between sound absorption and sound attenuation.
- **4 Orcal Canopies** reduce the scale of the room and, combined with low background noise levels, optimise speech intelligibility conditions.

Not only do the Canopies **act as acoustics baffles**, they also **improve lighting reflectance** with the Extra Microperforated finish enhancing lighting efficiency.

- **The convex Canopies** were used to **support the video projection system**, therefore concealing the projector, associated wires and maintaining the clean aesthetic look of the room.
- **An amplified i-ceilings sound panel**, integrated in the 600 x 600 Ultima tile to relay audio from the video projector.



Ultima & Orcal Canopy

Contractor
C2P, and JTO



Design Architect
Know

Armstrong Solution
Orcal Canopy & Ultima

Orcal Canopy

Extra Microperforated
with enclosed pad



Orcal



1.24 Sabine/m² (1000 Hz)



≈ 85%



B-s2, d0 (EN 13964:2004)



90% RH

Ultima



Ultima



$\alpha_w = 0.70$



37 dB



≈ 90%



Euroclass A2-s1, d0



95% RH



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