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2012



INTRO

Today, Armstrong continue to offer you a harmonious balance between aesthetics and performance through the use of integrated, high-tech and perfectly adapted ceiling and wall solutions. Our mission is to provide you with the most practical, attractive, reliable, cost-effective and environmentally friendly products possible.

That also means giving you plenty of choice. In our portfolio, you'll find all types of materials, from mineral and metal to wood, resin, and all type of shapes, from monolithic to discontinuous ceilings. And you'll discover our most innovative systems such as Tech Zone.

Thanks to our comprehensive approach, we've been consistently delivering stunning and technically challenging projects across Europe.

Please take a minute to look through the latest A-Book, enjoy our innovation project collection, and let us know if we can help make your next project a success!

Armstrong Building Products

LINEAR ENERGY SAVING FLEXIBILITY

SAFE & HEALTHY ENVIRONMENT

ISLAND CEILINGS

DISCONTINUOUS MONOLITHIC

COMFORT & WELL BEING

VISUAL & ACOUSTICAL COMFORT

RETROFIT SOLUTIONS

THERMAL MASS - GREEN BUILDING

TRENDS

CUSTOMISED SPACE

RENOVATION



ATMOSPHERE

MULTI-FORMAT
MULTI-MATERIAL



MULTI-SHAPE



SUSTAINABILITY





OFFICE

The message is loud and clear: office employees have long considered the intrusion of unwanted noise as one of the leading sources of workplace dissatisfaction. A balanced acoustical design is the key to keeping noise levels down and work performance up.

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How to improve the acoustic, visual and ergonomic comfort of an open plan radio studio?

ISLAND CEILING SOLUTION Optima Canopy Hexagon

OWNER | BG Radio Sofia
 INTERIOR DESIGNER | Aleksander Nikolov, Svetoslav Aleksandrov - City Design Development Ltd
 CEILING CONTRACTOR | Rodeks Products Ltd.

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ● ○
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ●

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ● ○ ○

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA



How to combine different shapes to strike the perfect balance between design and acoustics?

ISLAND CEILING SOLUTION

Optima Canopy Circle,
Concave, Convex,
Ultima Canopy

| | |
|-----------|--------------------------------|
| OWNER | AIG/LINCOLN CZ s.r.o. |
| ARCHITECT | Cigler Marani Architects, a.s. |
| AREA | 500 m ² |

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ● ● |
| CONFIDENTIALITY | ● ● ○ |
| CONCENTRATION | ● ● ● |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ● |
| LIGHT REFLECTANCE | ● ● ● |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ● ○ |
| THERMAL MASS | ● ○ ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA



How to create a pleasant and sustainable workspace?

ISLAND CEILING SOLUTION

Axiom KE Canopy with Nevada tiles

OWNER Technische Werke
Kaiserslautern
Versorgungs-AG

ARCHITECT Ingenieurbüro Dipl.-
Ing. Klaus Mayer

CEILING CONTRACTOR Müller Metall-Trockenbau
Omega

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
CONFIDENTIALITY ● ○ ○
CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
THERMAL MASS ● ● ●

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

11

Architects Office OeverZaaijer

THE NETHERLANDS



OWNER OeverZaaijer Architectuur en Stedebouw - Amsterdam

ARCHITECT OeverZaaijer Architectuur en Stedebouw - Amsterdam

CEILING CONTRACTOR AK Concept BV - Zaltbommel



How to minimise reverberation times in a glass-partitioned office?

MINERAL SOLUTION

Perla Planks SL2, Bandraaster Profile

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ○
 CONFIDENTIALITY ● ● ○
 CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 13



INTERVIEW

“The design reflects the fantastic location along the water front. The daylight can penetrate deep into the building thanks to glass panels which are one storey high, the glass interior partition walls and the atrium in the heart of the building. In addition, the Perla OP ceiling tiles offer the right acoustical balance to provide occupant comfort and well being.”

OeverZaaijer, Architecture and Urbanism – Amsterdam, The Netherlands



MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA



How to transform a public buildings reception into a welcoming, inviting space?

ISLAND CEILING SOLUTIONS

**Ultima Canopy Concave,
Infusions Canopy
Channelled Mist**

OWNER | Shell Global Solutions
International BV -
Amsterdam

ARCHITECT | Fokkema & Partners
Architecten - Delft

CEILING
CONTRACTOR | URA - Alkmaar

INTERIOR
DESIGNER | Coors Interieurbouw -
Ridderkerk

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
CONFIDENTIALITY ● ● ○
CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ●
LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
THERMAL MASS ● ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

17

Gdynia Maritime Agency

POLAND



OWNER | Morska Agencja Gdynia sp. z o.o.
 INTERIOR DESIGNER | Michał Byczkowski
 AREA | 700 m²



How to design a welcoming, quiet reception area?

MINERAL SOLUTION

Ultima, Dune tiles, Optima Canopy Convex, Axiom Profiles

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ● ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM COLLECTIVE ROOM **RECEPTION AREA** INDIVIDUAL ROOM LEISURE ROOM SPECIFIC AREA CIRCULATION AREA 19



How to optimise the acoustics in a glass-partitioned meeting-room and reception hall?

MINERAL SOLUTION Ultima Planks SL2

OWNER | PZU S.A.
INTERIOR DESIGNER | Jarniewicz Architekci

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ●
CONFIDENTIALITY ● ● ○
CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

21

Jarošova Office Centre

SLOVAKIA



How to deliver a harmonious ambience while ensuring acoustic comfort in a reception and waiting area?

ISLAND CEILING SOLUTION Optima Canopy Circle

| | |
|-----------|---------------------------|
| OWNER | GTC JAROSOVA OC s.r.o. |
| ARCHITECT | MOROCZ_TACOVSKY s.r.o. |
| AREA | Approx 120 m ² |

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ○ ○ |
| CONFIDENTIALITY | ● ○ ○ |
| CONCENTRATION | ● ● ● |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ● |
| LIGHT REFLECTANCE | ● ● ● |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ● ● |
| THERMAL MASS | ● ● ● |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA



INTERVIEW

“Jarosova Office Centre’s interior lobby consists of a system of suspended circle shaped elements located under a suspended ceiling. We created a double effect by using lighting in the space above the circle canopies. The circular finish of the ceiling creates a comfortable, trendy atmosphere. We chose Armstrong canopies as they were really easy to install and the service we received from the Armstrong team was excellent”.

