Hi-LED 55

Seamless, modular LED video walls

Λluvision
EXHIBITS & EVENTS

Our mission is imagineering. We inspire & connect partners on their creative journey to design & build modular environments.

Aluvision is a first-generation manufacturing company where passion and drive are core elements. A family business started by a strong couple, Ann Vancoillie and Dirk Deleu. Aluvision tells a story of ambition, challenge and growth. We dare to dream, but at the same time we like a 'no-nonsense' approach. Durability, precision and high-quality finished products are the core concepts of the Aluvision story.

Founded in Belgium in 2003, Aluvision currently services more than 3000 partners worldwide. The company has large production facilities and inspiring showrooms in Deinze (BE) and Atlanta (USA).

As an innovative developer & worldwide supplier of high-quality modular systems for indoor & outdoor environments, Aluvision combines bold imagination with unmatched engineering and manufacturing expertise.

Original manufacturer of the Aluvision system.

Create a powerful visual experience

Boost your presence! With Aluvision's integrated LED video walls, an extra dimension has been added to the renowned, original Aluvision frame system. The Hi-LED 55 is the most versatile tile that can be incorporated into a modular building system. Its unique dimensions of 496x496x55 mm allow a seamless integration of LED screens into the modular constructions. The combination of the Hi-LED 55 and the Aluvision frames offers a light-weight, sleek, easy-to-install, yet very solid end result. Enjoy a brilliant visual experience guaranteed by the 2.8 and 2.5 pixel pitch, CrystalView technology and premium level flatness.

Why choose Hi-LED 55?

- ☑ Straight & curved LED tiles for walls, ceilings and floors
- ☑ Advanced all-in-one design
- ☑ Quick, easy and toolless installation
- ☑ Full front & rear maintenance (both LED modules and power box)
- ☑ Raised flooring system
- ☑ One tile, endless solutions: Hi-LED 55+
- ☑ Specially developed flight cases for secure transportation
- ☑ Endless possibilities for assembly, including concave and convex mounting

