BOOK

2011

Armstrong®

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INTRO

Creators of interior building solutions, Armstrong have been leading with innovation for years, promoting a powerful fusion of quality, comfort and sustainability.

Today, our high-performance products and solutions boast excellent acoustical and visual comfort, outstanding design, and participate to energy efficiency and total respect for the environment.

In fact, we go far beyond traditional ceilings to provide you with perfectly adapted solutions at every level of your project, which can include everything from contemporary canopies to innovative wall systems and more.

Whatever your architectural project, whatever you need, you can count on Armstrong's truly MULTI-talented approach to boost your success. We offer you multiple choices of performance, as well as multiple dimensions and shapes, adapted to multiple segments and applications, covering multiple cultures, and throughout multiple countries. And we'd love to put our multiple talents to work for you!

So have a browse through our A-Book to enjoy an up-close look at what we've been doing – and see what we can do for you!

Enjoy.

Armstrong Building Products
"Creator of Building Interior Solutions"

TRENDS

ARCHITECTURAL & ENVIRONMENTAL

Architectural Trends

Minimal grid (less visible, thinner, hidden grid), for a monolithic visual.

New standard shapes & sizes including curved tiles.

Flexible solutions including discontinuous options.

Building function & efficiency (Simple, functional, rational design – Flexible, adaptable, open plan spaces).

Environmental Trends

Energy saving (Insulation, optimisation of HVAC) & thermal mass construction.

Occupant's comfort (Acoustics, Lighting & Air quality).



DESIGN



CONFIDENTIALITY





CONCENTRATION



SUSTAINABILITY

INTELLIGIBILITY









EDUCATION

Acoustics present a major challenge to educational institutions. Intelligibility and concentration are acoustical-performance demands that our teachers need today, to improve their working conditions as well as their students'. Armstrong continually develops solutions that address these concerns.

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

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

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How to optimise acoustics and meet the challenges of a school renovation project

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

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How to make an auditorium a place of unhindered concentration

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How to meet the requirements of schools with multi-functional areas

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How to provide multipurpose areas with excellent levels of sound and visual comfort

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

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How to improve acoustics in a school cafeteria with plenum constraints

30 **UK - Barnet College**
How to maximise a school's visual and acoustic performance by using metal ceilings

GERMANY

Primary School Putbus



OWNER	Stadt Putbus
ARCHITECT	Nordprojekt Thomas Nießen GmbH - Saßnitz
CONTRACTOR	PeSt System Ausbau GmbH - Saßnitz
AREA	1 450 m²





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

Our mineral solutions

Ultima OP
Plain
Bioguard Acoustic

ACOUSTICAL COMFORT

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

VISUAL COMFORT

DESIGN	● ○ ○
LIGHT REFLECTANCE	● ● ●

ENVIRONMENT BENEFIT

RECYCLED CONTENT	● ● ○
THERMAL MASS	○ ○ ○

SAFE & HEALTHY

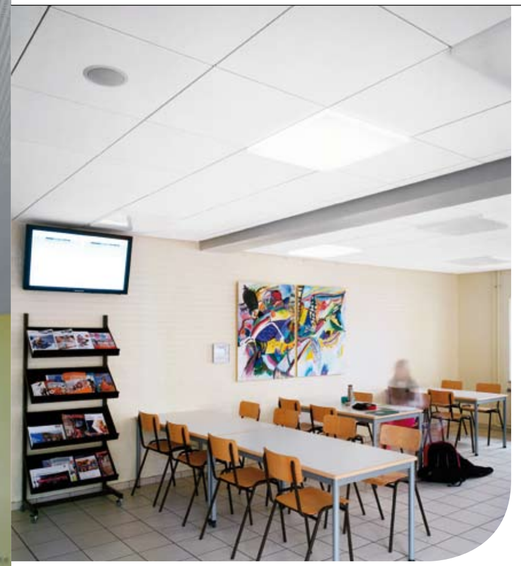
ISO PERFORMANCE	● ○ ○
CLEANABILITY	● ● ○

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

Lothar-Meyer-Gymnasium



PROJECT	Lothar-Meyer-Gymnasium - Varel
OWNER & ARCHITECT	Landkreis Friesland - Represented by: Stadt Varel - Fachbereich Bauen und Wohnen
CONTRACTOR	CS-Trockenbau - Varel
AREA	300 m²



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

Our mineral solutions

Ultima OP
Ultima (Vector)
Bioguard Plain

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

"We all want the best education for our children. As key decision makers, we have learned that good acoustical ceiling in schools can create a better learning environment and improve a students ability to concentrate. After working on many projects with Armstrong, we are happy with the recommendations made."