Adrian Mórocz, Michal Tačovský, architects.

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

25

Raiffeisen Bank Sarajevo

BOSNIA AND HERZEGOVINA



OWNER | RBA Sarajevo
 ARCHITECT | OSNAP
 CEILING CONTRACTOR | Unioninvest, Sarajevo
 AREA | Approx 4000 m²



How can metal ceilings maximise the visual and acoustic performance of a space?

METAL SOLUTION

Clip-In, Lay-In plain and standard perforation

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ● ○
 CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ○ ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 27

Telefonica Office

SPAIN



How to create a ceiling that mirrors the shape of a building and enhances the acoustics in an open plan space?

MINERAL SOLUTION

**Dune dB planks,
Bandraster Profile**

| | |
|-----------------------|--|
| OWNER | Telefonica SA |
| ARCHITECT | EMBA_Estudi Massip-Bosch Arquitectes |
| CEILING CONTRACTOR | IMAD |
| AREA | 34000 m ² |

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ○ ○ |
| CONFIDENTIALITY | ● ● ● |
| CONCENTRATION | ● ● ○ |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ○ |
| LIGHT REFLECTANCE | ● ● ○ |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ● ○ |
| THERMAL MASS | ○ ○ ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 29

Advent Underwriting, London

UNITED KINGDOM



ARCHITECT | Artillery Architecture & Interior Design
 MAIN CONTRACTOR | Chorus Group Ltd
 CEILING CONTRACTOR | Rox Interiors Ltd
 AREA | 2100 m²



How to improve the acoustic, visual and ergonomic comfort of meeting rooms?

ISLAND CEILING SOLUTION

Optima Canopy Concave, Convex & Large Rectangle

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ○ ○
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ●

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ● ● ○

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

Bishopsgate Institute

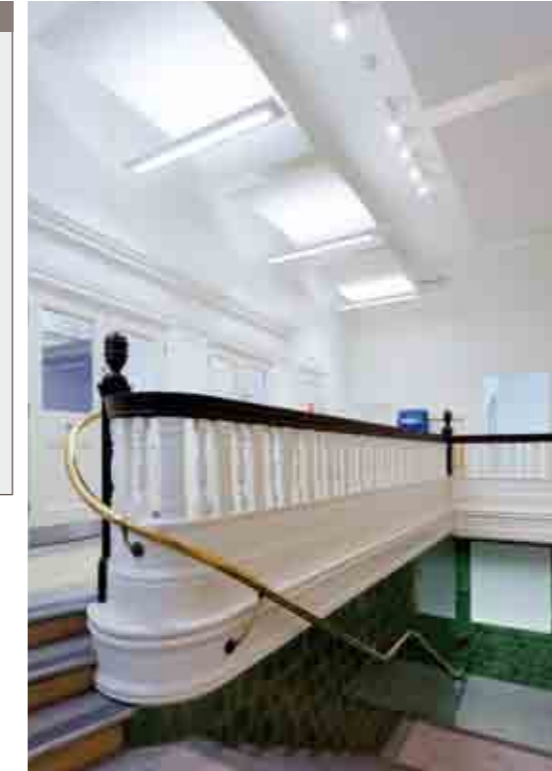
UNITED KINGDOM



INTERVIEW

“The building is now much quieter within the general circulation areas, and within the Great Hall, the wall-mounted Optima Canopies have contributed to successfully modified reverberation times for both speech and music. These look very effective. We also successfully prototyped cutting circular apertures in the flat canopies to allow the fitting of recessed luminaries”.

Christopher Palmer, architect,
Sheppard Architect.



How to satisfy the acoustic and design requirements of various spaces using a mixture of island ceiling shapes & textures?

ISLAND CEILING SOLUTION

**Ultima Canopy Concave,
Optima Canopy Square
and Small Rectangle**

OWNER | Bishopsgate Institute
ARCHITECT | Sheppard Architects
MAIN CONTRACTOR | Neilcott Construction Ltd
CEILING CONTRACTOR | PCC Interiors Ltd


ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ○
CONFIDENTIALITY ● ○ ○
CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ●
LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
THERMAL MASS ● ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