Straight tiles

The most versatile LED tile available for seamless integration in a modular system. The patented, matte black click mask and black faced LEDs guarantee optimal contrast, ensuring vivid, crisp images and a supreme image quality.
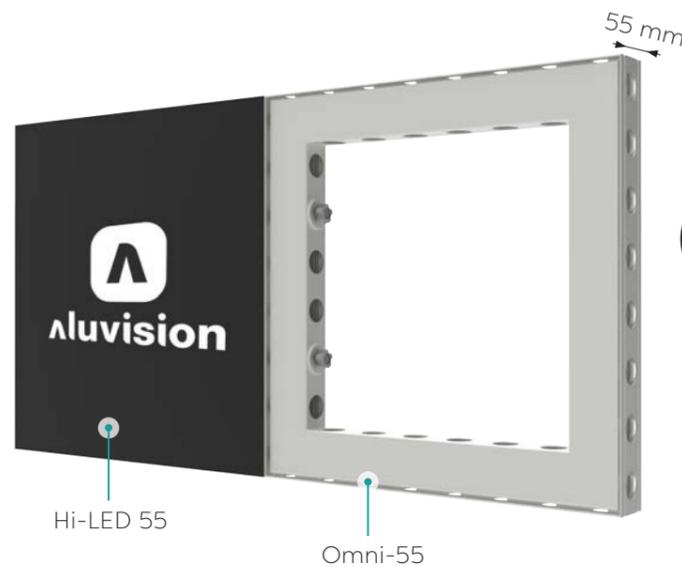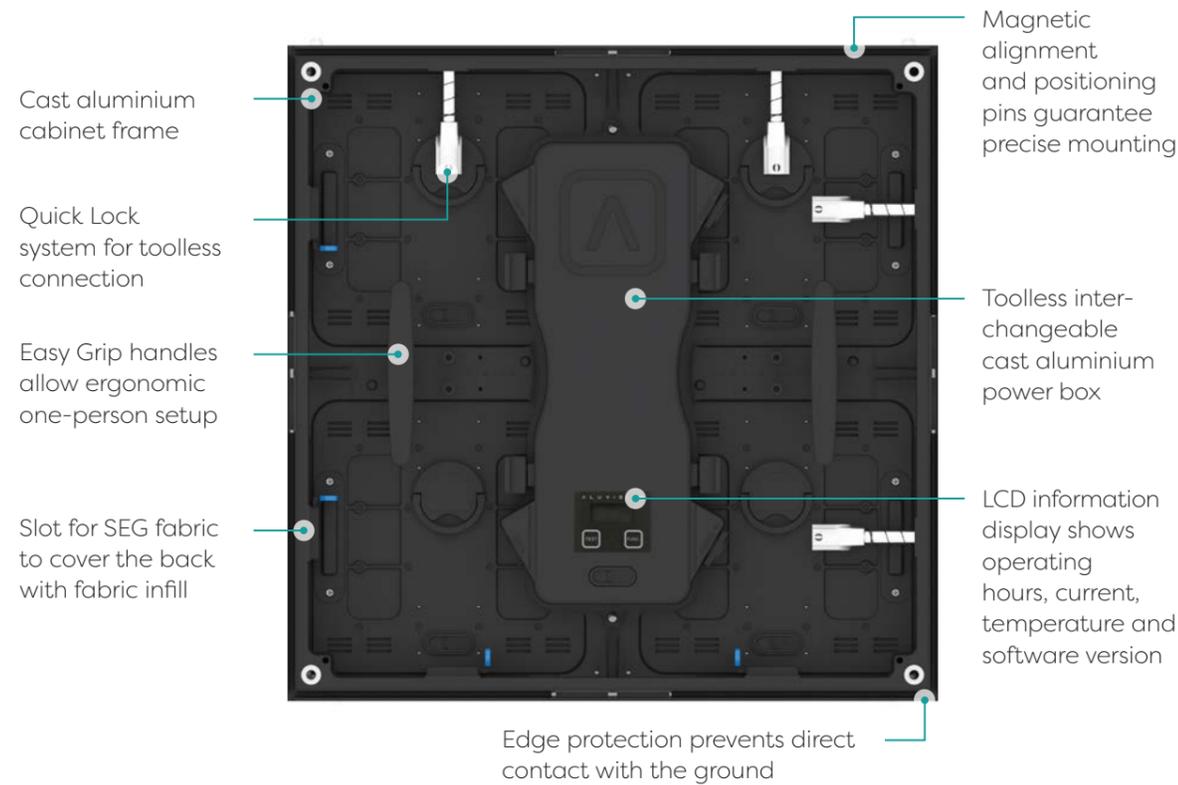
Unique dimensions: 496x496x55 mm

55 mm

496 mm

496 mm

Pixel pitch: 2.8 or 2.5 mm

Advanced all-in-one design

Cast aluminium cabinet frame

Quick Lock system for toolless connection

Easy Grip handles allow ergonomic one-person setup

Slot for SEG fabric to cover the back with fabric infill

Magnetic alignment and positioning pins guarantee precise mounting

Toolless inter-changeable cast aluminium power box

