

STRUCTURE SOLUTIONS

SOLUTIONS STRUCTURELLES // SOLUCIONES ESTRUCTURALES

| | |
|------------------------------------|-------|
| Arena Da Baixada | 10-11 |
| Marineda City Shopping Mall | 12-13 |
| Musée Aeroscopia | 14-15 |
| Magic Box | 16-17 |
| Victoria Square Shopping Centre | 18-19 |
| Iberia Hangar | 20-21 |
| Carioca Arenas | 22-23 |
| Cibeles Palace | 24-25 |
| Arena Das Dunas | 26-27 |
| Tabakalera | 28-29 |
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We'll make your project a reality

Nous Faisons De Votre Projet Une Réalité
Hacemos su proyecto realidad

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STRUCTURE SOLUTIONS



SOLUTIONS STRUCTURELLES

Depuis 1977 LANIK apporte ses propres solutions structurelles. Le savoir-faire accumulé depuis toutes ces années nous permet d'apporter la meilleure des solutions pour nos clients dans chaque phase de tous les projets : conception, fabrication et montage.



SOLUCIONES ESTRUCTURALES

Desde 1977 LANIK aporta soluciones estructurales propias. El dominio acumulado durante estos años, nos permite aportar en cada proyecto la mejor de las soluciones para nuestros clientes en cada una de las fases; diseño, fabricación y montaje.

Since 1977, LANIK offers own designed structure solutions. The experience gathered during all these years allows us to provide our structures with the solutions that best suit our clients' requirements in each of the stages of the project - design, manufacturing and assembly.

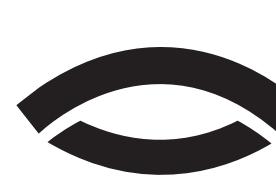


[Presentation video](#)
[Vidéo de présentation](#)
[Video presentación](#)



Engineering Solutions
Solutions d'Ingénierie
Soluciones de Ingeniería

And OUR TURNKEY SOLUTIONS



Retractable Structures

Structures Rétractiles
Estructuras Retráctiles

VERSATILITY

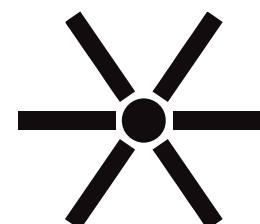
Retractable or mobile structures allow to transform an INDOOR Arena into an OUTDOOR space, thus obtaining a multi-purpose building that can cover all types of needs during the whole year.

VERSATILITÉ

Les structures rétractiles ou mobiles permettent de transformer en seulement 10 minutes une "Arena" INDOOR en une OUTDOOR. Le résultat est un bâtiment polyvalent qui peut être utilisé pour divers types d'évènements pendant l'année.

VERSATILIDAD

Las estructuras retráctiles o móviles permiten transformar en solo 10 minutos una "Arena" INDOOR en una OUTDOOR, obteniendo un edificio multiusos para todo tipo de necesidades durante todo el año.



Single-layer Structures

Structures Monocouche
Estructuras Monocapa

TRANSPARENCY

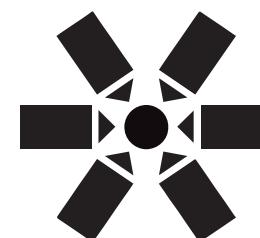
Especially appropriate to complement translucent roofs. This combination provides maximum transparency, using the minimum structure elements possible.

TRANSPARENCE

Spécialement conçues pour les assembler avec des toitures translucides. Cette combinaison permet une transparence maximale avec le plus petit nombre d'éléments structurels.

TRANSPARENCIA

Especialmente adecuados para complementarlas con cubiertas translúcidas. Esta combinación aporta el máximo de transparencia, con el mínimo de elementos estructurales.



Space Frames

Structures Spatiales
Estructuras Espaciales

LIGHT AND EASY TO ASSEMBLY
These two qualities, in addition to economizing the project, add and enhance the possibility of having large spans, which wouldn't be viable with other more conventional systems.

LÉGÈRETÉ ET FACILITÉ DE MONTAGE

Ces deux qualités sont économiques. De plus, il faut souligner la possibilité d'avoir une grande luminosité, ce qui ne serait pas possible avec d'autres systèmes plus conventionnels.



Glulam

Charpentes en bois lamellé
Madera Laminada

GLULAM
These wooden structures provide warmth and a unique appearance, including even long span roofs. What's more, we are proud to have FSC certification for responsible and sustainable use of forest materials in our production.

CHARPENTES EN BOIS LAMELLÉ
les structures en bois confèrent chaleur et un aspect naturel unique, même pour des constructions de grandes portées. En outre, nous possédons la certification forestière FSC.

MADERA LAMINADA
Las estructuras de madera aportan calidez y un aspecto natural único, pudiendo salvar grandes luces o claros. Además contamos con la certificación forestal FSC.



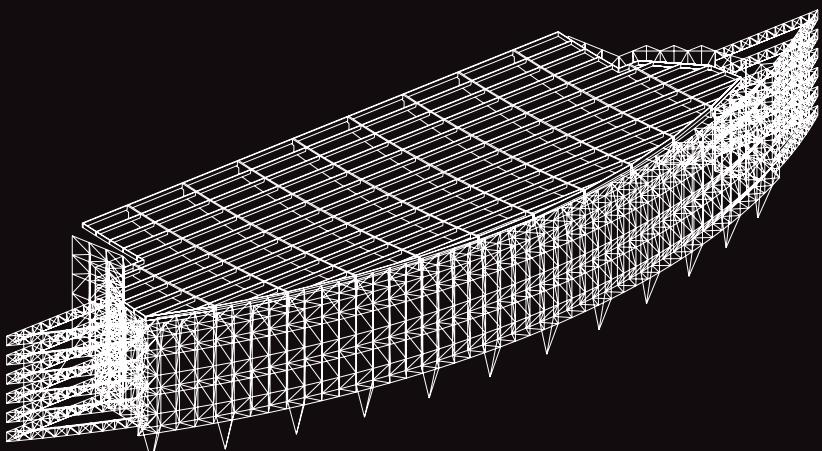
07

A WELL-STRUCTURED JOB

UN TRAVAIL
BIEN STRUCTURÉ

UN TRABAJO
BIEN ESTRUCTURADO

Design // Conception // Diseño



Through its own CAD system, LANIK generates the optimum geometry for each project and obtains the corresponding mathematical model. Then, a structure analysis is performed, in order to establish all the elements that will make up the structure.

Grâce à un système propre de CAD, LANIK génère la géométrie optimale pour chaque projet et obtient ainsi le modèle mathématique correspondant. Ensuite, il faut réaliser l'analyse structurelle jusqu'à l'obtention de tous les éléments qui forment la structure.

Mediante un sistema propio de CAD, LANIK genera la geometría óptima para cada proyecto, obteniendo el modelo matemático correspondiente. A continuación se procede al análisis estructural hasta que se establecen todos los elementos que forman la estructura.

Manufacturing // Fabrication // Fabricación

LANIK has its own production plant, where it connects design and manufacture processes through its in-house developed CAM system. All elements are manufactured with CNC machines.

LANIK dispose de sa propre usine de production, où elle relie le processus de conception à celui de production grâce à son propre système CAM de développement. Tous les éléments sont fabriqués par des machines à contrôle numérique.

LANIK dispone de una planta de producción propia, en donde mediante sistema CAM de desarrollo propio, enlaza el proceso de diseño con el de producción. Todos los elementos son fabricados por máquinas de control numérico.

Assembly // Montage // Montaje

Once the installation characteristics have been examined (such as location, available area, accesses, etc.), LANIK assembles all the elements that form the structure. Before mounting the structure, our engineers study the installation manoeuvres needed, by means of our own calculation tools.

Après avoir étudié les différentes situations de montage comme l'emplacement, l'espace, les accès... les équipes de LANIK assemblent les différents éléments qui forment la structure. Les manœuvres effectuées pour le positionnement final des structures sont étudiées au préalable par nos ingénieurs avec leurs propres outils de calcul.

Una vez estudiado las diferentes situaciones de montaje, como la ubicación, el espacio, los accesos,... LANIK, mediante equipos propios, ensambla los diferentes elementos que forman la estructura. Las maniobras para el posicionamiento final de las estructuras es previamente estudiado por nuestros ingenieros mediante herramientas propias de cálculo.

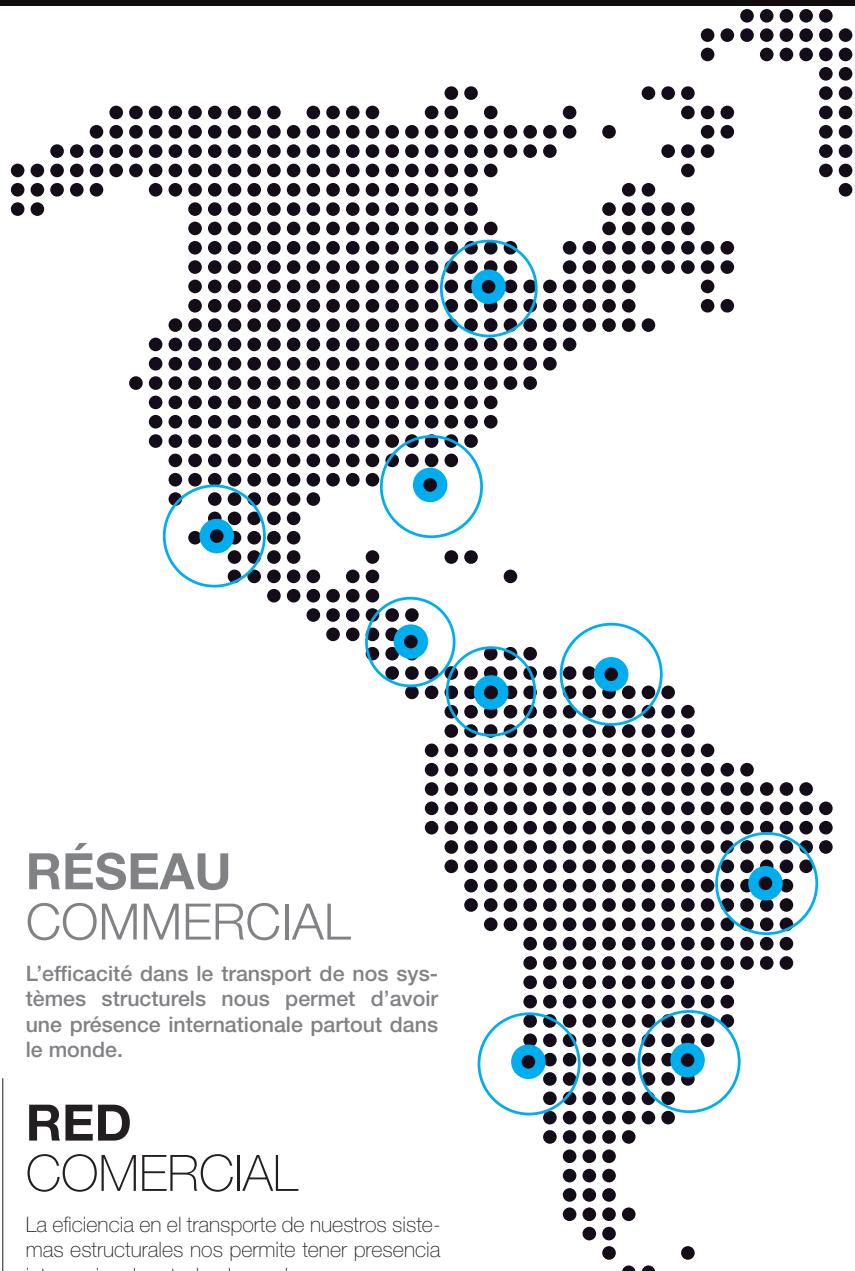




BUSINESS NET

Thanks to our efficient transport system, our structure solutions are present in all the world.