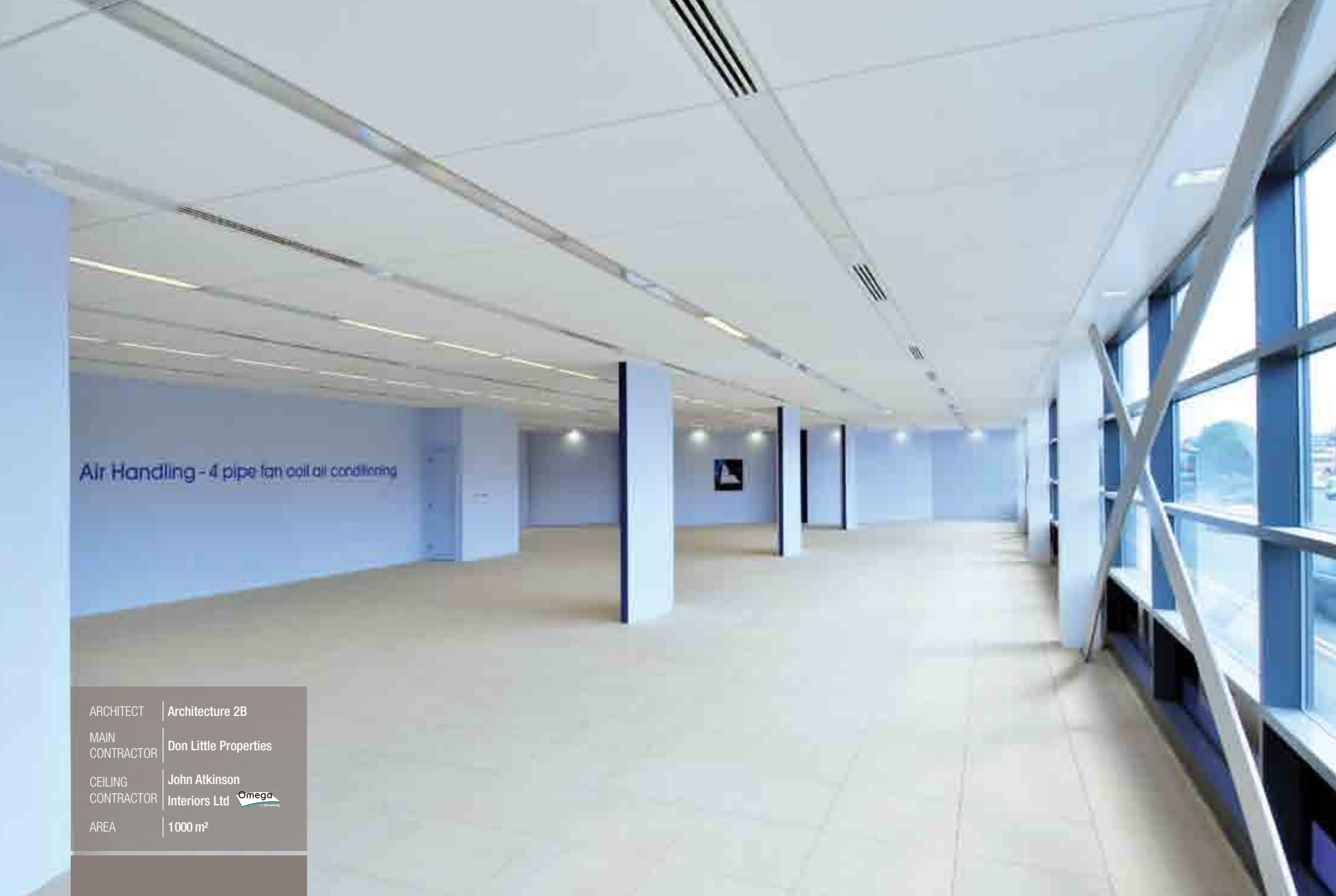
LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 33

Indigo Blu Office

UNITED KINGDOM



Air Handling = 4 pipe fan coil air conditioning

ARCHITECT | Architecture 2B
 MAIN CONTRACTOR | Don Little Properties
 CEILING CONTRACTOR | John Atkinson Interiors Ltd 
 AREA | 1000 m²

INTERVIEW

“Armstrong’s TECH ZONE system is something completely different. Once we saw it we knew we had found what we were looking for, we all liked it. Then once we found out no other new-build commercial project had used it, we had to have it!”

“It is a very crisp, linear design for a very modern building. We like the tidiness of it, the fact that you can integrate the service elements”.

Jon Wood, project director, Don Little Properties.



How to deliver a contemporary, monolithic, linear look, integrate service elements and enhance acoustics?

MINERAL & METAL SOLUTION

Tech Zone with Optima, Metal tiles & Interlude Grid Partners: Trox & Zumtobel

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ●

VISUAL COMFORT

DESIGN ● ● ●
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

35



RETAIL & LEISURE

*Keep the spirit of the brand
alive with ceilings that
reflect the personality
of your space...
the coolness of metal,
the warmth of wood...
Check out today's
most fashionable ceiling
products for a look
that's all your own.*

CRO - ZAGREB LIBRARY 38

How to use natural textures and harmonious colours to design a space that requires concentration?

FR - ARENA CENTRE, MONTELLIER 40

How Tech Zone provides the perfect acoustic and service integration solution to an open plan space for seeing, listening and talking?

HU - KITCHEN FACTORY SHOWROOM 42

How to make customers feel welcome and comfortable when they walk into your shop?

IE - AVIVA STADIUM 44

How to simultaneously achieve high standards of hygiene and occupant well being in a stadium?

PT - SHOPPING CENTRE ANADIA 46

How to provide acoustical comfort and retain a shopping centre's original design features?

SP - ALBARAMA RESTAURANT 48

How to maximise your customers' acoustical comfort while retaining a restaurant's original design features?

SP - LLIÇA SUPERMARKET 50

How to create a custom look with service integration using standard components?

Zagreb Library

CROATIA

How to use natural textures and harmonious colours to design a space that requires concentration?

WOOD SOLUTION
Madera Lime Tree A12 perforation



OWNER | University of Zagreb, Faculty of Philosophy
 ARCHITECT | Boris Ileković
 CEILING CONTRACTOR | Team d. d.
 AREA | 2800 m²

© Vulin Ileković - arhitekti

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ● ○
 CONCENTRATION ● ○ ○

VISUAL COMFORT

DESIGN ● ● ●
 LIGHT REFLECTANCE ● ○ ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ○ ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

39



OWNER | ENJOY Montpellier
 ARCHITECT | A+ Architectures
 CEILING CONTRACTOR | CUARTERO SAS
 AREA | 1000 m²

Arena Centre, Montpellier

FRANCE

INTERVIEW

“The more complicated the design, the more interesting it is. Grand Salle Arena is such a spectacular project and we are very proud of it! In total, 7000 m² of Armstrong Optima ceilings were installed in this new multipurpose space in Montpellier. Projects like this one only come around every five years at best. The most demanding area was the reception hall and VIP area’s which totalled 900m². The project manager wanted to move away from using conventional systems and preferred to integrate service elements such as lighting & diffuser elements in these areas. The aesthetic visual was also a critical feature that needed to be maintained. The Armstrong TECH ZONE system succeeded in providing a unique, customised look on this prestigious project”.

Philippe Cervantes, architect,
 A+ Architecture.



How Tech Zone provides the perfect acoustic and service integration solution to an open plan space for seeing, listening and talking?

MINERAL SOLUTION

Tech Zone solution, with Optima tiles and Interlude Grid
 Partners: Aldes & Regent

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ●

VISUAL COMFORT

DESIGN ● ● ●
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 41

Kitchen Factory Showroom

HUNGARY



How to make customers feel welcome and comfortable when they walk into your shop?