Landkreis Friesland
Represented by: City Varel, Department of Planning and Construction, Varel.



GERMANY

Johann-Baptist-Laßleben School





How to optimise acoustics
and meet the challenges
of a school renovation project

Our mineral solution

Ultima Tiles (Vector) & Planks

OWNER	Schulverband Kallmünz
ARCHITECT	Meier Nikolaus Architekturbüro - Regensburg
CONTRACTOR	Kürzinger & Stampfer - Dietfurt a.d Altmühl
AREA	1 985 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



OWNER	Staatliches Baumanagement Osnabrück-Emsland
ARCHITECT	Plan Concept GmbH Architekten Planung und Konzeption in Architektur Osnabrück
CONTRACTOR	Niemann GmbH & Co. KG., Lotte
AREA	1 500 m²

GERMANY

University Osnabrück Mensa



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

Our mineral solutions

Ultima OP
Ultima Planks

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ○ ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ●						

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

SPAIN

Pharmaceutical University of Alcalá de Henares



How to make an auditorium a place of unhindered concentration

Our mineral solution

Optima

PROJECT	Pharmaceutical University of Alcalá de Henares
ARCHITECT	Victor López Cotelo y Carlos Puente
MAIN CONTRACTOR	Ortiz Construcciones y Proyectos
CONTRACTOR	Cubranor S.A.
AREA	7 500 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

Christian University Windesheim



OWNER	Christelijke Hogeschool Windesheim - Zwolle
ARCHITECT	Broekbakema - Rotterdam
CONTRACTOR	Eissink - Hengelo





How to meet
the requirements of schools
with multi-functional areas

Our mineral solution

Sierra OP Planks

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

Theology University of Jan Pawel II Library



PROJECT	Papieska Akademia Teologiczna - BIBLIOTEKA Theology University of Jan Pawel II Library
OWNER	Papieska Akademia Teologiczna
ARCHITECT	K. Ingarden, J. Ewý Architekci Sp. z o.o.
AREA	1200 m²





How to offer the perfect wide-open environment for seeing, listening and learning...

Our metal solution

Hook-On Plain with special perforation (RAL 9007)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ○ ○	DESIGN	● ● ●	RECYCLED CONTENT	● ○ ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ○ ○	LIGHT REFLECTANCE	● ○ ○	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ○ ○						

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

Brooksbank School



PROJECT	Brooksbank School, Elland
ARCHITECT	Langtry Langdon Architects
MAIN CONTRACTOR	R H Fullwood & Co. Ltd
CONTRACTOR	Acorn Ceilings (Yorkshire) Ltd.
AREA	100 m²

Interview

"Armstrong Optima canopies are perfect for use in a space such as this, especially when the budget isn't available to completely replace the ceiling. The Optima canopies provided high levels of sound absorption helping to achieve the right level of reverberation for improved intelligibility and the curved visual provided an elegant yet stylish finish to the school hall."

Peter Gallagher
Langtry Langdon Architects



How to provide multipurpose areas with excellent levels of sound and visual comfort

Our mineral solution

Optima Canopy (Small 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

Southampton Solent University



PROJECT	Southampton Solent University
ARCHITECT	Solent University Estates Dept
CONTRACTOR	N F C Contract
AREA	400 m²



Interview

"The performance, both aesthetically, which was our priority, and acoustically, is exactly what we expected. We are very happy with the design outcome."

Barry Jaggard
Solent University Estates Manager



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

Our mineral solutions

Circulation area:
Ultima Canopy (Concave & Convex), Dune Colortone & Planks

Classroom: **Graphis**

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



PROJECT | St. Bede's Catholic High School
CONTRACTOR | AC Electrical Services (NW)

UNITED-KINGDOM

St. Bede's Secondary School



How to improve acoustics in a school cafeteria with plenum constraints

Our metal solution

Orcal Canopy (Flat)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ●	RECYCLED CONTENT	● ○ ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	○ ○ ○	LIGHT REFLECTANCE	● ● ○	THERMAL MASS	● ● ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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

Barnet College



How to maximise a school's visual and acoustic performance by using metal ceilings

Our metal solutions

MicroLook 8 Microperforated with fleece (RAL 9010)
MicroLook 8 Plain (RAL 9010)
Prelude 15mm XL² grid (RAL 9010)

OWNER	Barnet College
ARCHITECT	Perkins Ogden Architects
MAIN CONTRACTOR	Vinci Construction
CONTRACTOR	Vale Interiors
AREA	7 000 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





Interview

“Armstrong were able to offer us a wide range of ceiling tiles with variable sound absorption qualities according to the spaces they were to be used in.