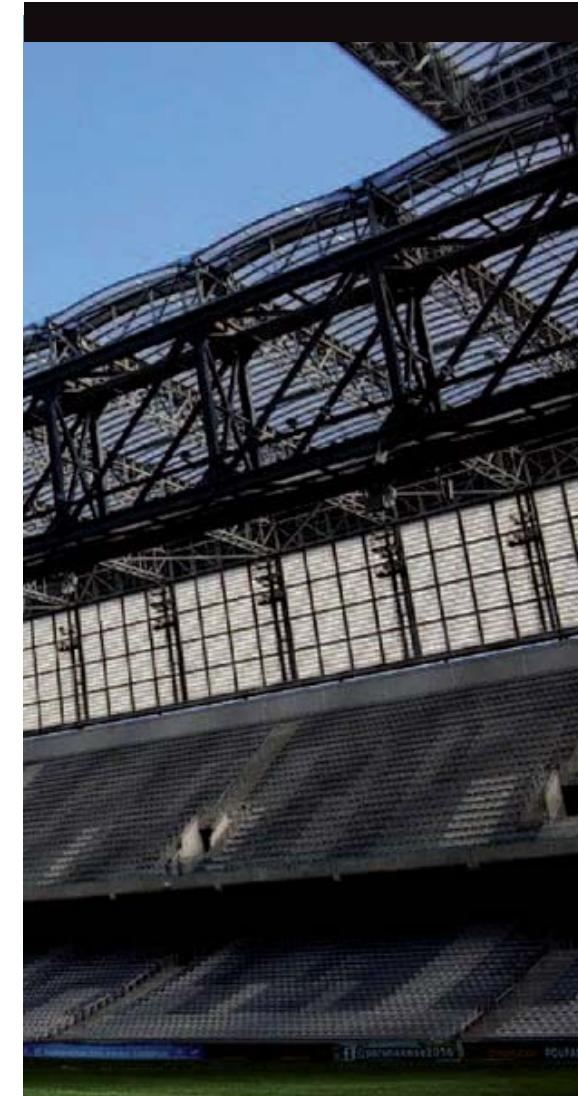
09



ARENA DA BAIXADA



Client: Clube Atlético Paranaense // Architect: Carlos Arcos



STRUCTURE/STRUCTURE/ESTRUCTURA

ENGINEERING +
RETRACTABLE STRUCTURES
INGÉNIERIE +
STRUCTURES RÉTRACTILES
INGENIERÍA + ESTRUCTURA RETRÁCTIL

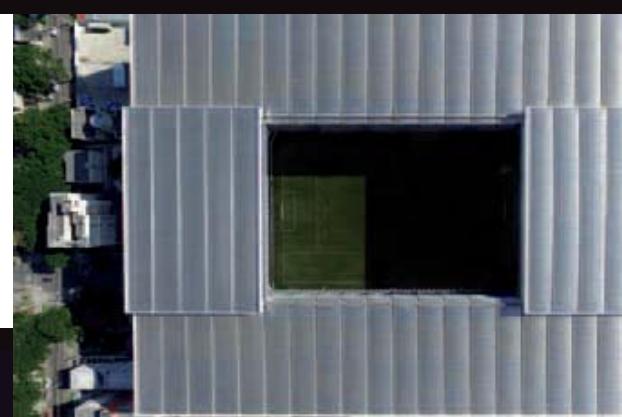
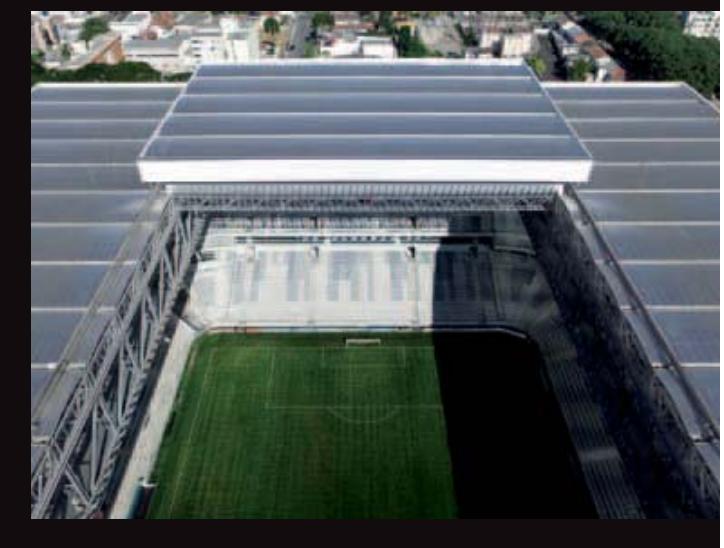


CITY/VILLE/CIUDAD

CURITIBA

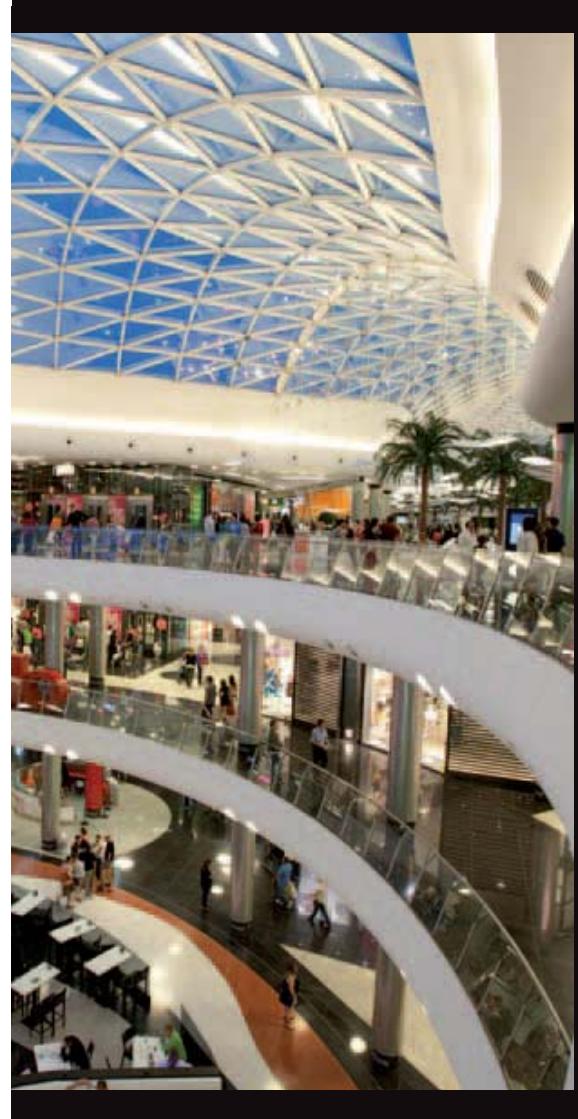
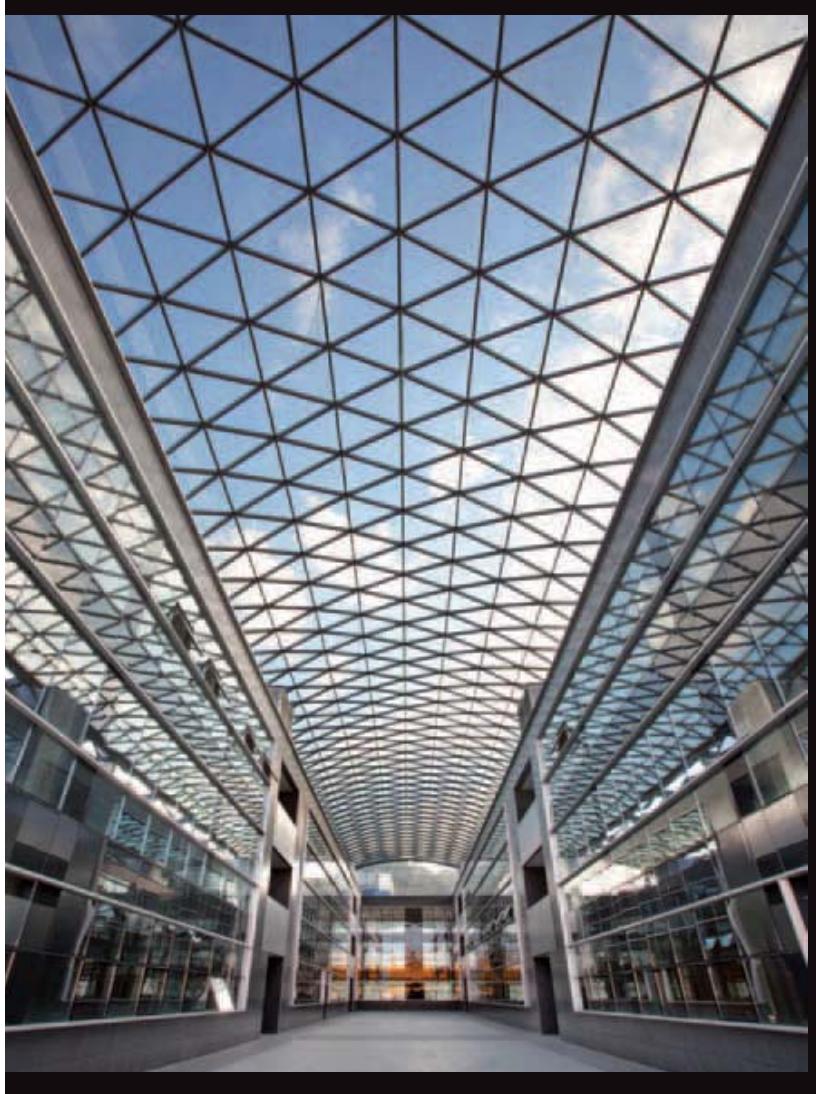
COUNTRY/PAYS/PAÍS