MINERAL SOLUTION

Axiom C Canopy with Ultima Vector, Ultima Canopy

| | |
|-----------|--------------------|
| OWNER | Kitchen Factory |
| ARCHITECT | Armstrong e-model |
| AREA | 170 m ² |

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ○ ○ |
| CONFIDENTIALITY | ● ○ ○ |
| CONCENTRATION | ● ● ○ |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ○ |
| LIGHT REFLECTANCE | ● ● ● |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ● ○ |
| THERMAL MASS | ● ○ ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

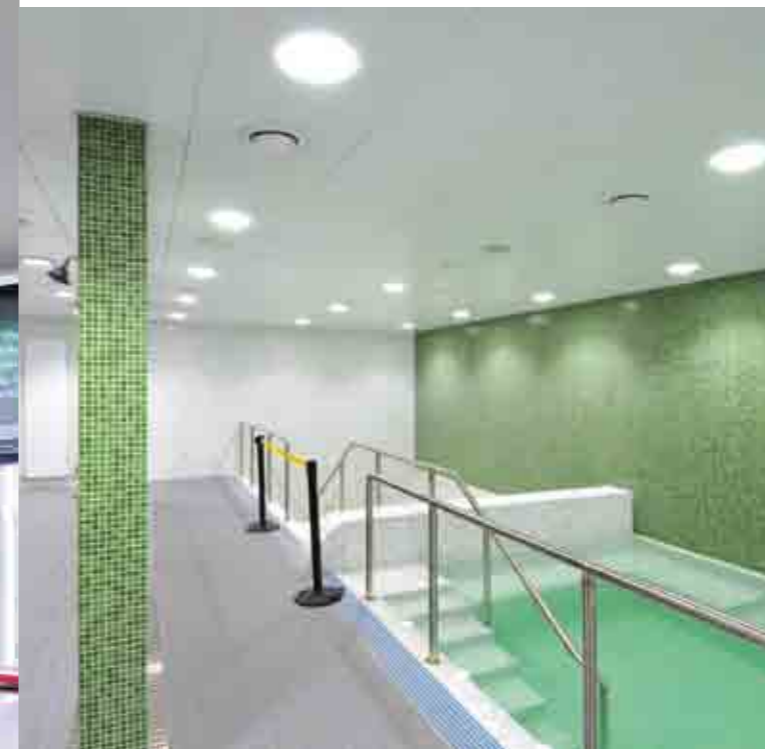
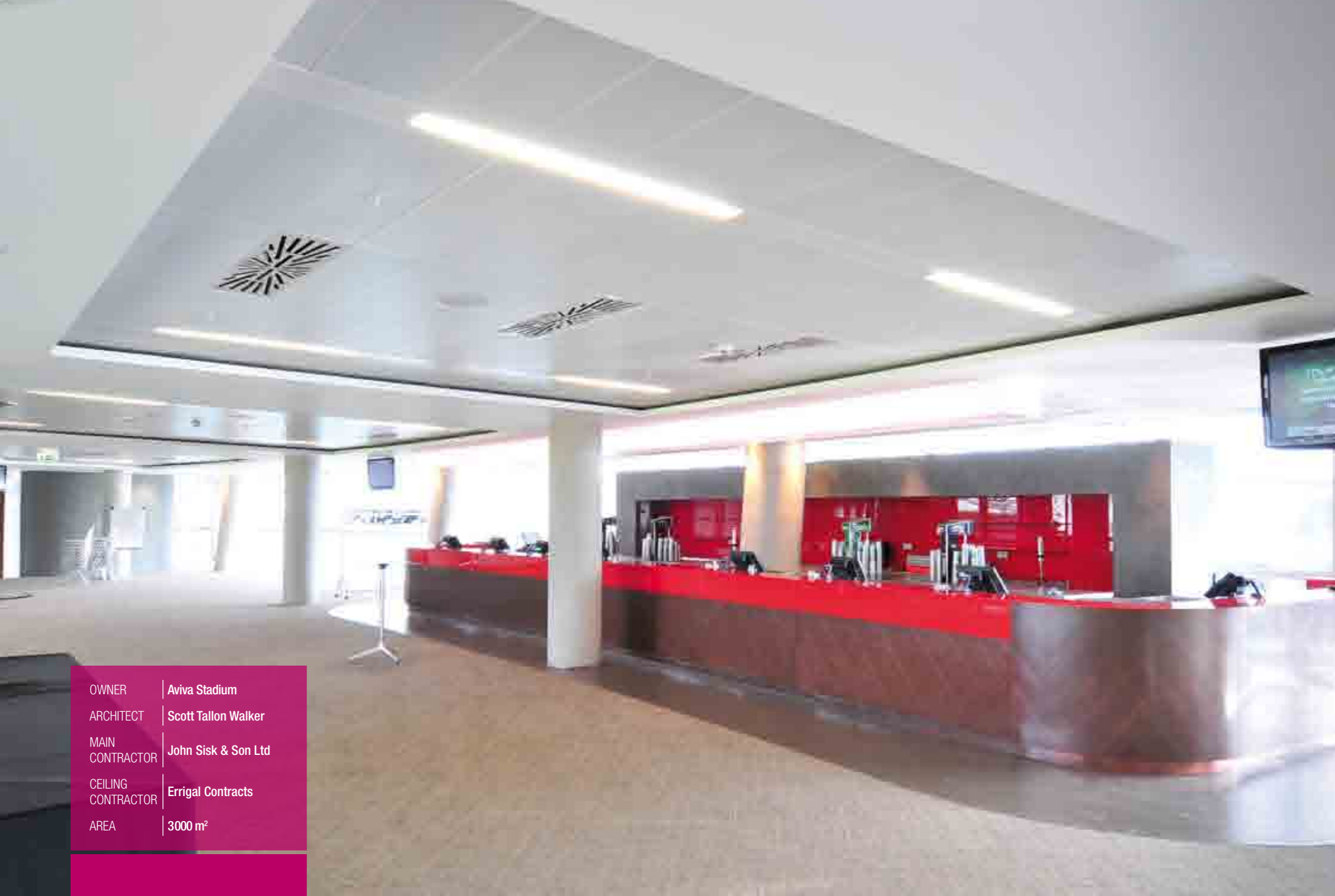
LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 43

Aviva Stadium

IRELAND



How to simultaneously achieve high standards of hygiene and occupant well being in a stadium?