The right kind of acoustics are crucial in teaching spaces, not only within the classroom or studio space but also to minimise noise interference from adjacent corridors, so that students can study without disturbance. We used Armstrong metal tiles because of their acoustic and durability performance characteristics as well as their pleasing aesthetics.”

Penelope Kimber
Barnet College





HEALTHCARE

Hygiene and maintenance are top priorities in healthcare environments.

The need for clean, bright suspended ceilings to hide cables, plumbing and electric wiring is essential.

Armstrong offers safe, clean and effective solutions that can significantly enhance a patient's experience.

34 **ES - Hospital de Sant Joan de Déu**
How to limit the bio contamination between different spaces in a hospital

36 **NL - Albert Schweitzer Hospital**
How to reach demands of cleanliness and sound quality

38 **NL - Oisterwijk Clinic**
How to enhance the comfort and ambience of a clinic

40 **NL - St. Jozef Aged Care Facility**
How to offer a tailor-made solution for every hospital space, while meeting demanding comfort and hygiene requirements

42 **UK - Tameside General Hospital**
How to create a welcoming and fun experience for children in a hospital setting

SPAIN

Hospital de Sant Joan de Déu





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

Our mineral & metal solutions

Bioguard Acoustic
Q-Clip F Plain Planks

PROJECT	Hospital de Sant Joan de Déu
ARCHITECT	Joan Prat Aguilar y Toni Codina Jané de CPVA Arquitectes
CONTROL PROJECT MANAGER	Miquel Cid y Toni Torrent (OHSJD)
AREA	47 000 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

Albert Schweitzer Hospital



PROJECT	Albert Schweitzer Hospital - Dordrecht
ARCHITECT	EGM Architecten BV - Dordrecht
CONTRACTOR	Wergo Afbouw BV - Veldhoven
AREA	40 000 m²





How to reach
demands of cleanliness
and sound quality

Our mineral solution

Perla OP

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ○ ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ●						

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

Oisterwijk Clinic



OWNER	Oisterwijk Clinic
ARCHITECT	DENC Netherlands BV - Berkel-Enschot
CONTRACTOR	VHV Afbouw - Veldhoven
AREA	2 500 m²



How to enhance the comfort and ambience of a clinic

Our mineral solution

Ultima (Vector)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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

St. Jozef Aged Care Facility

PROJECT	St. Jozef Aged Care Facility
OWNER	St. Jozef Verzorgingstehuis (Wozoco) - Gendt
ARCHITECT	van aken architecten - Eindhoven
CONTRACTOR	Peters Plafondsystemen BV - Heesch
AREA	6 000 m²





How to offer a tailor-made solution for every hospital space, while meeting demanding comfort and hygiene requirements

Our mineral solutions

Public areas: **Perla OP**

Corridors: **Ultima Planks**

Specific areas: **Bioguard Acoustic**

Others: **Ultima (Vector)**

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ○ ○	DESIGN	● ○ ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	● ● ○
CONFIDENTIALITY	● ● ●	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ● ○
CONCENTRATION	● ● ○						

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



PROJECT	Tameside General Hospital - PFI
ARCHITECT	Seymore Harris Keppie
MAIN CONTRACTOR	Balfour Beatty Construction
CEILING CONTRACTOR	Kinder Interiors
AREA	20 000 m²

UNITED-KINGDOM

Tameside General Hospital



How to create a welcoming and fun experience for children in a hospital setting

Our mineral solutions

Corridors: **Ultima (Vector) Print Tiles**

All other areas: **Bioguard Acoustic**

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ○ ○	DESIGN	● ● ●	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	● ● ●
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ○	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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





Interview

"The innovative printed ceiling designs provide an inviting, comfortable ambience for patients and visitors. A sense of well-being is also achieved due to the fact that the Ultima Vector ceilings reduce background noise significantly in corridor areas with hard surfaces".