BRAZIL



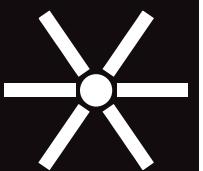
MARINEDA CITY SHOPPING MALL

13



STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA



CITY/VILLE/CIUDAD

A CORUÑA
COUNTRY/PAYS/PAÍS

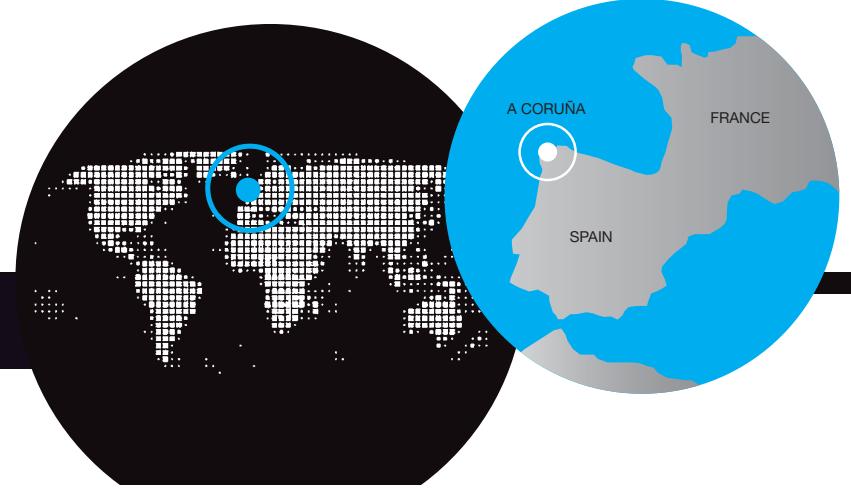
SPAIN

m²

7.938



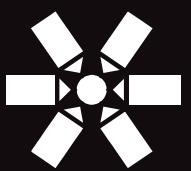
Architect: Jaime Martínez Molina, MMO Architects



MUSÉE AEROSCOPIA



STRUCTURE/STRUCTURE/ESTRUCTURA



SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL

CITY/VILLE/CIUDAD

BLAGNAC

COUNTRY/PAYS/PAÍS

FRANCE

m²

11.173

MAGIC BOX



Architect: Dominique Perrault



STRUCTURE/STRUCTURE/ESTRUCTURA

RETRACTABLE STRUCTURE
STRUCTURE RÉTRACTILE
ESTRUCTURA RETRÁCTIL



CITY/VILLE/CIUDAD

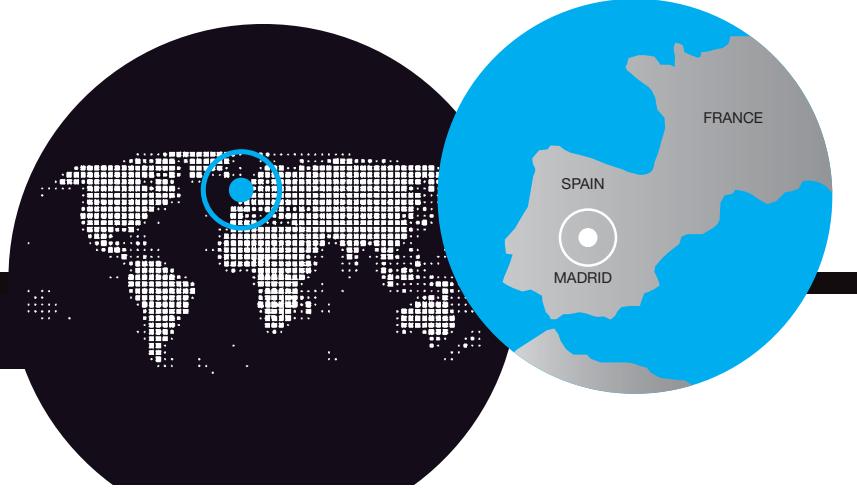
MADRID

COUNTRY/PAYS/PAÍS

SPAIN

m²

6.298



VICTORIA SQUARE SHOPPING CENTRE



Client: Space Decks



STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA



CITY/VILLE/CIUDAD

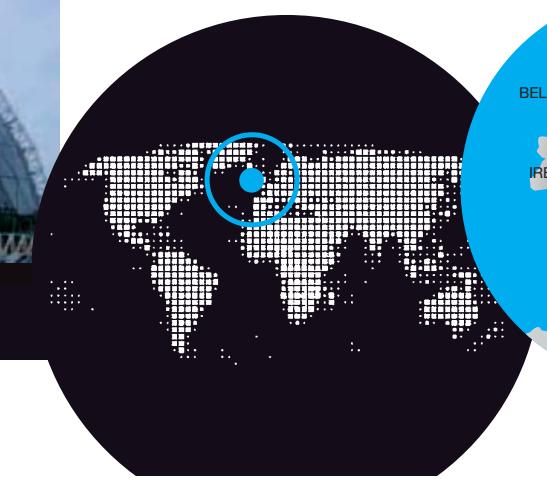
BELFAST

COUNTRY/PAYS/PAÍS

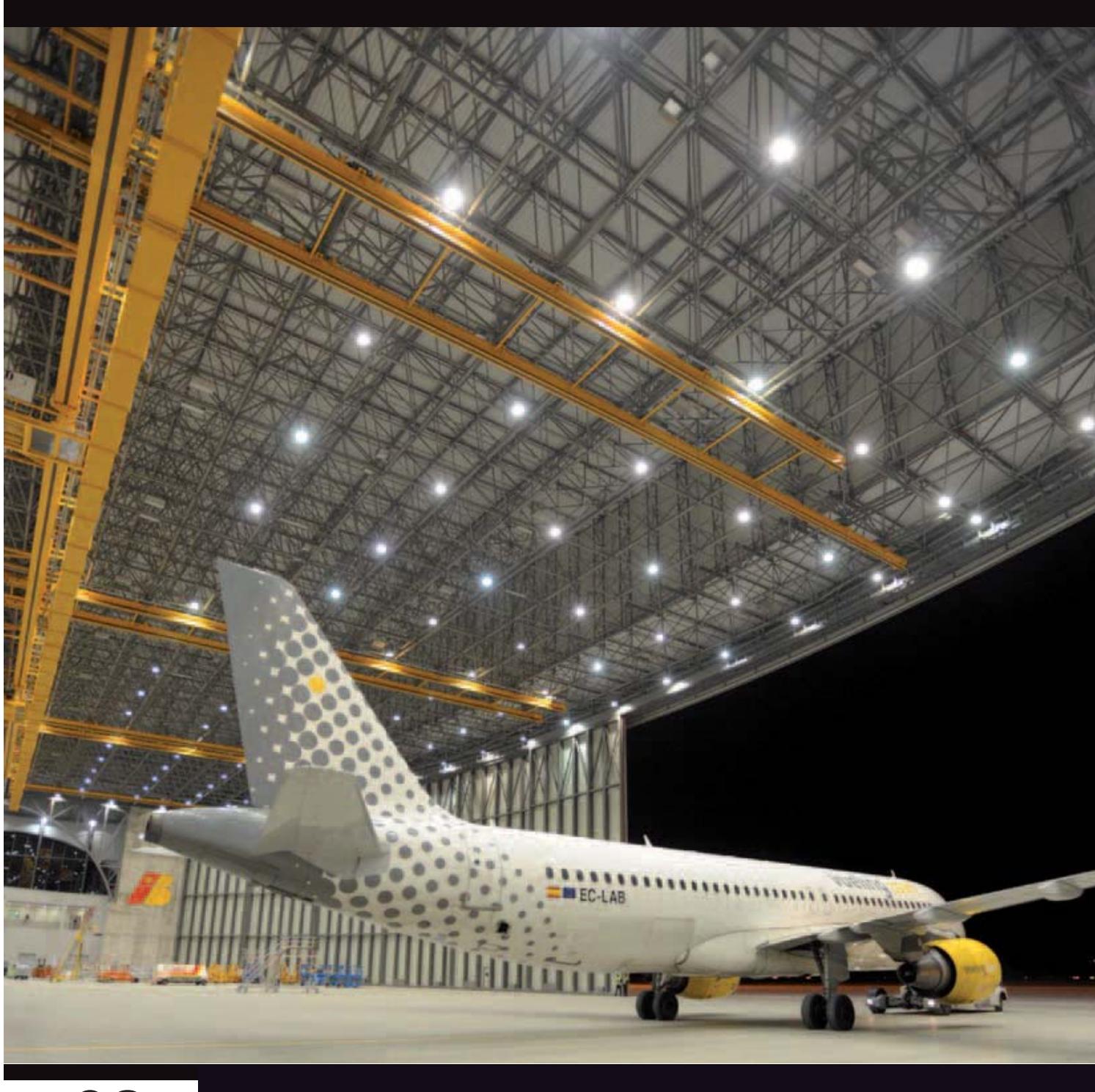
NORTHERN
IRELAND

m²

2.170



IBERIA HANGAR



20

STRUCTURE/STRUCTURE/ESTRUCTURA

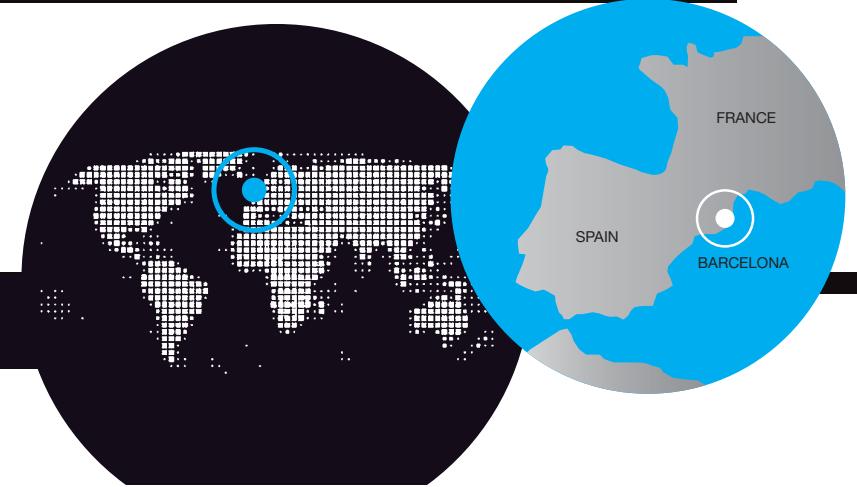
SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL

CITY/VILLE/CIUDAD
BARCELONA

COUNTRY/PAYS/PAÍS
SPAIN

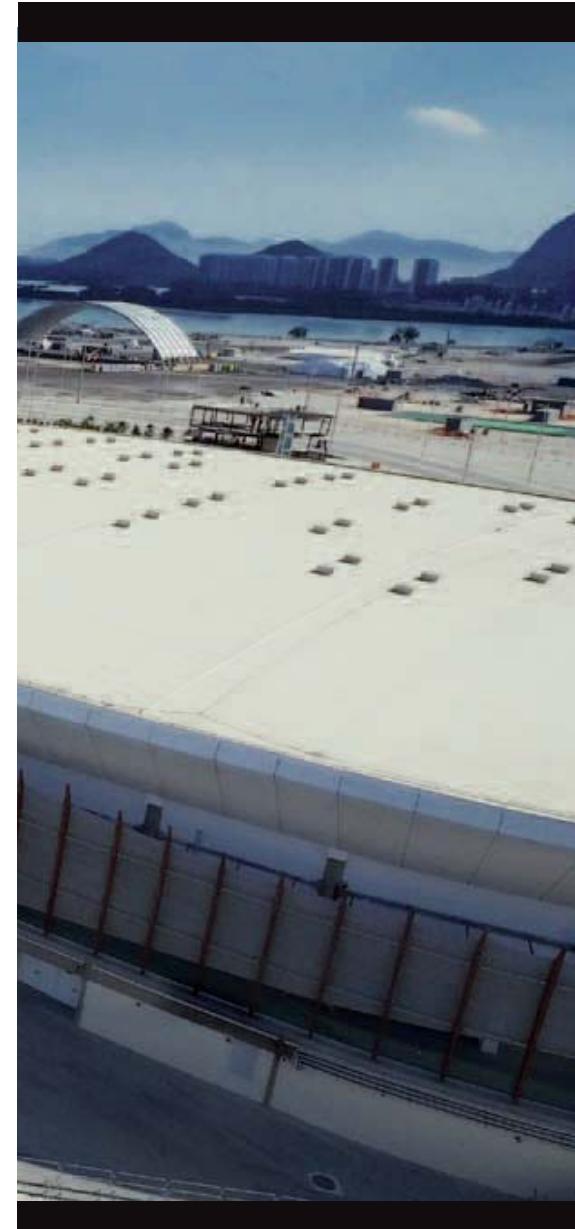
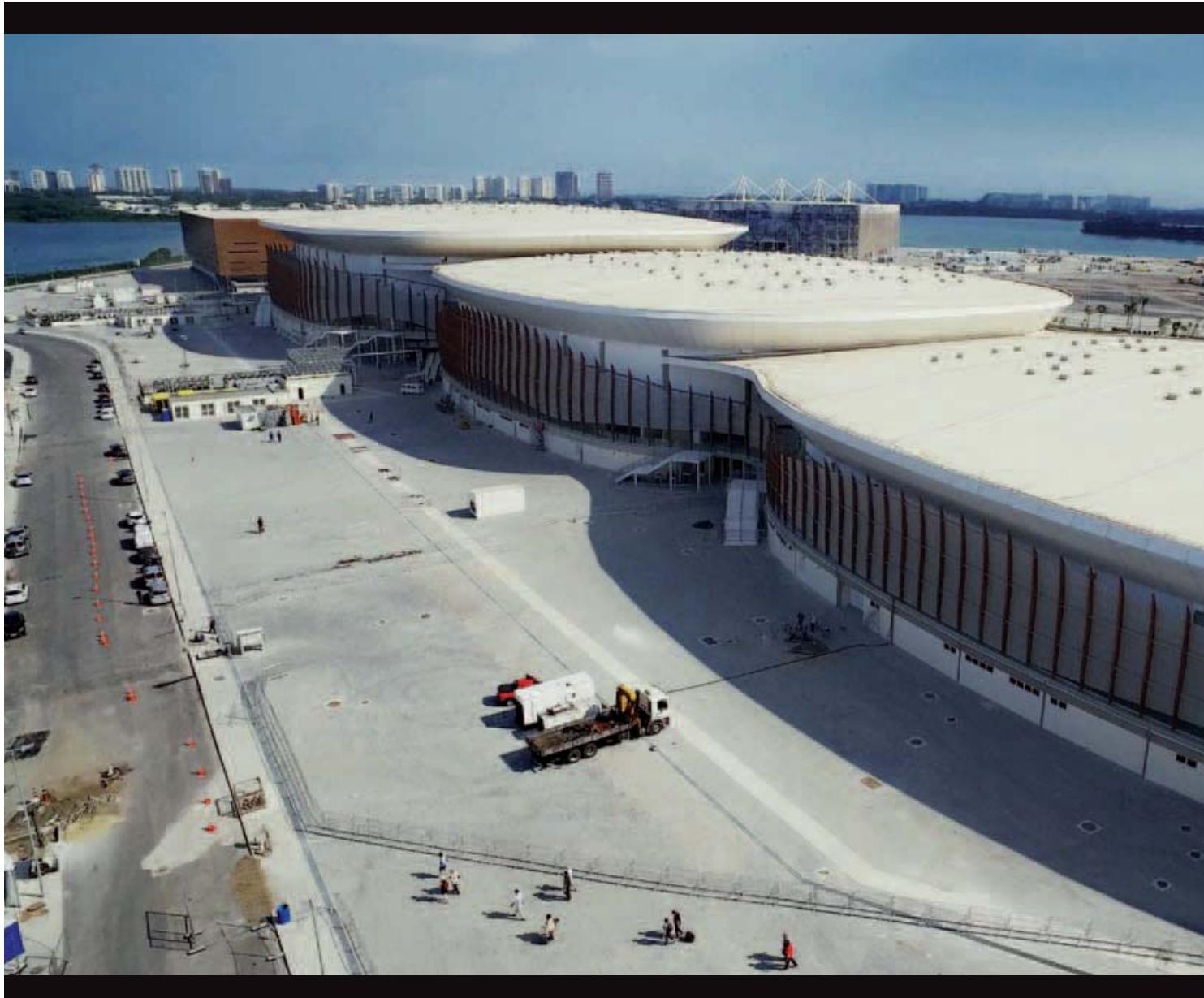
m²