METAL SOLUTION

Lay-In Axal Vector & T-Clip F, Q-Clip

OWNER | Aviva Stadium
 ARCHITECT | Scott Tallon Walker
 MAIN CONTRACTOR | John Sisk & Son Ltd
 CEILING CONTRACTOR | Errigal Contracts
 AREA | 3000 m²

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ● ○
 CONCENTRATION ● ○ ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ○ ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ● ● ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

45

Shopping Centre Anadia

PORTUGAL



OWNER | Centro Comercial Anadia
 ARCHITECT | Rodolfo Luis Alves de Oliveira Machado
 CEILING CONTRACTOR | Uralusa



How to provide acoustical comfort and retain a shopping centre's original design features?

ISLAND CEILING SOLUTION Optima Canopy Rectangular

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ○ ○
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ●

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ●
- THERMAL MASS ● ● ●

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM **COLLECTIVE ROOM** RECEPTION AREA INDIVIDUAL ROOM LEISURE ROOM SPECIFIC AREA CIRCULATION AREA **47**

Albarama Restaurant

SPAIN



How to maximise your customers' acoustical comfort while retaining a restaurant's original design features?

ISLAND CEILING SOLUTION

Ultima Canopy Concave

OWNER | CASA GARCÍA HERRERA, S.L.
 ARCHITECT | Arancha Mato Pérez
 INTERIOR DESIGNER | Ana Mato
 CEILING CONTRACTOR | AISLUX ANDALUCÍA, S.A.

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ○ ○
- CONFIDENTIALITY ● ● ○
- CONCENTRATION ● ○ ○

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ● ● ●

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

Lliça Supermarket

SPAIN



How to create a custom look with service integration using standard components?

ISLAND CEILING SOLUTION

Optima Canopy Hexagon with custom colours

OWNER | Sorli Discau
 ARCHITECT | Oscar Holgado
 CEILING CONTRACTOR | IMAD

ACOUSTICAL COMFORT

INTELLIGIBILITY ○ ○ ○
 CONFIDENTIALITY ○ ○ ○
 CONCENTRATION ● ● ●

VISUAL COMFORT

DESIGN ● ● ●
 LIGHT REFLECTANCE ● ○ ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ●
 THERMAL MASS ● ● ●

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 51



TRANSPORT

*Whether your ceilings
float, stretch or curve,
we can take you
leagues ahead.
Browse our metal,
wood ceilings
and walls portfolios
to find the right mix
of comfort, style
and security
for your space.*

UK - BIRMINGHAM AIRPORT

How to offer travellers a pleasant journey focusing on aesthetics, acoustics and service integration?

54

UK - EAST LONDON LINE STATIONS, LONDON

How to enhance a commuters daily travel experience by concealing cables and other service facilities in a train station?

56

UK - WOLVERHAMPTON BUS GARAGE

How to make a statement with the ceiling design at a bus garage?

60

Birmingham Airport

UNITED KINGDOM



| | |
|--------------------|--------------------------|
| OWNER | Birmingham Airport |
| ARCHITECT | D5 Architects LLP |
| MAIN CONTRACTOR | Morgan Sindall Group PLC |
| CEILING CONTRACTOR | Miles Industries Ltd |
| AREA | 4000 m ² |



How to offer travellers a pleasant journey focusing on aesthetics, acoustics and service integration?

METAL SOLUTIONS

Trapezoidal Unperforated Hook-On R-H 200 Tiles, Cello C64

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ○ ○ |
| CONFIDENTIALITY | ● ○ ○ |
| CONCENTRATION | ● ○ ○ |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ● |
| LIGHT REFLECTANCE | ● ○ ○ |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ○ ○ |
| THERMAL MASS | ● ● ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

East London Line Stations, London

UNITED KINGDOM



Dalston Junction Station Ticket Hall

| | |
|--------------------|--|
| OWNER | TFL Transport for London |
| ARCHITECT | Robinson, Kenning & Gallagher |
| MAIN CONTRACTOR | Mansell for Balfour Beatty and Carillion Joint Venture |
| CEILING CONTRACTOR | Orange Apple Ltd |
| AREA | 2500 m ² |



Haggerston Station Ticket Hall

How to enhance a commuters daily travel experience by concealing cables and other service facilities in a train station?

METAL SOLUTION B-H 300 (Fastrak)

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ○ ○ |
| CONFIDENTIALITY | ● ● ○ |
| CONCENTRATION | ● ○ ○ |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ● ○ |
| LIGHT REFLECTANCE | ● ● ● |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ○ ○ |
| THERMAL MASS | ○ ○ ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ● ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 57



INTERVIEW

“The Armstrong Fastrack System is Section 12 compliant which was a critical performance criteria for the East London Line project. It is versatile and combines functionality with stylish simplicity. It was easy to install, allowed for integration of lighting and speaker systems, the security clips meant the tiles were held down securely and were able to withstand wind pressure. We are very pleased with the final finish”.

Kenny Smith, Orange Apple Ltd.



Shoreditch High Street Station

Haggerston Station

Shoreditch High Street Ticket Hall

Wolverhampton Bus Garage

UNITED KINGDOM



How to make a statement with the ceiling design at a bus garage?

METAL SOLUTION

Metal Square Edge Trapezoidal Planks, Micro Perforation, with acoustical fleece and black gasket

OWNER | Centro
 ARCHITECT | Austin Smith Lord
 MAIN CONTRACTOR | BAM Construction
 CEILING CONTRACTOR | CG Reynolds

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ○ ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ● ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA **61**



EDUCATION

Acoustic design is the key to hearing four out of four words. Teachers can't teach and students can't learn in noisy classrooms. The quality of the acoustic environment is vital to all students since they must be able to understand the teacher to learn effectively. Selection of the proper acoustical treatments can play a critical role in increasing the signal-to-noise ratio and reducing reverberation time.

FR - ROANNE SCHOOL **64**

How to help students stay fully focused on what the teacher has to say?

NL - ROC VEENENDAAL SCHOOL **66**

How to satisfy all the sound and design criteria of diverse spaces using various ceiling textures?

SP - CNIC UNIVERSITY CAFETERIA **68**

How to reduce noise interference and create a stylish, comfortable university cafeteria?