Paul Kinder - Kinder Interiors Ltd





TRANSPORT

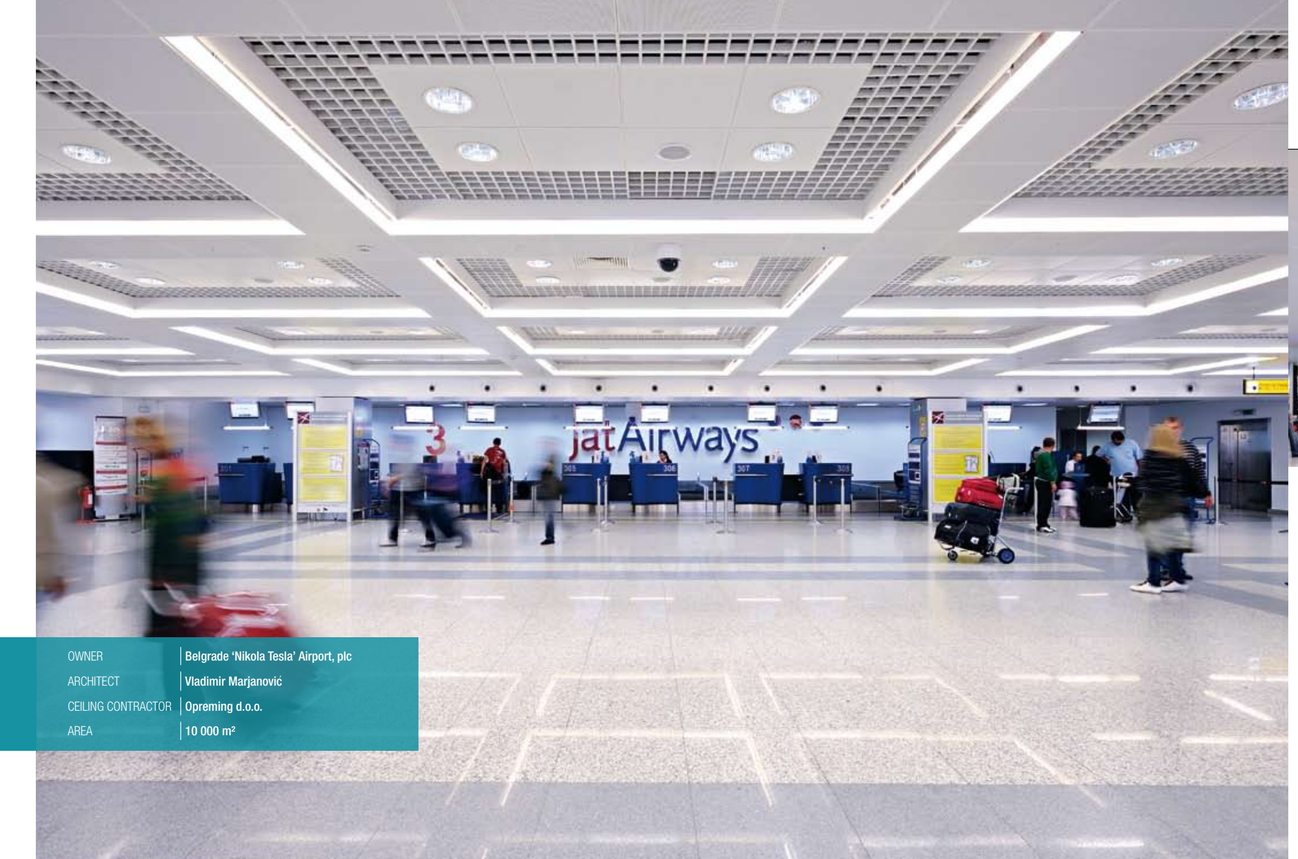
A pleasant airport lounge or train station can do a lot to relieve anxiety amongst busy travellers.

Armstrong's interior-ceiling solutions improve well-being, provide visual and acoustical comfort, whether travellers are queuing at the ticket office or standing on the platform.

48 **RS - 'Nikola Tesla' Belgrade Airport**
How to offer travellers a quieter, more pleasant environment with a focus on aesthetics, acoustics and service integration

50 **UK - Mile End Tube Station**
How to enhance a commuter's travel experience by concealing cables, clutter and other messy-looking service facilities

‘Nikola Tesla’ Belgrade Airport



OWNER	Belgrade ‘Nikola Tesla’ Airport, plc
ARCHITECT	Vladimir Marjanović
CEILING CONTRACTOR	Opreming d.o.o.
AREA	10 000 m²





How to offer travellers a quieter, more pleasant environment with a focus on aesthetics, acoustics and service integration

Our metal solutions

Cellio C64

T-Clip F Perforated

Lay-In MicroLook Perforated

Vertical Baffles

Lay-In Board Perforated

ACOUSTICAL COMFORT

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

VISUAL COMFORT

DESIGN	● ● ●
LIGHT REFLECTANCE	● ● ○

ENVIRONMENT BENEFIT

RECYCLED CONTENT	● ○ ○
THERMAL MASS	○ ○ ○

SAFE & HEALTHY

ISO PERFORMANCE	○ ○ ○
CLEANABILITY	● ● ○

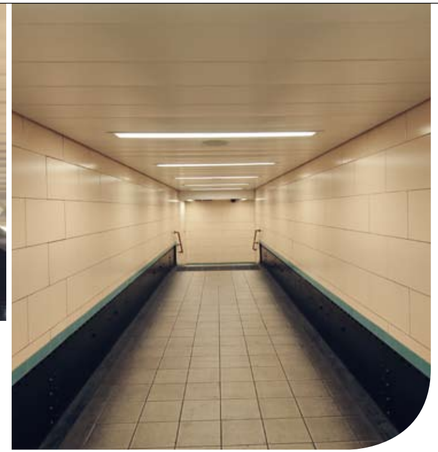
MEETING ROOM
COLLECTIVE ROOM
RECEPTION AREA
INDIVIDUAL ROOM
LEISURE ROOM
SPECIFIC AREA
CIRCULATION AREA