LCD information display shows operating hours, current, temperature and software version

Edge protection prevents direct contact with the ground

55 mm

Hi-LED 55

Omni-55

Aluvision

Flush integration with the original Aluvision frame system
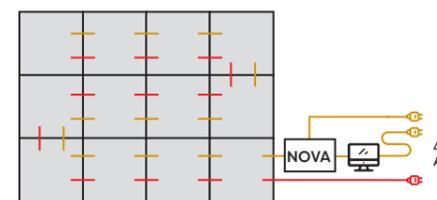
Quick and easy installation

1 Magnetic alignment & positioning pins ensure **precise mounting**

2 **Easy Grip handles** allow ergonomic one-person setup

3 Outdoor-ready and interchangeable **power box**

4 **Quick Lock system** for toolless fixation
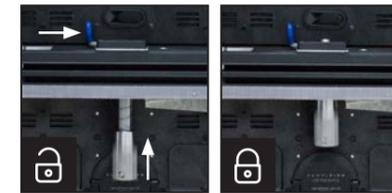
5 **Effortless wiring** with silicone rubber Super Flex power cable
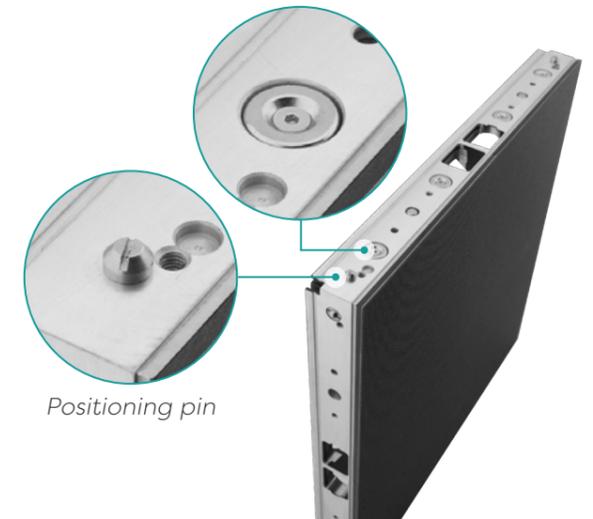
— signal/data — power