13.146

*Engineering: Assad Desarrollo*

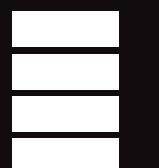
CARIOCA ARENAS

23



STRUCTURE/STRUCTURE/ESTRUCTURA

GLULAM
CHARPENTES EN BOIS LAMELLÉ
MADERA LAMINADA



CITY/VILLE/CIUDAD

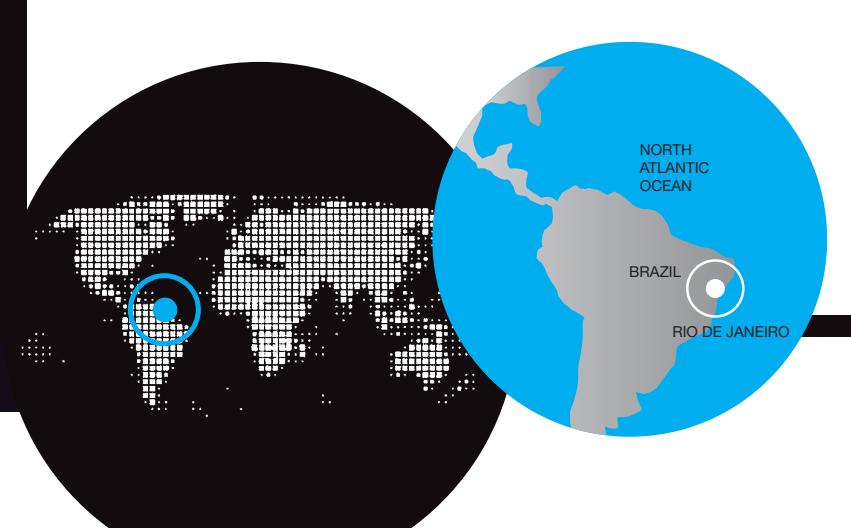
RIO DE JANEIRO

COUNTRY/PAYS/PAÍS

BRAZIL

m²

270

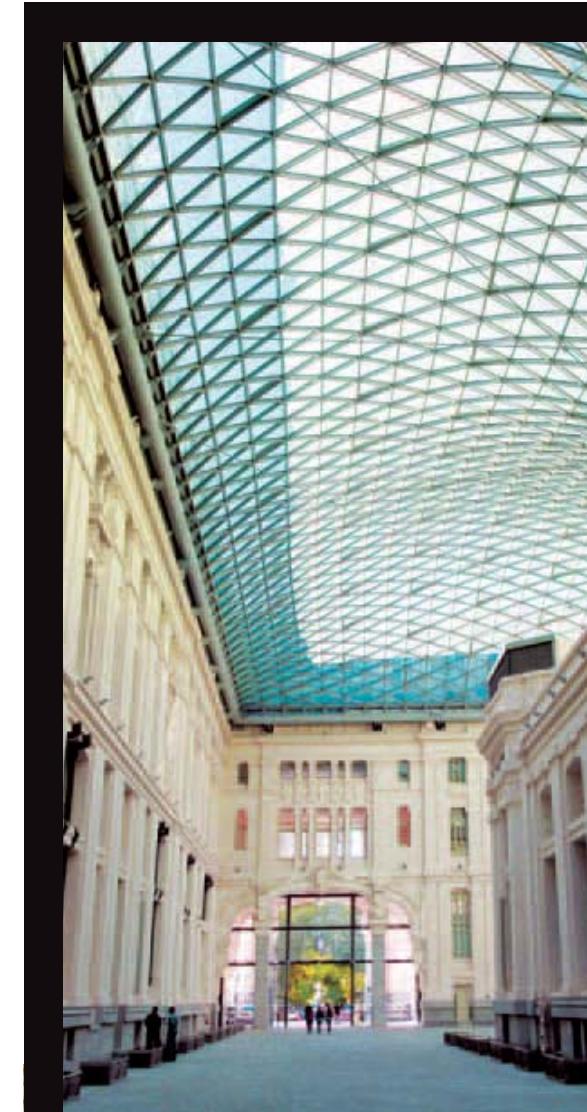


Client: Rio Mais // Architect: Arqhos

CIBELES PALACE



Architect: Aquimática



STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA



CITY/VILLE/CIUDAD

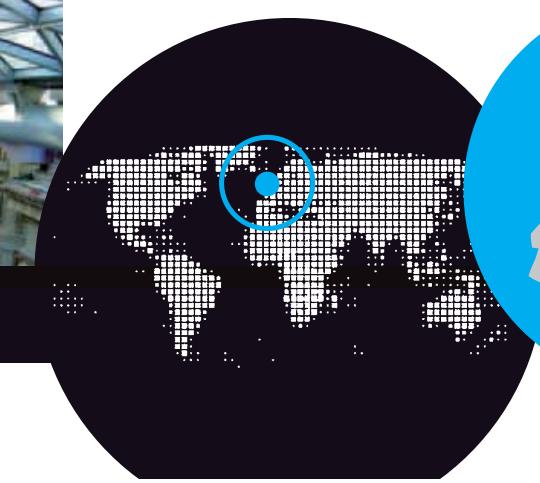
MADRID

COUNTRY/PAYS/PAÍS

SPAIN

m²

2.885

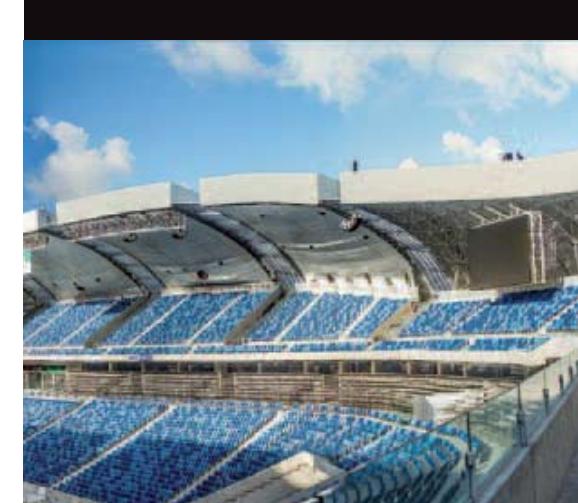


ARENA DAS DUNAS



Client: OAS // Architect: Populous

26



STRUCTURE/STRUCTURE/ESTRUCTURA



SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL

CITY/VILLE/CIUDAD

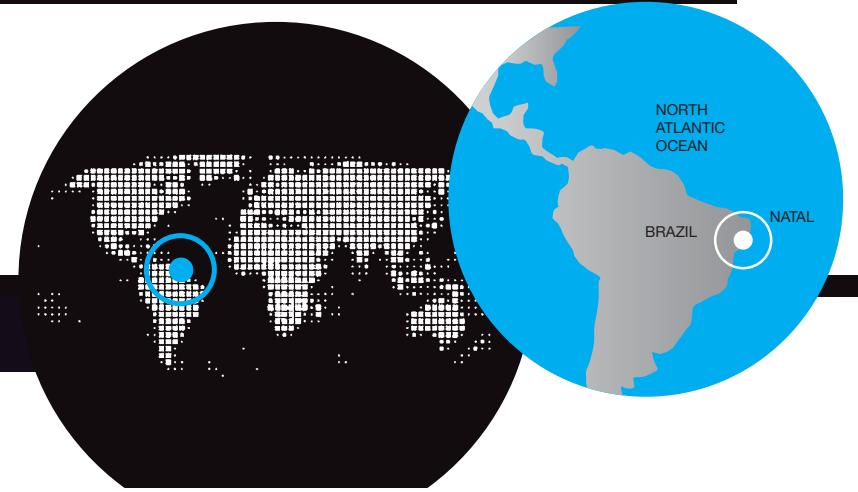
NATAL

COUNTRY/PAYS/PAÍS

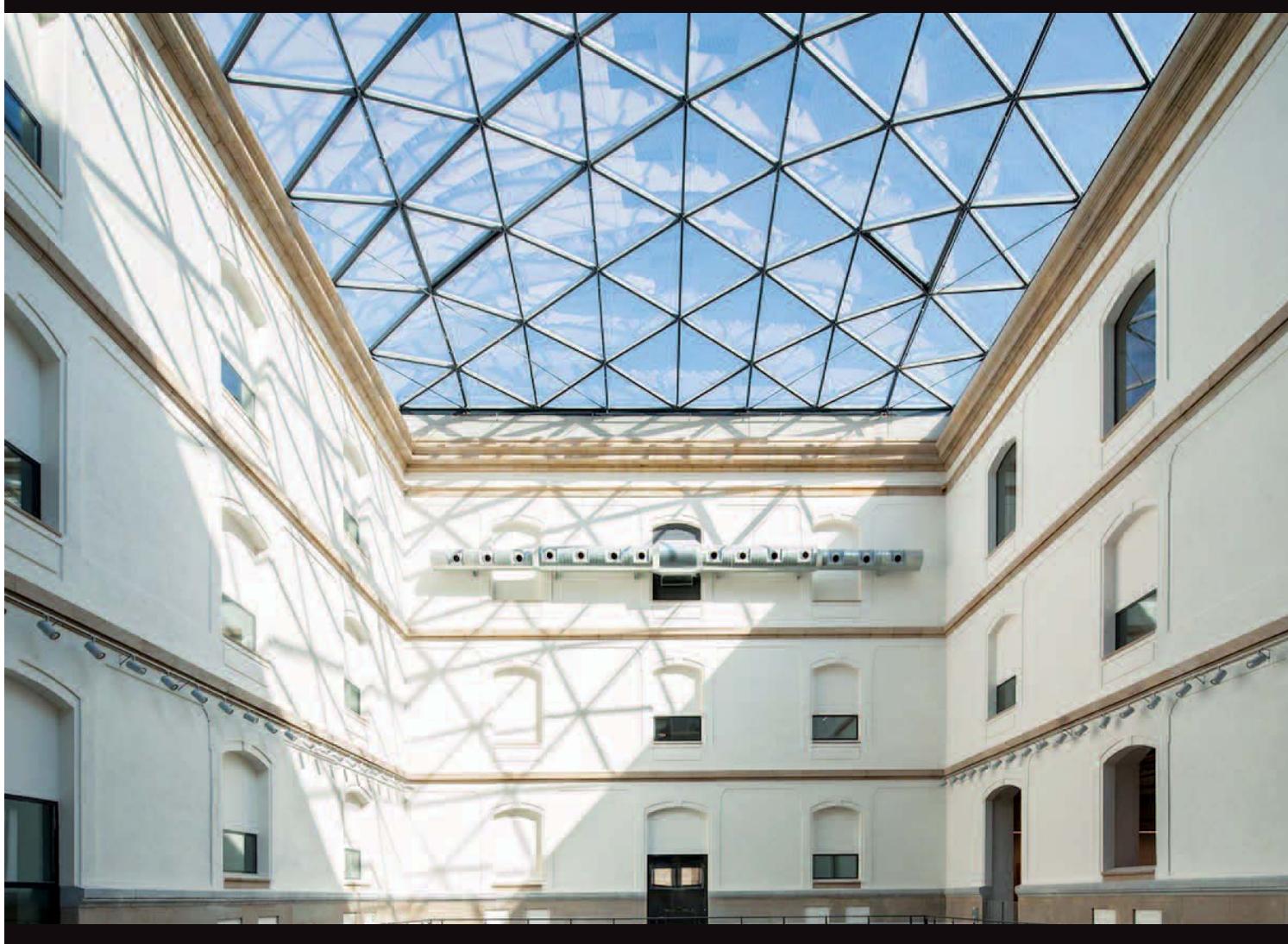
BRAZIL

m²

28.400



TABAKALERA



Client: Ute tabaka

STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA

CITY/VILLE/CIUDAD

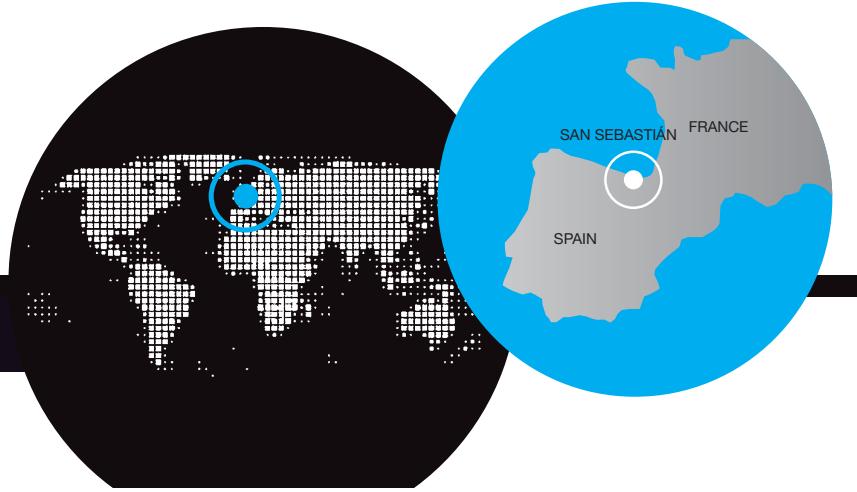
SAN SEBASTIÁN

COUNTRY/PAYS/PAÍS

SPAIN

m²

600



AQUARIO DO PANTANAL



STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER & SPACE FRAME

STRUCTURE

STRUCTURE MONOCOUCHE

& SPATIALE

ESTRUCTURA MONOCAPA Y ESPACIAL



CITY/VILLE/CIUDAD

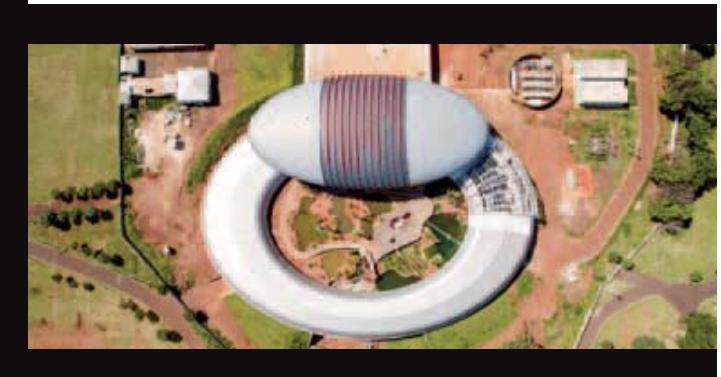
MATO GROSSO DO SUL

COUNTRY/PAYS/PAÍS

BRAZIL

m²

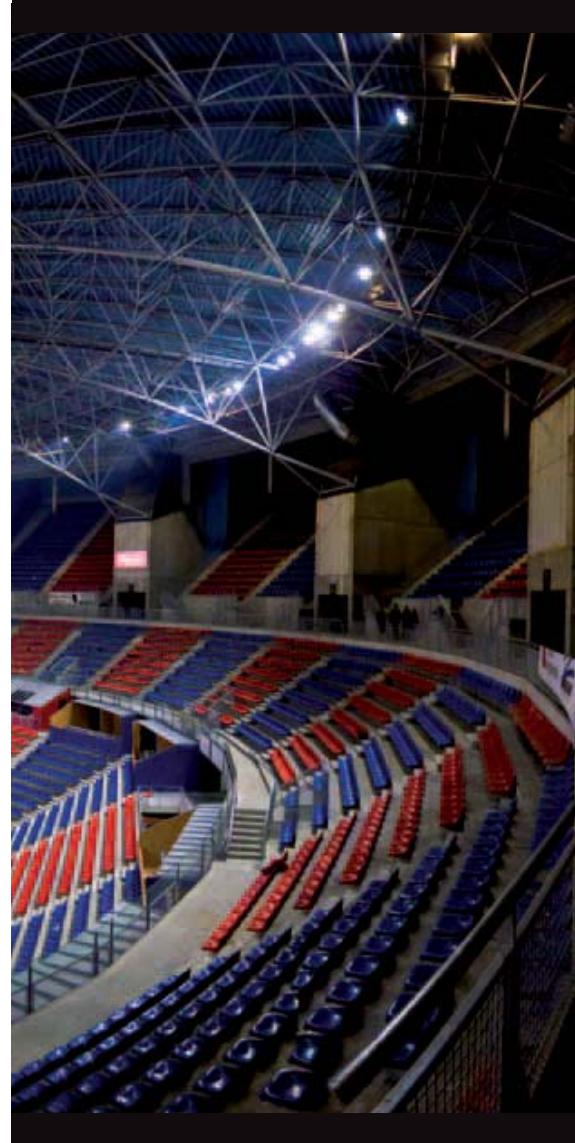
5.300



Architect: Ruy Ohtake

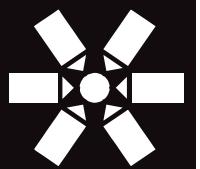


BUESA ARENA



STRUCTURE/STRUCTURE/ESTRUCTURA

SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL



CITY/VILLE/CIUDAD

VITORIA

COUNTRY/PAYS/PAÍS

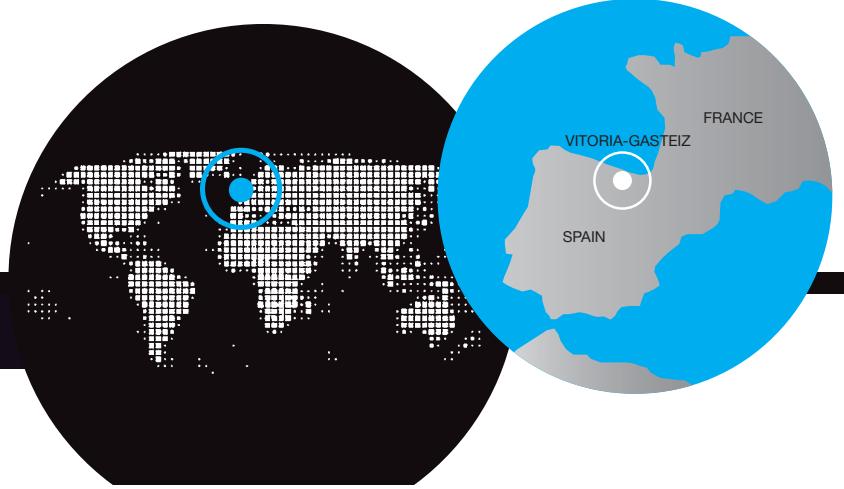
SPAIN

m²

15.020



Architect: José Luis Catón



ITAIPAVA ARENA PERNAMBUCO



STRUCTURE/STRUCTURE/ESTRUCTURA

SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL



CITY/VILLE/CIUDAD

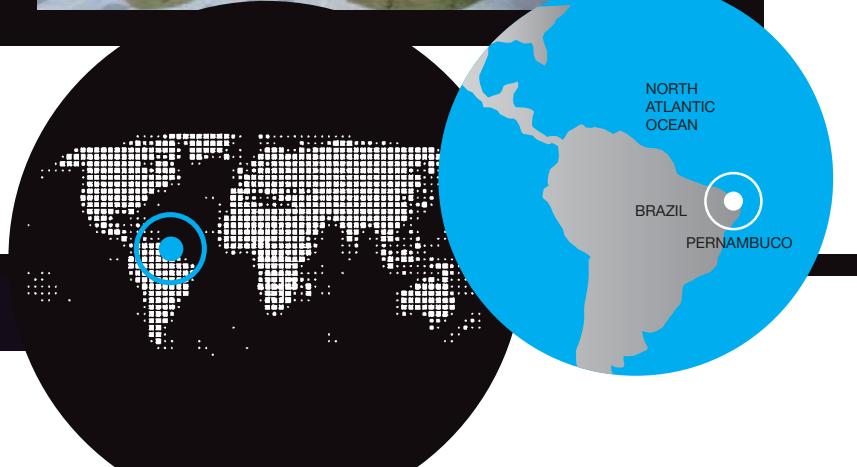
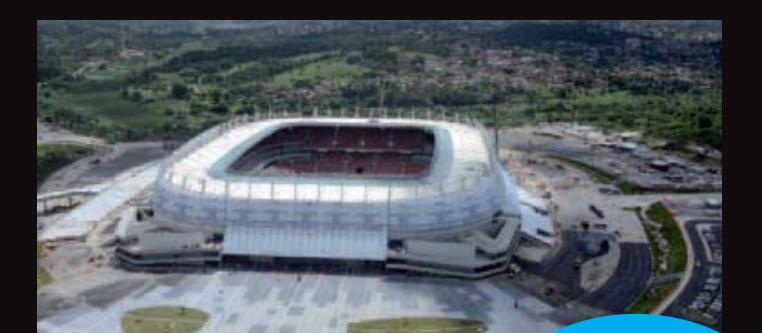
RECIFE