SP - LAS TABLAS SCHOOL **70**

How to optimise learning conditions by choosing the right acoustic ceiling solutions?

UK - BOLSOVER SCHOOL **72**

How to provide the best acoustic design solution using ceiling and wall solutions through various spaces in a school, to optimise teaching conditions?

IE - CLONGOWES COLLEGE **76**

How to optimise acoustics and meet the design challenges of a school environment?

UK - HARTON TECHNOLOGY COLLEGE **78**

How to provide optimal acoustic solutions to an open plan working and teaching area?

Roanne School

FRANCE



How to help students stay fully focused on what the teacher has to say?

MINERAL SOLUTION

Ultima OP tiles

| | |
|--------------------|--------------------------------------|
| PROJECT | Groupe Scolaire le Mayollet |
| ARCHITECT | KEOPS ARCHITECTURE |
| OWNER | Ville de Roanne |
| CEILING CONTRACTOR | PCC Plâtrerie Peinture Faux Plafonds |

ACOUSTICAL COMFORT

| | |
|-----------------|-------|
| INTELLIGIBILITY | ● ● ○ |
| CONFIDENTIALITY | ● ○ ○ |
| CONCENTRATION | ● ● ● |

VISUAL COMFORT

| | |
|-------------------|-------|
| DESIGN | ● ○ ○ |
| LIGHT REFLECTANCE | ● ● ● |

ENVIRONMENT BENEFIT

| | |
|------------------|-------|
| RECYCLED CONTENT | ● ● ○ |
| THERMAL MASS | ○ ○ ○ |

SAFE & HEALTHY

| | |
|-----------------|-------|
| ISO PERFORMANCE | ○ ○ ○ |
| CLEANABILITY | ● ○ ○ |

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

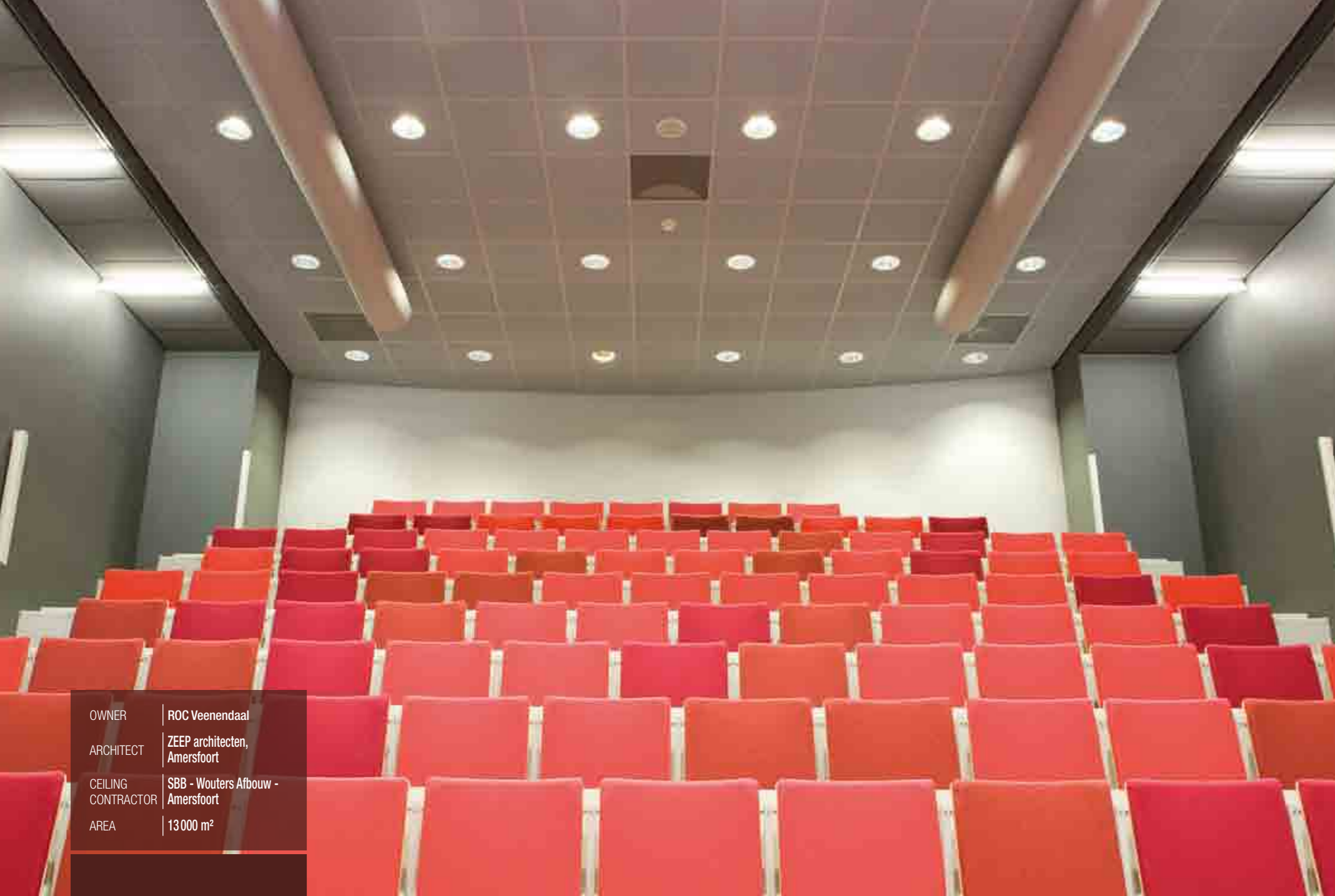
LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 65

ROC Veenendaal School

THE NETHERLANDS



How to satisfy all the sound and design criteria of diverse spaces using various ceiling textures?

MINERAL SOLUTION

**Sierra OP Board,
Nevada Colortone Pearl**

OWNER | ROC Veenendaal
 ARCHITECT | ZEEP architecten, Amersfoort
 CEILING CONTRACTOR | SBB - Wouters Afbouw - Amersfoort
 AREA | 13 000 m²

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ●

VISUAL COMFORT

DESIGN ● ● ●
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

67

CNIC University Cafeteria

SPAIN



How to reduce noise interference and create a stylish, comfortable university cafeteria?