NOVA

Hi-LED 55 chain

- **Signal/data cable:** connect up to 20 cabinets (2.8) / 17 cabinets (2.5) by using 1 cable
- **Power cable:** connect up to 18 cabinets (2.8) / 17 cabinets (2.5) by using 1 cable
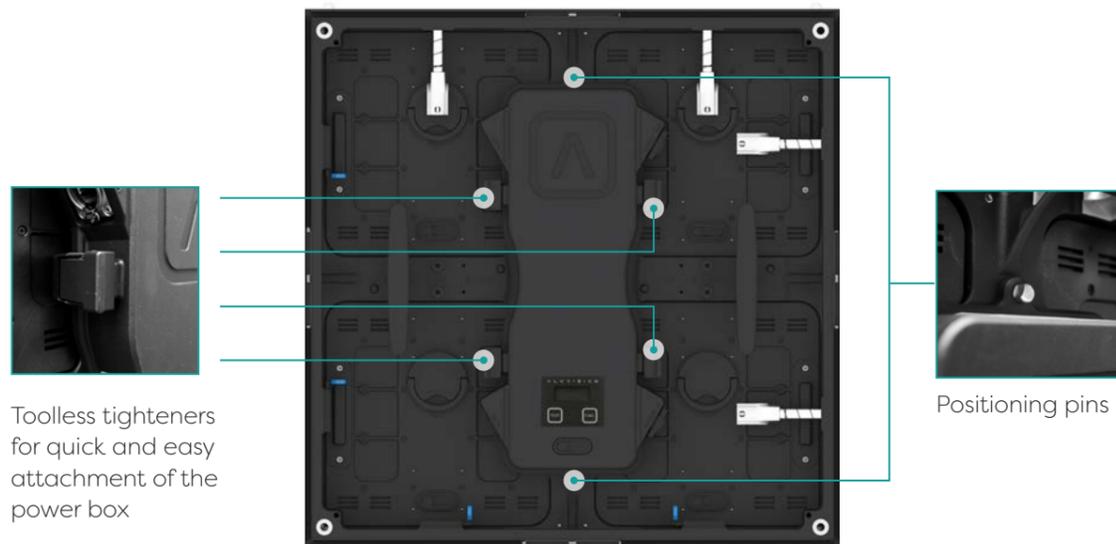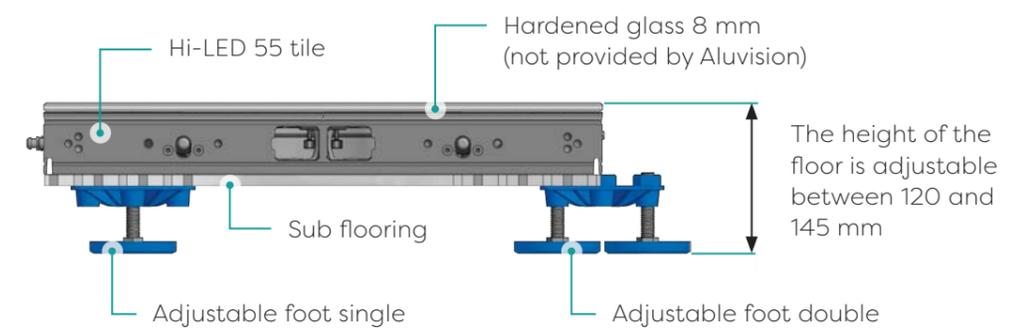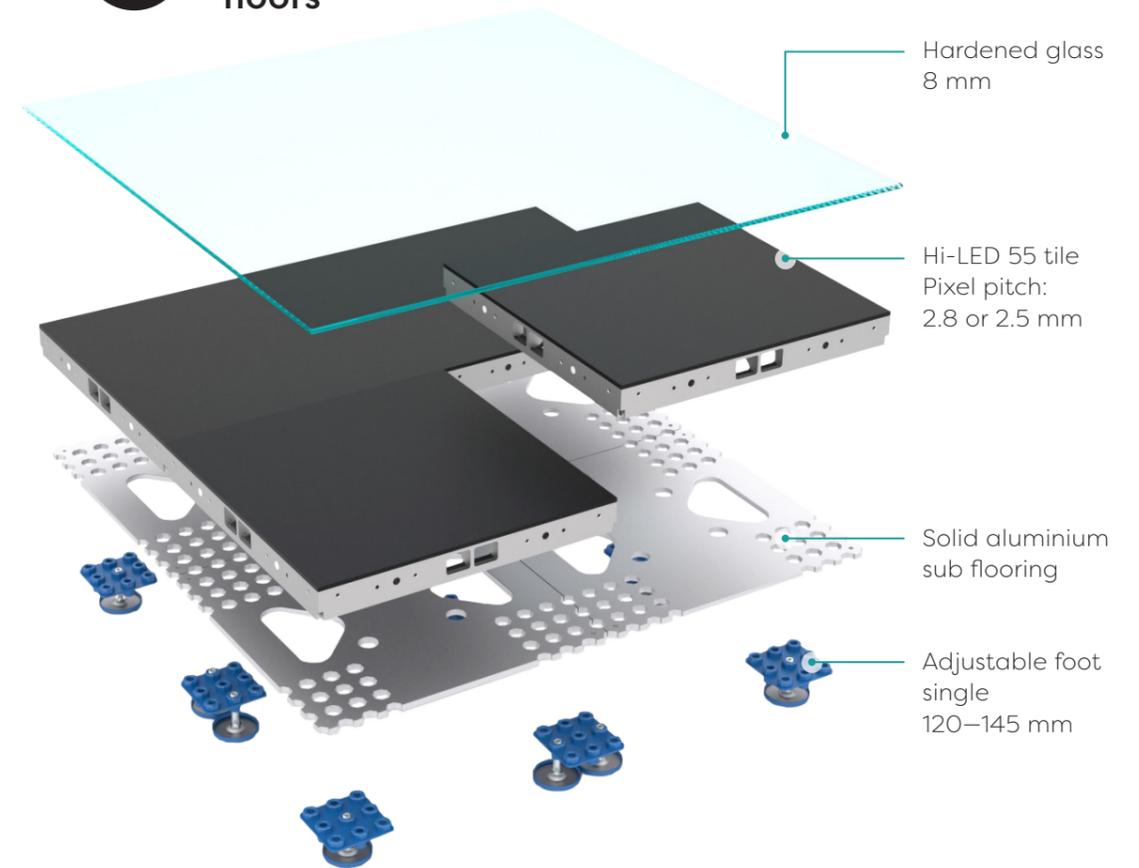- Both cables are **outdoor-ready**