Mile End Tube Station



PROJECT	Transport for London
ARCHITECT	Osel Architecture Ltd
MAIN CONTRACTOR	Balfour Beatty
CEILING CONTRACTOR	Harvey Ceilings
AREA	2 500 m²





How to enhance a commuter's travel experience by concealing cables, clutter and other messy-looking service facilities

Our metal solutions

Platforms: **RAL 9010 Fastrak 331 Extra Microperforated with fleece**

Ticket Hall & Passageways: **RAL9010 T-Clip F Extra Microperforated with fleece**

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
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LEISURE ROOM
SPECIFIC AREA
CIRCULATION AREA



OFFICE

Bright, spacious office environments make for happier, and thus more productive, workers! Armstrong solutions are perfect to liven up any office, due to ergonomic design, enhanced lighting, optimised sound absorption and improved sound attenuation.

54 **DE - Parker Hannifin, Bielefeld**
How to deliver a harmonious ambience while ensuring optimal sound quality

58 **DE - Wasserwerke Westfalen GmbH, Witten**
How to minimise reverberation times in a glass-partitioned office

60 **IT - Cashpro Office**
How to finish off a renovated office with enhanced acoustics, visual appeal and improved working conditions

64 **IT - Piazzalunga Group, Zanica**
How to leverage thermal-mass energy in order to create a workspace that's as sustainable as it is relaxing

66 **NL - DCMR Environmental Protection Agency Office**
How to enhance both acoustics and energy efficiency at the same time

68 **NL - Housing Association Company**
How to deliver a monolithic ambience and a sound-friendly experience

70 **NL - Santander Consumer Finance Offices**
How to make multiple workspaces achieve the same high level of aesthetic and acoustic performance

74 **PL - Church In Mosty Village**
How to help people stay focused on what's being said

76 **PL - Strabag Headquarters**
How to offer the ultimate blend of enhanced acoustics and energy efficiency

78 **RS - Telenor**
How to combine different textures to strike the perfect balance between design and acoustics

Parker Hannifin



PROJECT	Parker Hannifin GmbH - Bielefeld
ARCHITECT	PODUFAL + WIEHOFSKY Architekten und Ingenieure, Löhne
CONTRACTOR	Offszanka Trockenbau GmbH & Co. KG
AREA	2 900 m²



How to deliver
a harmonious ambience
while ensuring optimal
sound quality

Our mineral & metal solutions

Canteen: **Bioguard Acoustic Orcal Canopy (Concave)**

Meeting room: **Ultima OP**

Kitchen: **Bioguard Acoustic**

Corridor: **Ultima Planks & Tiles**

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	●●○	DESIGN	●●●	RECYCLED CONTENT	●●○	ISO PERFORMANCE	●●○
CONFIDENTIALITY	●●○	LIGHT REFLECTANCE	●●●	THERMAL MASS	○○○	CLEANABILITY	●○○
CONCENTRATION	●●○						

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





Interview

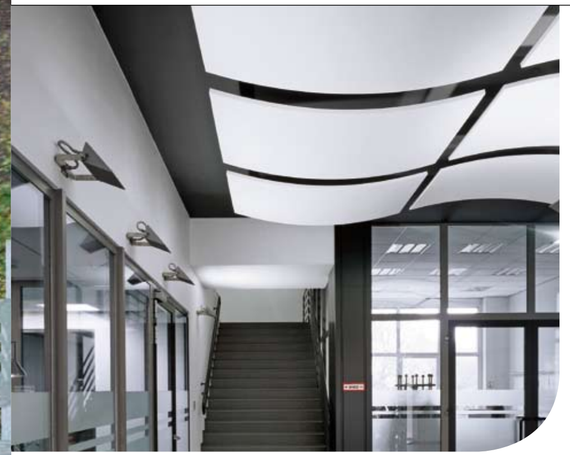
"Bielefeld Logistics Centre is a branch of the American Technology Corporation, Parker Hannifin Corporation. Parker Hannifin is the world's leading manufacturer of power transmission and control technologies. Maintaining our leadership position is a daily challenge for our dedicated employees. We wanted to create a modern feel, enhance the work space and improve concentration conditions for our employee's. We decided to use innovative, acoustic ceiling solutions from Armstrong. The proposal to use Armstrong Canopies in our canteen was exciting and practical. The Canopies and soft lighting provide a lovely relaxed and cosy atmosphere."