MINERAL SOLUTION

Axiom C Canopy
with **Ultima OP tiles**

OWNER | Centro Nacional de Investigaciones Cardiovasculares
 ARCHITECT | JOSE LUIS POVO
 CEILING CONTRACTOR | CUBRANOR

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ●

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ● ● ●

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

Las Tablas School

SPAIN



OWNER | Consejería de Educación y Ciencia de Castilla La Mancha
 ARCHITECT | GRG Arquitectos
 MAIN CONTRACTOR | Barroso nava y Cia, S.A.
 AREA | 3500 m²



How to optimise learning conditions by choosing the right acoustic ceiling solutions?

MINERAL SOLUTION

Dune Max

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ● ○
- CONFIDENTIALITY ● ● ○
- CONCENTRATION ● ● ○

VISUAL COMFORT

- DESIGN ● ● ○
- LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ○ ○ ○

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

71

Bolsover School

UNITED KINGDOM



How to provide the best acoustic design solution using ceiling and wall solutions through various spaces in a school, to optimise teaching conditions?

MINERAL SOLUTIONS

Optima Canopy Square
& Small Rectangle, Dune Max,
Perla and Perla OP

ARCHITECT Maber Associates
 MAIN CONTRACTOR Bowmer & Kirkland
 CEILING CONTRACTOR Peveril Interiors 
 AREA 5000 m²

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ○
 CONFIDENTIALITY ● ● ○
 CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ● ○
 LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 73



INTERVIEW

“Armstrong were able to offer a wide range of ceiling materials and wall absorbers with variable sound absorption qualities, according to the rooms they were to be used in. Armstrong products came without any compromise in quality or aesthetic appearance. A variety of materials such as Optima Canopies, Dune Max, Perla & Perla OP tiles – were chosen for acoustics, cost and aesthetics respectively”.

Steve Basran, Maber Associates.



Clongowes College

IRELAND



How to optimise acoustics and meet the design challenges of a school environment?

MINERAL & WOOD SOLUTIONS

Optima Canopy Rectangular, Axiom C Canopy in black with Madera Cherry A12 perforation

| | |
|--------------------|---------------------------|
| OWNER | Clongowes Wood College SJ |
| ARCHITECT | MOLA Architecture |
| MAIN CONTRACTOR | BAM |
| CEILING CONTRACTOR | Mourme Ceilings Ltd |
| AREA | 10 000 m ² |

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ● ●
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ○

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ○ ○

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ● ● ●

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA

Harton Technology College

UNITED KINGDOM



ARCHITECT | Ryder Architecture
 MAIN CONTRACTOR | Carillion plc
 CEILING CONTRACTOR | Farpod Ltd
 AREA | 6000 m²



How to provide optimal acoustic solutions to an open plan working and teaching area?

ISLAND CEILING SOLUTION
Axiom C Canopy with Optima tiles

MINERAL SOLUTION
Dune Max, Parafon Hygien

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ● ●
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ○

VISUAL COMFORT

- DESIGN ● ● ●
- LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ● ● ○

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ● ○

MEETING ROOM **COLLECTIVE ROOM** RECEPTION AREA INDIVIDUAL ROOM LEISURE ROOM SPECIFIC AREA CIRCULATION AREA **79**

INTERVIEW

“Key areas such as the Learning Resource Centre have major acoustic considerations, so the ceiling design in these areas had to be carefully considered to achieve appropriate acoustic levels whilst maintaining the design vision of ‘open’ ceilings and exposed services. The Axiom C Canopy ‘rafts’ with Optima tiles allowed us to achieve this successfully and create a series of vibrant and informative spaces throughout the new development”.

Mark Spraggon, architect, Ryder Architecture.





HEALTHCARE

With relatively low installation and maintenance costs, the successful use of ceiling design solutions will also help provide physicians and patients with the correct level of speech privacy necessary to feel more comfortable in healthcare environments.

DE - HAUPTBAHNHOF ASCHAFFENBURG
How to meet demanding hygiene standards and improve patient well being?

84

DE - MEDICAL CENTRE
How to enhance the comfort and ambience of a health centre?

86

SK - HOSPITAL RUŽOMBEROK
How to limit the bio contamination between different spaces in a hospital?

88

UK - HODGE HILL PRIMARY CARE CENTRE
How to offer a multi space solution, while meeting demanding comfort and hygiene requirements?

90

Hauptbahnhof Aschaffenburg

GERMANY



OWNER Deutsche Bahn AG Bau- und Immobilienverwaltung Fäth

ARCHITECT Detlef Wildgruber Planungsbüro für Hochbau

CEILING CONTRACTOR Heinrich Bollmann GmbH Schreinerei Akustikbau

Omega gold



How to meet demanding hygiene standards and improve patient well being?

MINERAL SOLUTION

Dune MicroLook, Ultima Canopy Concave

ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ○ ○
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ○ ○