Magnetic alignment

Positioning pin

Full front and rear maintenance

Raised flooring system

① ② ③

ⓘ Front and rear access to interchangeable power box and LED modules

Toolless tighteners for quick and easy attachment of the power box

Positioning pins

ⓘ Hi-LED 55 for floors

Hardened glass 8 mm

Hi-LED 55 tile
Pixel pitch: 2.8 or 2.5 mm

Solid aluminium sub flooring

Adjustable foot single 120—145 mm

Hi-LED 55 tile

Hardened glass 8 mm (not provided by Aluvision)

Sub flooring

The height of the floor is adjustable between 120 and 145 mm

Adjustable foot single
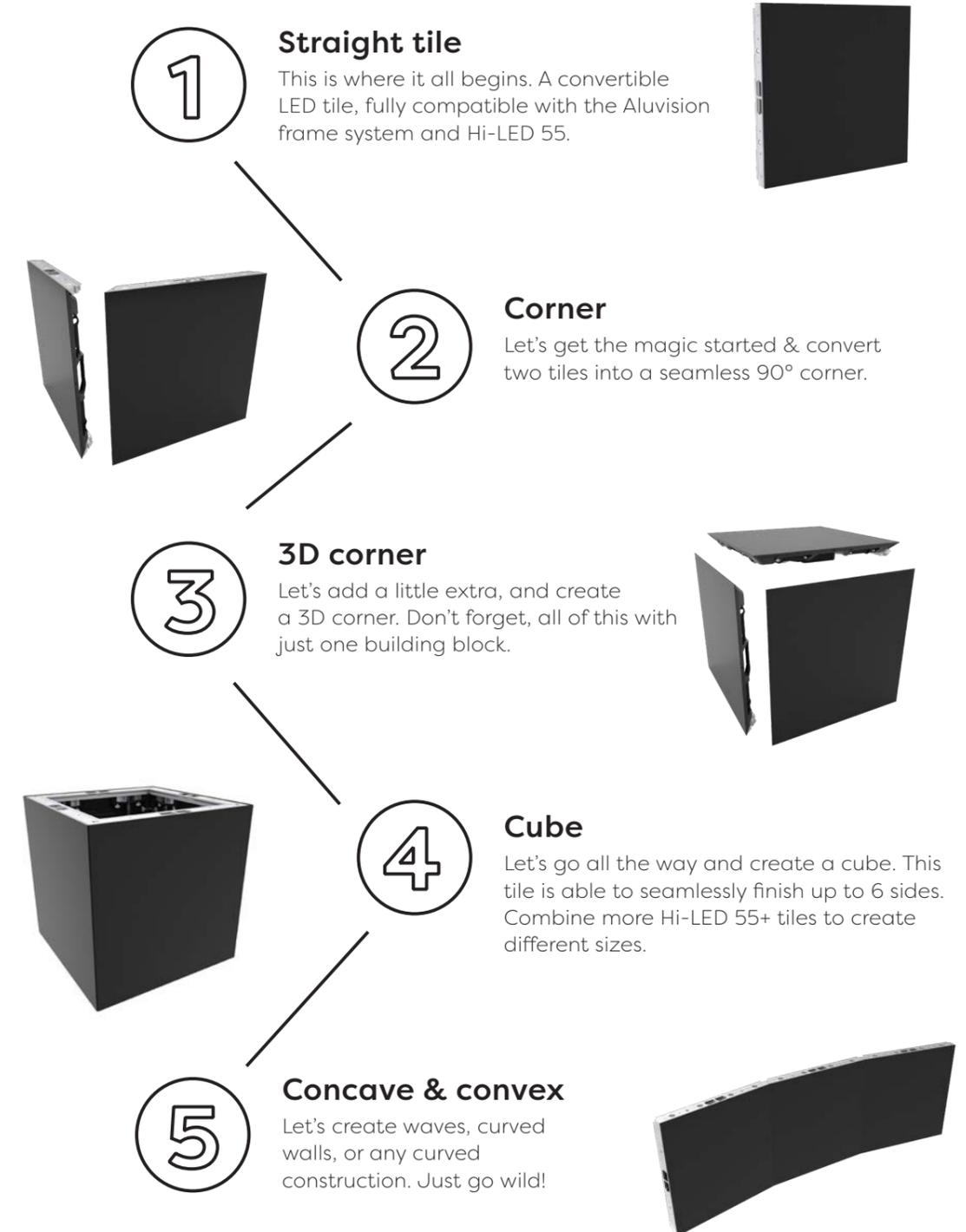
Adjustable foot double