COUNTRY/PAYS/PAÍS

BRAZIL

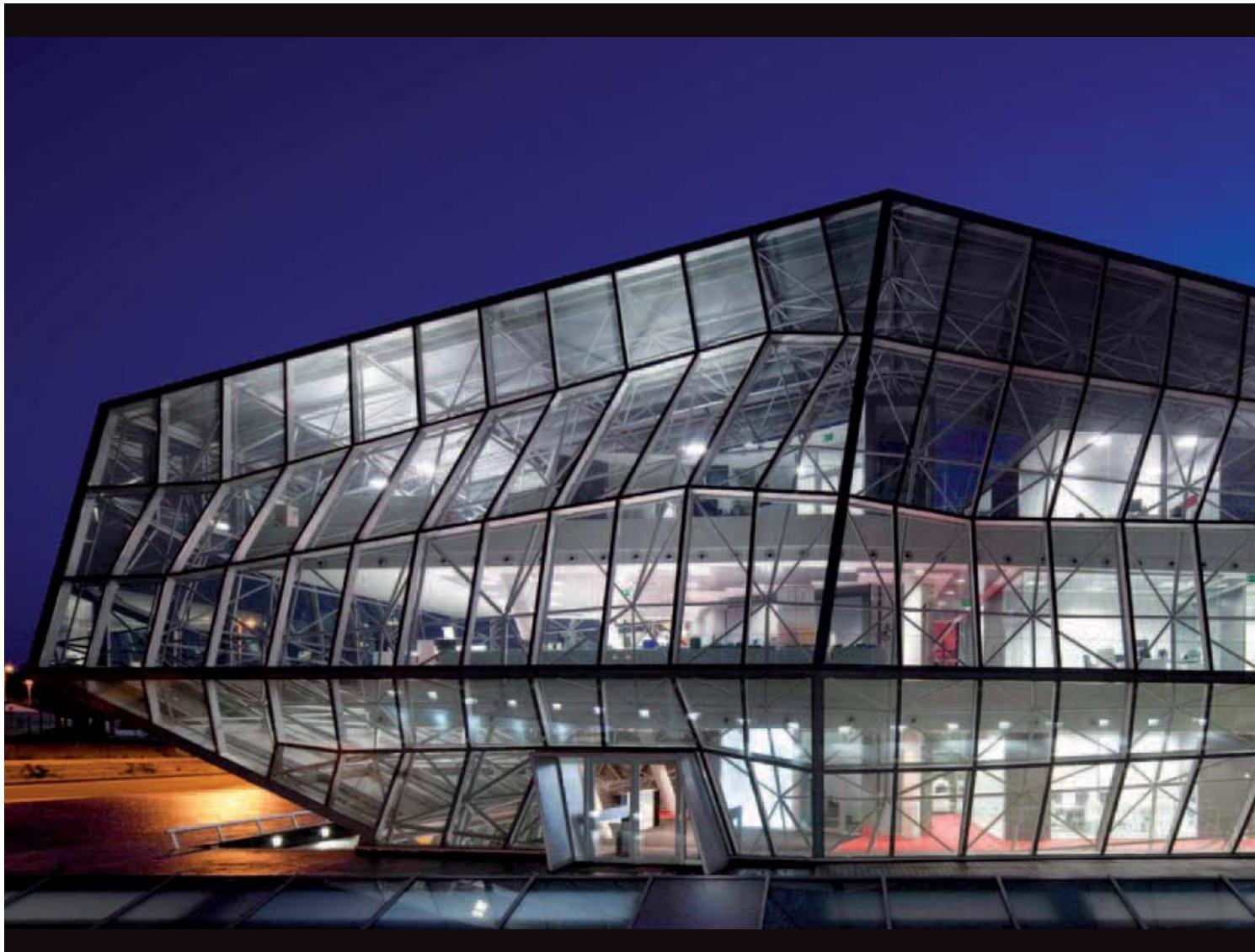
m²

19.636



Client: Odebrecht // Architect: Daniel Fernandes

AMBAR BUILDING

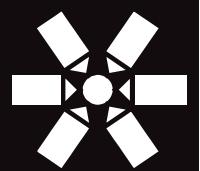


Architect: Sobrellano Architects



STRUCTURE/STRUCTURE/ESTRUCTURA

SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL



CITY/VILLE/CIUDAD

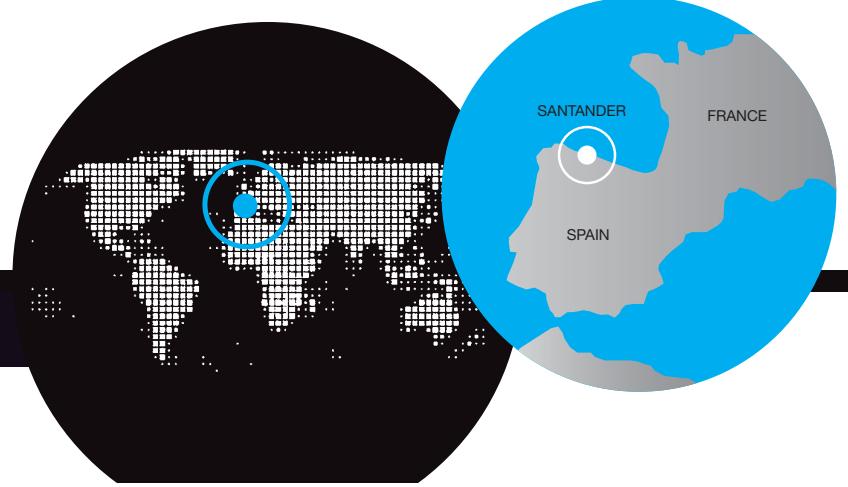
SANTANDER

COUNTRY/PAYS/PAÍS

SPAIN

m²

1.888

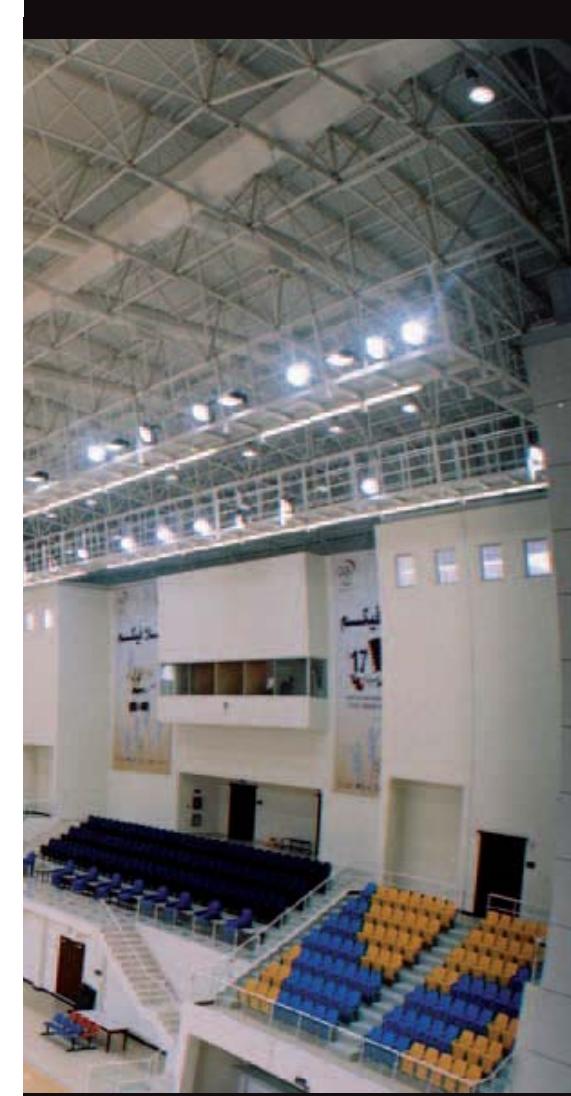




AL-RAYYAN & AL-ITIHAD SPORTS HALLS

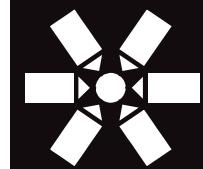


Client: Qatar Olympic Committee



STRUCTURE/STRUCTURE/ESTRUCTURA

SPACE FRAME
STRUCTURE SPATIALE
ESTRUCTURA ESPACIAL



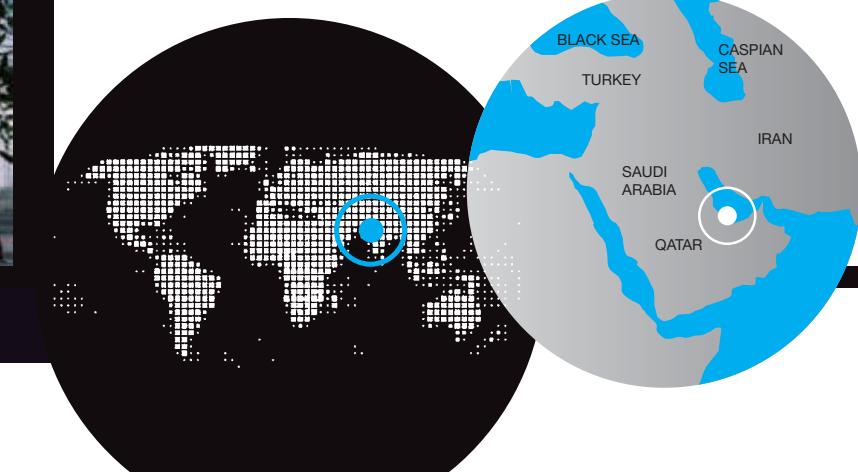
CITY/VILLE/CIUDAD

AL-RAYYAN
COUNTRY/PAYS/PAIS

QATAR

m²

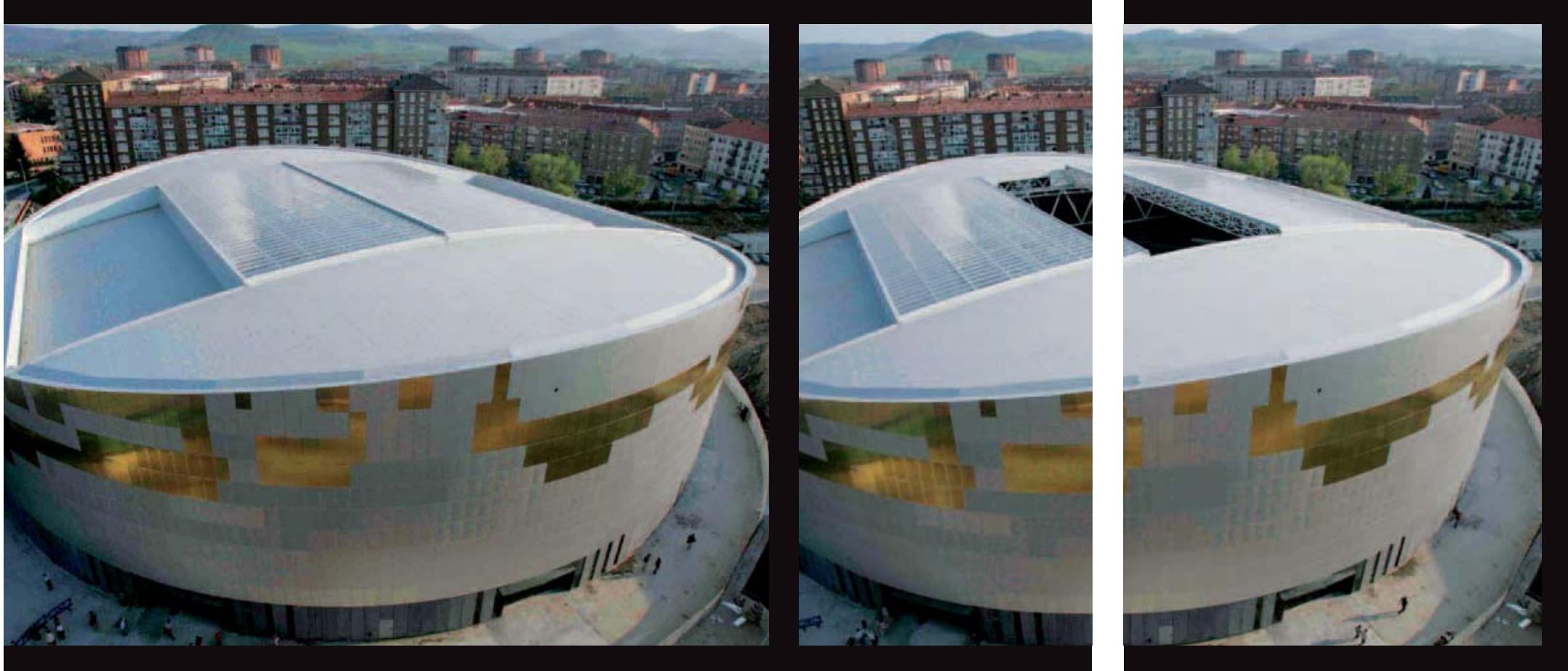
10.488





IRADIER ARENA

41



STRUCTURE/STRUCTURE/ESTRUCTURA

RETRACTABLE STRUCTURE
STRUCTURE RÉTRACTILE
ESTRUCTURA RETRÁCTIL



CITY/VILLE/CIUDAD

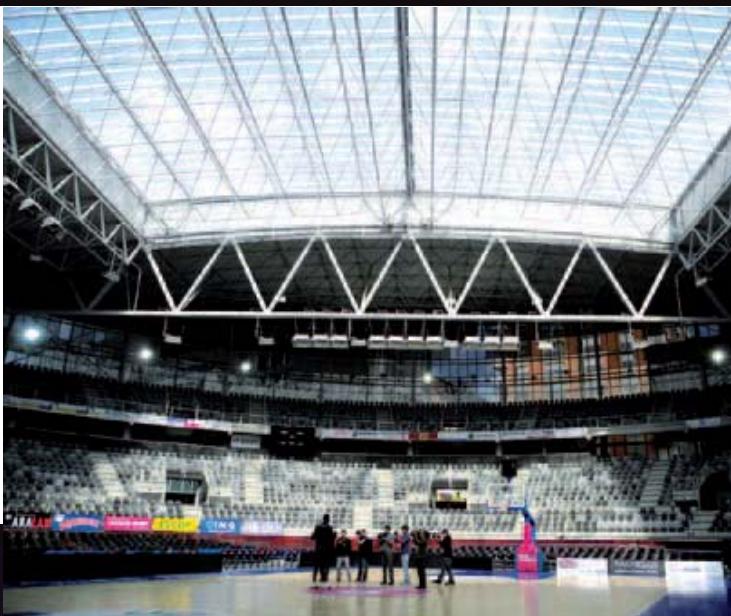
VITORIA

COUNTRY/PAYS/PAÍS

SPAIN

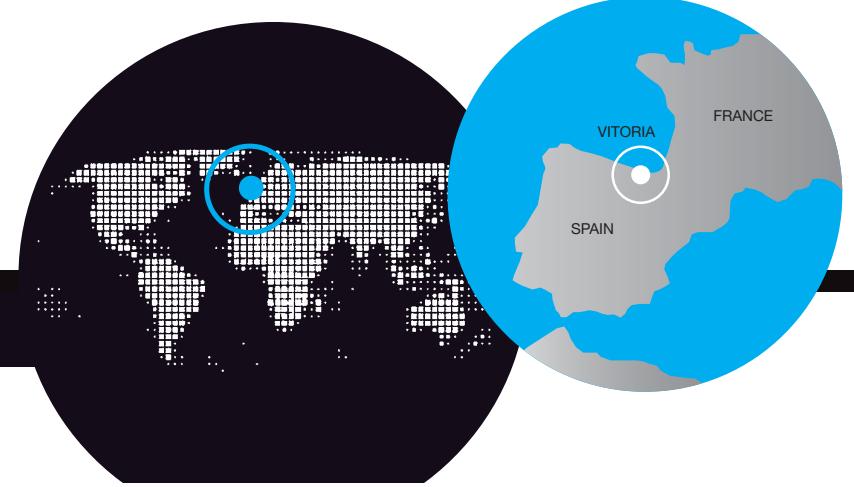
m²

5.890



Client: Fcc construcción

40



PETROBRAS HEADQUARTERS

43



Client: Construcap Engenharia

42

STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA



CITY/VILLE/CIUDAD

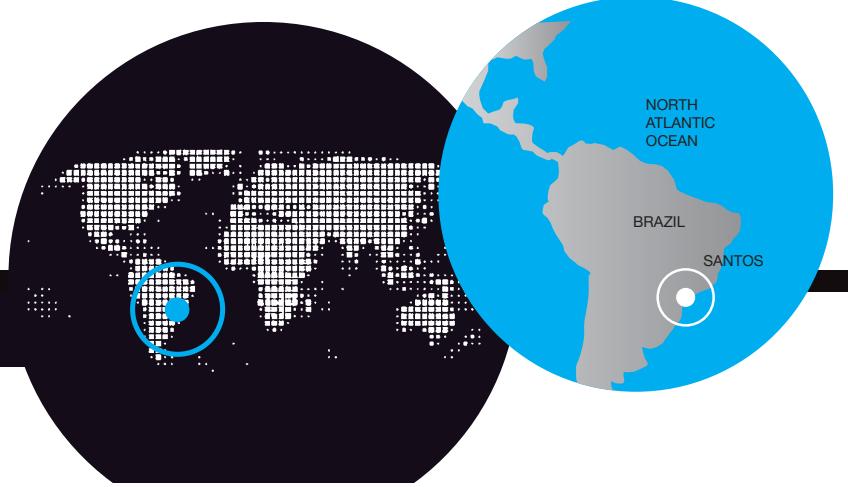
SANTOS

COUNTRY/PAYS/PAÍS

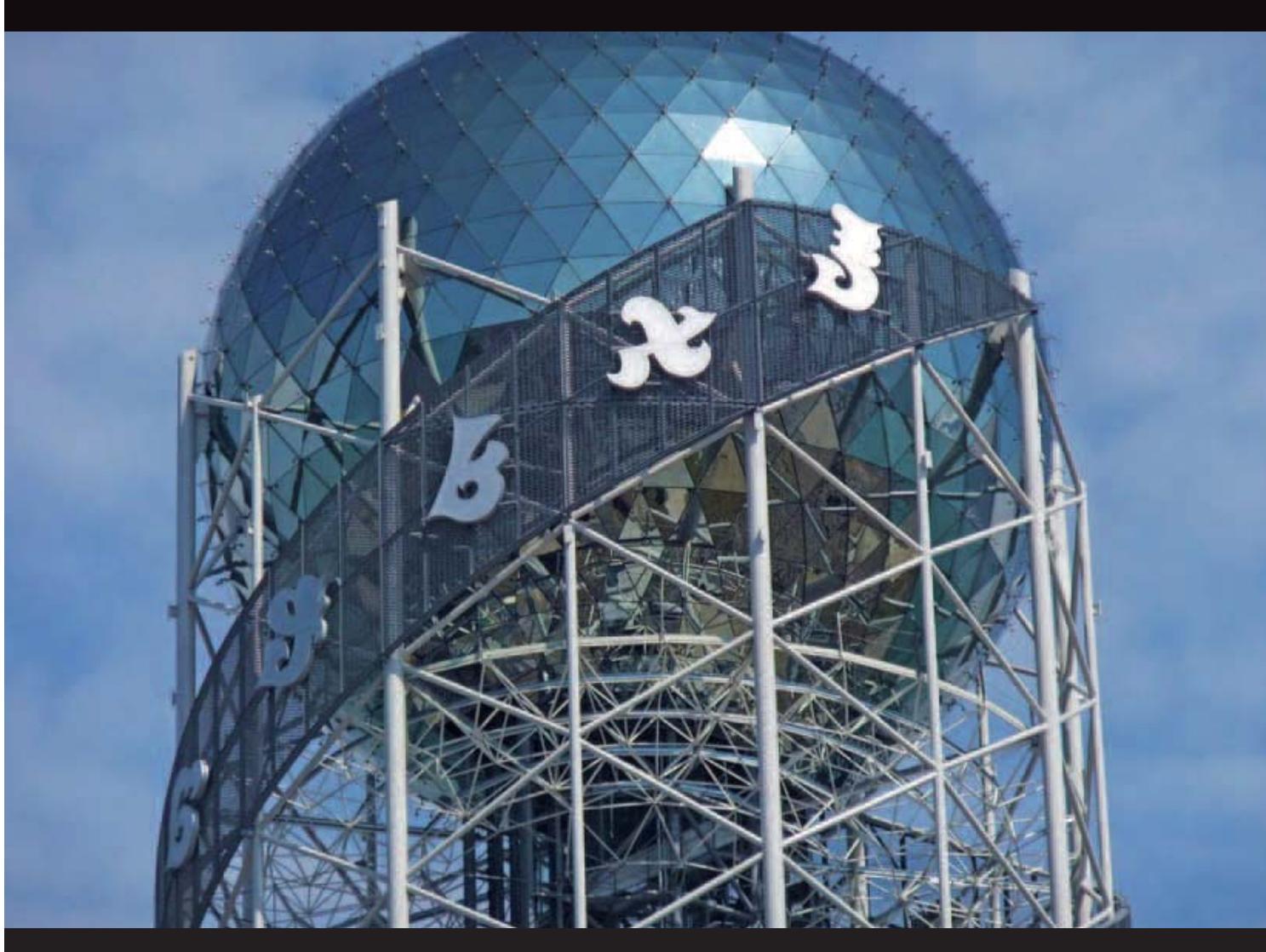
BRAZIL

m²

3.127



ALPHABETIC TOWER

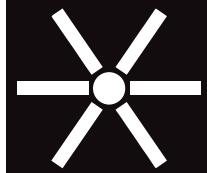