VISUAL COMFORT

- DESIGN ● ○ ○
- LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ○ ○ ○

SAFE & HEALTHY

- ISO PERFORMANCE ● ○ ○
- CLEANABILITY ● ○ ○

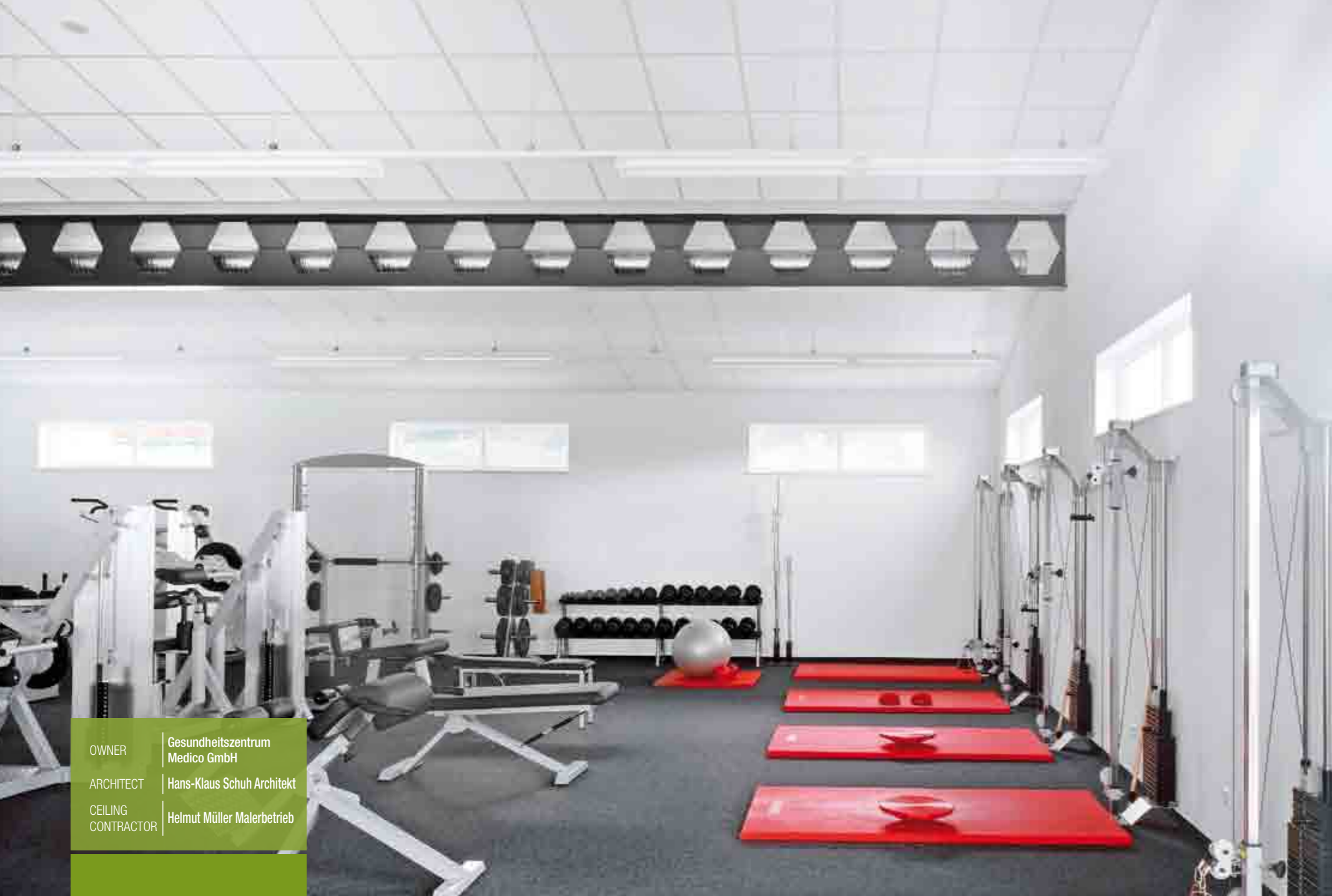
MEETING ROOM COLLECTIVE ROOM RECEPTION AREA **INDIVIDUAL ROOM** LEISURE ROOM SPECIFIC AREA CIRCULATION AREA 85

Medical Centre

GERMANY

How to enhance the comfort and ambience of a health centre?

MINERAL SOLUTION
Ultima OP, Ultima tiles



OWNER | Gesundheitszentrum Medico GmbH
 ARCHITECT | Hans-Klaus Schuh Architekt
 CEILING CONTRACTOR | Helmut Müller Malerbetrieb



ACOUSTICAL COMFORT

- INTELLIGIBILITY ● ○ ○
- CONFIDENTIALITY ● ○ ○
- CONCENTRATION ● ● ●

VISUAL COMFORT

- DESIGN ● ○ ○
- LIGHT REFLECTANCE ● ● ●

ENVIRONMENT BENEFIT

- RECYCLED CONTENT ● ● ○
- THERMAL MASS ○ ○ ○

SAFE & HEALTHY

- ISO PERFORMANCE ○ ○ ○
- CLEANABILITY ● ○ ○

MEETING ROOM COLLECTIVE ROOM RECEPTION AREA **INDIVIDUAL ROOM** LEISURE ROOM SPECIFIC AREA CIRCULATION AREA **87**

Hospital Ružomberok

SLOVAKIA



How to limit the bio contamination between different spaces in a hospital?

MINERAL SOLUTION
Bioguard Acoustic

OWNER Ústredná vojenská nemocnica SNP Ružomberok
ARCHITECT LT PROJEKT a.s., Luděk Tomek, Martin Foral
CEILING CONTRACTOR SimKor s.r.o a PURO-KLIMA, a.s.

ACOUSTICAL COMFORT

INTELLIGIBILITY ● ● ○
CONFIDENTIALITY ● ○ ○
CONCENTRATION ● ● ○

VISUAL COMFORT

DESIGN ● ○ ○
LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT ● ● ○
THERMAL MASS ○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE ● ● ●
CLEANABILITY ● ● ○

MEETING ROOM

COLLECTIVE ROOM

RECEPTION AREA

INDIVIDUAL ROOM

LEISURE ROOM

SPECIFIC AREA

CIRCULATION AREA 89

Hodge Hill Primary Care Centre

UNITED KINGDOM



How to offer a multi space solution, while meeting demanding comfort and hygiene requirements?

MINERAL SOLUTION

**Perla OP,
Bioguard Acoustic**

ARCHITECT | One Creative Environments Ltd
 MAIN CONTRACTOR | Kier Moss
 CEILING CONTRACTOR | Lakeside Ceilings & Partitions

ACOUSTICAL COMFORT
 INTELLIGIBILITY ● ○ ○
 CONFIDENTIALITY ● ○ ○
 CONCENTRATION ● ● ○

VISUAL COMFORT
 DESIGN ● ○ ○
 LIGHT REFLECTANCE ● ● ○

ENVIRONMENT BENEFIT
 RECYCLED CONTENT ● ○ ○
 THERMAL MASS ○ ○ ○

SAFE & HEALTHY
 ISO PERFORMANCE ○ ○ ○
 CLEANABILITY ● ● ○

MEETING ROOM **COLLECTIVE ROOM** RECEPTION AREA INDIVIDUAL ROOM LEISURE ROOM SPECIFIC AREA CIRCULATION AREA **91**

THANKS

We would like to thank all our customers for trusting our products and services over the past 150 years.

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