Dirk Falkenreck
European Distribution Centre Manager, Parker Hannifin GmbH



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

Wasserwerke Westfalen GmbH



How to minimise
reverberation times
in a glass-partitioned office

Our mineral solution

Reception area: **Ultima Canopy (Convex and Concave)**

PROJECT & OWNER	Wasserwerke Westfalen GmbH - Witten (Water Supply Company)
ARCHITECT & CONTRACTOR	NK Trockenbau Akustikausbaugesellschaft mbH

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ●	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ○ ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	● ● ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ●						

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



PROJECT	CTS Cashpro Office
ARCHITECT	Nicola Tonso - dueA srl
AREA	500 m²

Cashpro Office



How to finish off
a renovated office with
enhanced acoustics,
visual appeal and improved
working conditions

Our mineral solutions

Circulation area: **Optima Canopy**

Reception area & Open space:
Axiom C Canopy with Ultima OP

Meeting room: **Perla**

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ●	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	● ● ●	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ●						

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





Interview

"The wide array of shapes and sizes in our range allowed us to enhance the various work areas and improve the acoustics to meet the end-users' needs. Our dedication and understanding of designers' demands has allowed us to offer a high level of flexibility, which is ideal for renovating existing environments."

Alessandro Buldrini, Country Sales Manager





PROJECT	Piazzalunga Group Head Office, Zanica
ARCHITECT	Studio Archeias
CONTRACTOR	D.A.M.S.
AREA	770 m²

Piazzalunga Group



How to leverage thermal-mass energy in order to create a workspace that's as sustainable as it is relaxing

Our mineral solution

Axiom C Canopy with Ultima OP

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



OWNER	DCMR Milieudienst Rijnmond, Schiedman
ARCHITECT	Van den Oever, Zaaijer & Partners architecten
CONTRACTOR	Bovero BV
AREA	12 000 m²





How to enhance both acoustics and energy efficiency at the same time

Our mineral & metal solutions

Ultima Planks & Tiles
Humid areas: **Newtone**
Entrance: **S-Clip F Swing Down Perforated**

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



PROJECT	Housing Association Company, Helmond
ARCHITECT	Lanfemeijer Seelen Weijer Architecten, Oirschot
CONTRACTOR	Engels Plafondbedrijf Bv, Beek En Donk
AREA	2 000 m²

THE NETHERLANDS

Housing Association Company





How to deliver a monolithic ambience and a sound-friendly experience

Our mineral solutions

Optima & Ultima (Vector)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ●						

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

Santander Consumer Finance Offices



DEVELOPER	Santander Consumer Finance Benelux B.V. - Utrecht
ARCHITECT	D+Z Architecten + Projectmanagers - Naarden
CONTRACTOR	Verwol Projektafbouw B.V. - Opmeer
AREA	3 700 m²



How to make multiple workspaces achieve the same high level of aesthetic and acoustic performance