Client: CMD Ingenieros



STRUCTURE/STRUCTURE/ESTRUCTURA

SINGLE-LAYER STRUCTURE
STRUCTURE MONOCOUCHE
ESTRUCTURA MONOCAPA



CITY/VILLE/CIUDAD

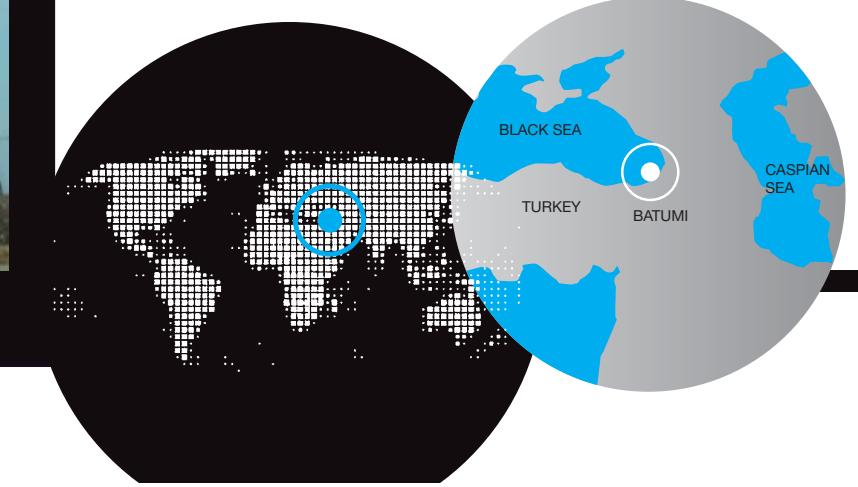
BATUMI

COUNTRY/PAYS/PAIS

GEORGIA

m²

2.200



45

MORE THAN 1.800 PROJETS

PLUS DE 1.800 PROJETS
MÁS DE 1.800 PROYECTOS



MORE THAN
2,5 MILLION sq. metres
PLUS DE 2,5 MILLIONS de m² // MÁS DE 2,5 MILLONES m²

MORE THAN
40 COUNTRIES
AROUND THE WORLD

PLUS DE 40 PAYS DANS LE MONDE
MÁS DE 40 PAISES EN EL MUNDO

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AUGMENTED REALITY

View our patented structural systems on your cell phone thanks to our augmented reality application.

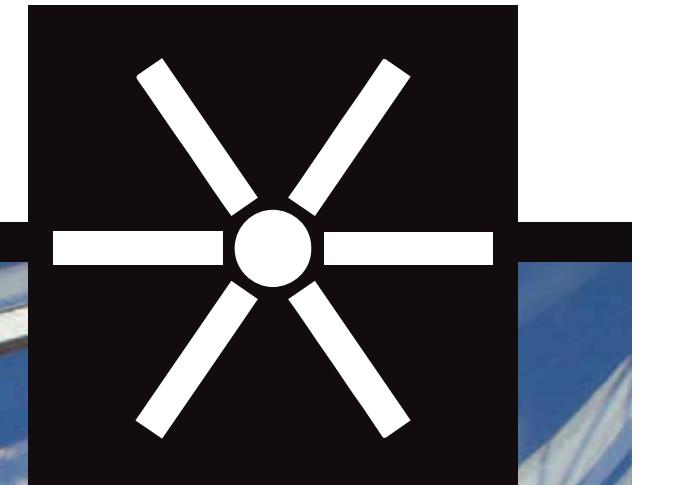
Voir notre technologie brevetée de structure sur votre téléphone portable grâce à notre application de réalité augmentée.

Vea nuestros sistemas estructurales patentados en su teléfono móvil gracias a nuestra aplicación de realidad aumentada.



SINGLE-LAYER STRUCTURE

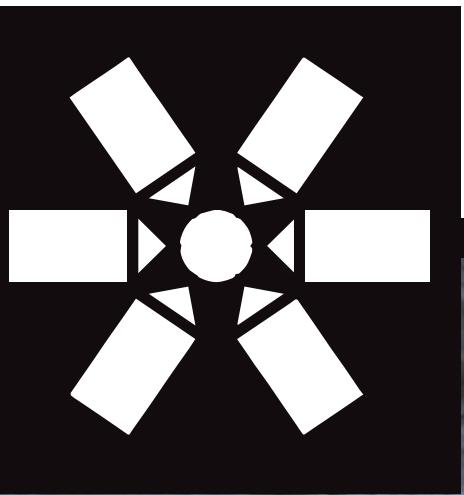
STRUCTURE MONOCOUCHE // ESTRUCTURA MONOCAPA



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LANIKAR: Disponible sur Google Play et App Store
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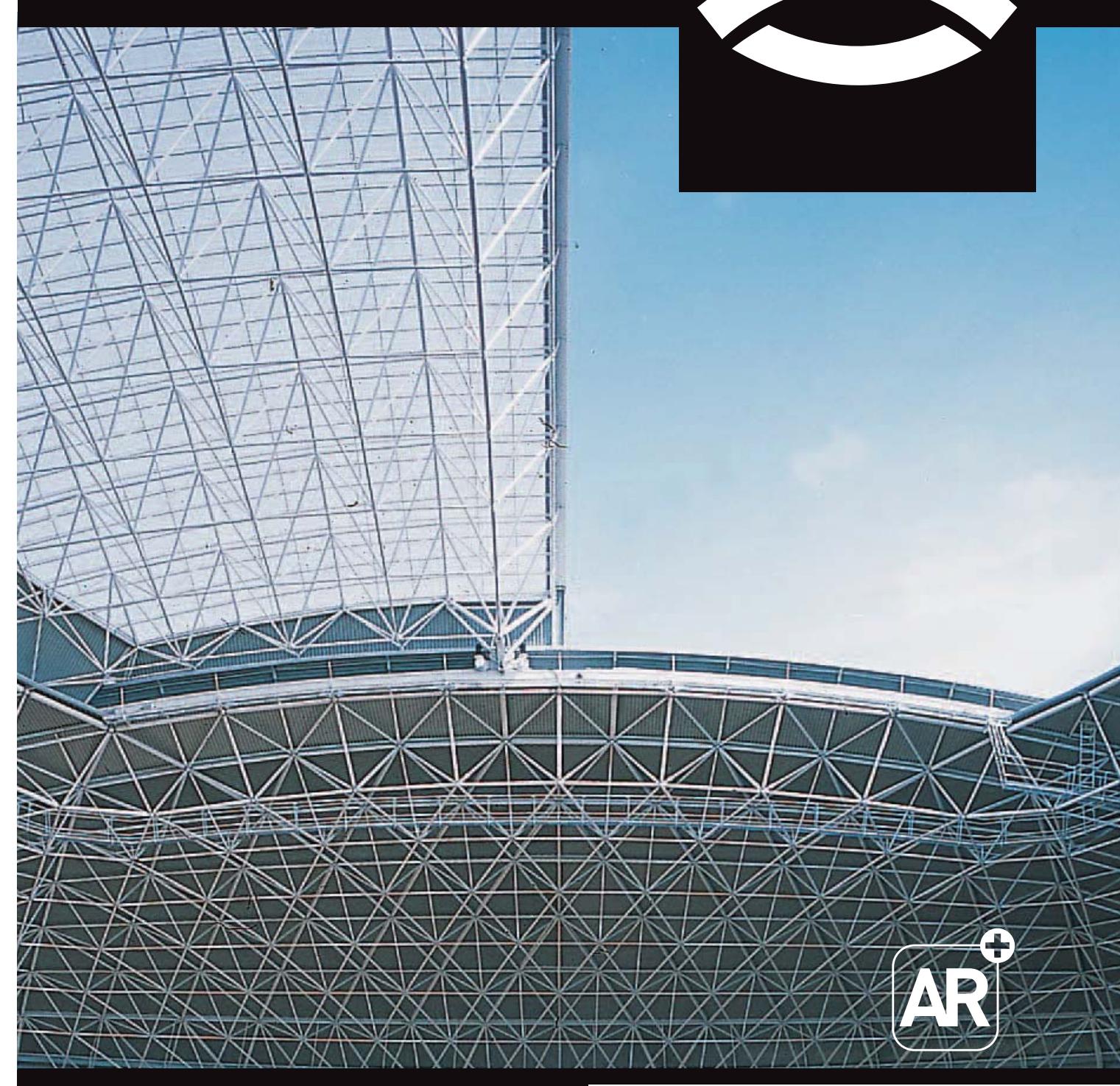
SPACE FRAME

STRUCTURE TRIDIMENSIONNELLE // ESTRUCTURA ESPACIAL



RETRACTABLE STRUCTURES

TOITURES MOBILES // ESTRUCTURAS RETRÁCTILES





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