Our mineral solutions

Open space & meeting room:
Perla OP Planks

Circulation area: **Dune**

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



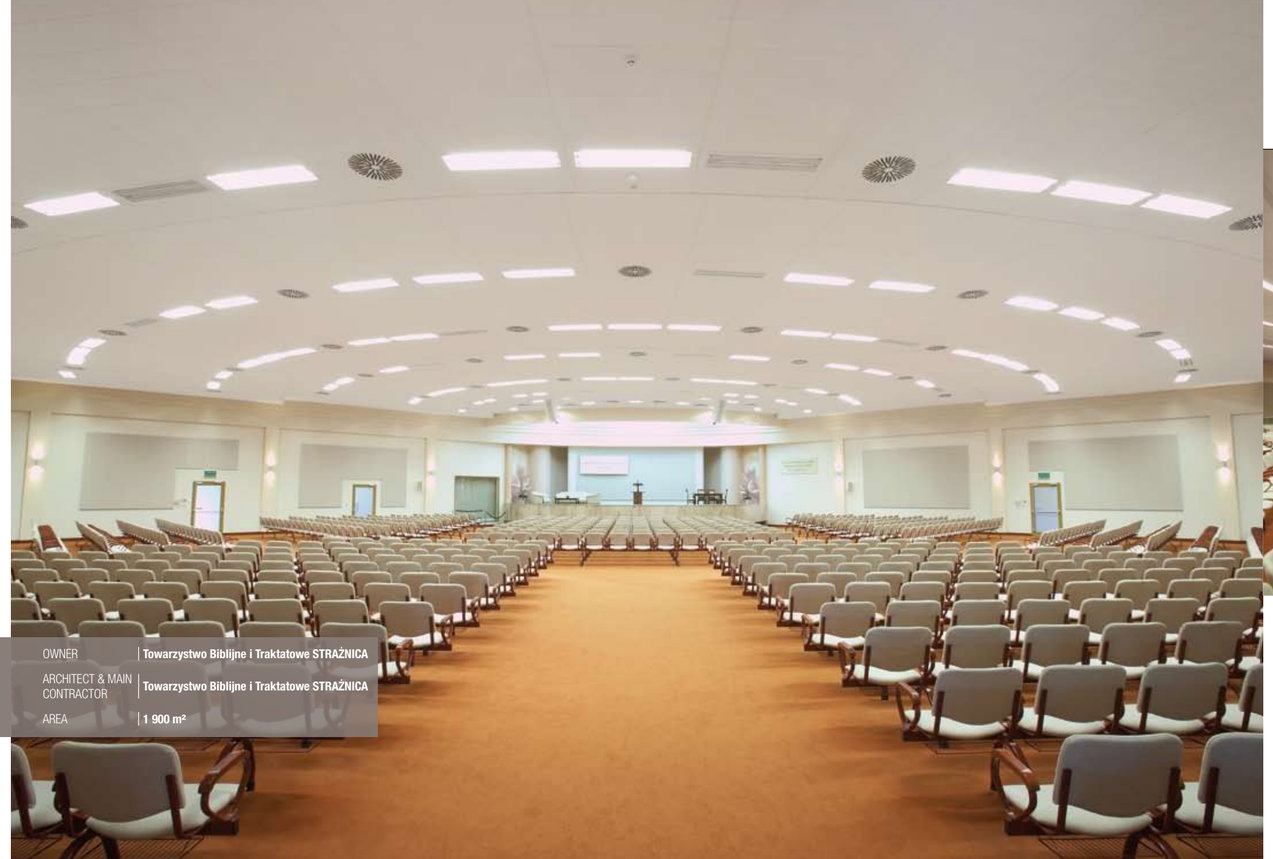


Interview

"The whole building exudes openness, creating a functional and pleasant workplace. We selected a mixture of different ceilings to ensure optimum acoustic comfort. The ceilings are durable and smooth, with a high recycle content. Using sustainable materials fitted in perfectly with our policy for sustainable construction".

D + Z + Architects + Project Managers - Naarden





OWNER	Towarzystwo Biblijne i Traktatowe STRAŻNICA
ARCHITECT & MAIN CONTRACTOR	Towarzystwo Biblijne i Traktatowe STRAŻNICA
AREA	1 900 m²

POLAND

Church In Mosty Village



How to help people stay focused on what's being said

Our mineral solutions

Ultima Planks
Axiom Curved 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

POLAND

Strabag Headquarters



OWNER	Strabag sp.z o.o.
ARCHITECT	Strabag sp.z o.o.
CONTRACTOR	Otto Hirsch - Warszawa Sp. z o.o.
AREA	1 500 m²





How to offer the ultimate blend of enhanced acoustics and energy efficiency

Our metal solutions

Q-Clip Plain Square Edge

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



OWNER	Telenor, d.o.o.
ARCHITECT	Telenor, d.o.o.
CONTRACTOR	STUDIO M DCS d.o.o.
AREA	1 000 m²

Telenor Contact Centre



Telenor Intro Centre - stage space



Telenor Expo Centre - entrance area

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

Our mineral solutions

Corridor: **Colortone Black, Ultima Planks with Bandraster Profile 100 mm**

Open space and reception area: **Madera Lime Tree with Axiom Profile 100 mm**

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



RETAIL & LEISURE

When customers venture out into the consumer world, they look for more than just good products and services.

They also want an enjoyable experience. Often, the ambience and interior design features will attract people into a leisure or retail space. Armstrong's design portfolio of ceiling and wall solutions guarantee a memorable visit!

82 **CZ - APB Plzen**
How to provide acoustical comfort and retain a restaurant's original design features

84 **DE - O_2 Arena**
How to effectively communicate a company's corporate brand internally

88 **IT - Padua Train Station Shopping Centre**
How to provide a soothing shopping experience in a glass-partitioned store

90 **NL - Bank Office**
How to make customers feel wanted and welcome when they walk into your bank

92 **NL - Fast Fit**
How to turn tireless workouts into real moments of pleasure

94 **SK - Galeria Mlyny Nitra Shopping Centre**
How to unite various textures to provide a comfortable, agreeable atmosphere in any shopping centre

96 **RS - Mozzart Betting and Gaming Centre**
How to create a custom look with service integration using standard components

98 **UK - Splash Swimming Pool**
How bespoke design solutions liven up any retail and leisure space

APB Plzeň



PROJECT	APB Plzeň
ARCHITECT	Area Group s.r.o. - Ing. Arch. Bořik
CONTRACTOR	Komont spol.s.r.o.
AREA	500 m²





How to provide acoustical comfort and retain a restaurant's original design features

Our mineral solutions

Ultima Canopy & Optima Canopy (Square)

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 effectively communicate a company's corporate brand internally

Our metal solutions

Clip-in (R-Clip & Q-Clip)

Hook-On (RH 200)

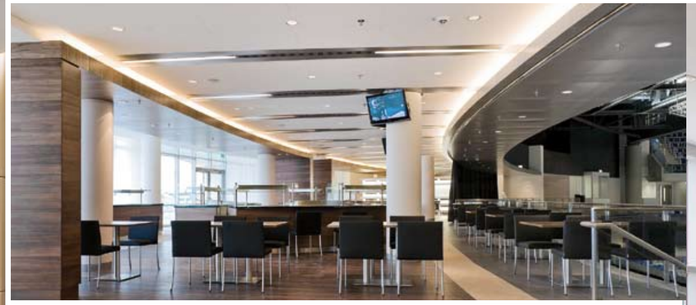
Wall solution (WH 1100)

ARCHITECT	O_2 Arena: HOK Sport
MAIN AND VIP LOBBY	Schmidhuber & Partner, Munich
CEILING CONTRACTOR	Rogge Spezialbau, Berlin
AREA	approx. 3 400 m²

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ●	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ○ ○	LIGHT REFLECTANCE	○ ○ ○	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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





Interview

"The feature walls and ceiling are made up of blue panels with a regular 20x20 cm grid of holes. They work like a big media screen with low pixel resolution, and behind every hole are bright RGB LED elements. The ceiling is illuminated with white and blue fluorescent tubes. It is attached with Z-Profiles, which are fixed to a grating connected to the concrete structure of the hall."

Oliver Hill
Schmidhuber + Partner



ITALY

Padua Train Station

Shopping Centre





How to provide a soothing shopping experience in a glass-partitioned store…

Our metal solution

Axiom KE Canopy with Axal (Vector)

OWNER	Centostazioni S.p.A.
ARCHITECT	Cristian Piccolo

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

Bank Office



DEVELOPER | Bankkantoor - Alkmaar
CONTRACTOR | Interkomfort BV - Purmerend
AREA | 1 400 m²





How to make customers feel wanted and welcome when they walk into your bank

Our mineral solution

Ultima (Vector)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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



OWNER | Fast Fit - Amsterdam
ARCHITECT | C4ID Concepts for Interior Design - Hilversum
CONTRACTOR | Avanti Systeembouw BV - Alkmaar



How to turn tireless workouts into real moments of pleasure

Our mineral solution

Ultima (Vector)

ACOUSTICAL COMFORT		VISUAL COMFORT		ENVIRONMENT BENEFIT		SAFE & HEALTHY	
INTELLIGIBILITY	● ● ○	DESIGN	● ● ○	RECYCLED CONTENT	● ● ○	ISO PERFORMANCE	○ ○ ○
CONFIDENTIALITY	● ● ○	LIGHT REFLECTANCE	● ● ●	THERMAL MASS	○ ○ ○	CLEANABILITY	● ○ ○
CONCENTRATION	● ● ○						

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

Galeria Mlyny Nitra Shopping Centre



PROJECT	Galeria Mlyny Nitra Shopping Centre
OWNER	Mlyny, a.s., Nitra
ARCHITECT	Radovan Vranka. Pavol Kollár. Tomáš Matlák
AREA	10 000 m²





How to unite various textures
to provide a comfortable,
agreeable atmosphere
in any shopping centre

Our mineral & metal solutions

Madera (Vector)
Ultima tiles & Tiles & Planks

Open Cell:
Visual V49 (Mineral)
Cellio C36 (Metal)

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

SERBIA

Mozzart Betting and Gaming Centre



OWNER	Mozzart d.o.o.
ARCHITECT	Predislav Djokić
CEILLING CONTRACTOR	S.Z.R. Ivar





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

Our mineral solutions

Axiom C Canopy

Ultima Planks & Tiles

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

Splash Swimming Pool



How bespoke design solutions
liven up any retail
and leisure space

Our resin solution

Infusions Canopy Saffron Energy & Midnight Dream

PROJECT	Splash Swimming Pool
ARCHITECT	Stockton on Tees Borough Council
MAIN CONTRACTOR	F Parkinson Ltd
CEILING CONTRACTOR	BM Ceilings

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

Armstrong Recognised Ceiling Contractor

FDES

THANKS

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