One tile, endless solutions

DESIGN AWARD 2020
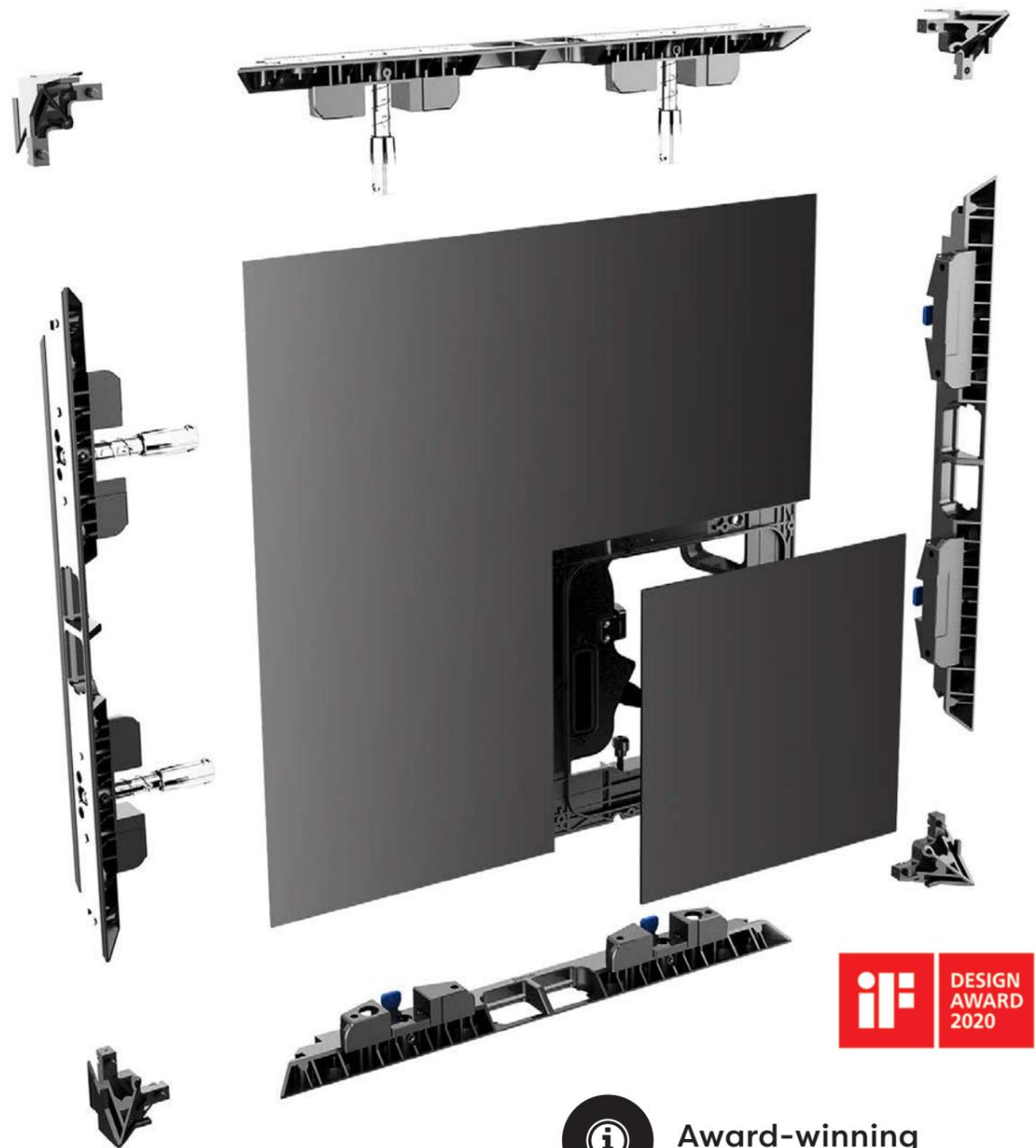
ⓘ Award-winning Hi-LED 55+

- Pitch 2.8 or 2.5 mm
- All modules have 4 chamfered sides
- Modules are compatible with Hi-LED 55
- Patented

Transform the most versatile LED tile into 5 different configurations

1 Straight tile
This is where it all begins. A convertible LED tile, fully compatible with the Aluvision frame system and Hi-LED 55.

2 Corner
Let's get the magic started & convert two tiles into a seamless 90° corner.

3 3D corner
Let's add a little extra, and create a 3D corner. Don't forget, all of this with just one building block.

4 Cube
Let's go all the way and create a cube. This tile is able to seamlessly finish up to 6 sides. Combine more Hi-LED 55+ tiles to create different sizes.

5 Concave & convex
Let's create waves, curved walls, or any curved construction. Just go wild!

A quick how to ...

(1) Remove

Disconnect one side of the aluminium cast of each tile.

(2) Choose

Corners or curves? Add a 90° connector piece to one of the tiles to create a perfect corner or add a connector piece of -5° or -7.5° to create convex walls.

(3) Connect

It's easy as 1-2-3. A quick, easy and toolless installation.

(4) Impress

A seamless 90° corner to create a new and powerful visual experience.

Secure transportation

(i) Stackable flight case for 10 LED tiles & accessories

(i) Save space and effort with practical tipping wheels

↗ Size: 1191x585x763 mm (LxWxH)

⚖ Gross weight 2.8 mm: 153 kg
Gross weight 2.5 mm: 165,8 kg
Net weight: 55 kg

(i) Hi-LED 55 module packaging box. Can hold 12 spare modules

↗ Size: 600x400x320 mm (LxWxH)

⚖ Net weight: 4,33 kg

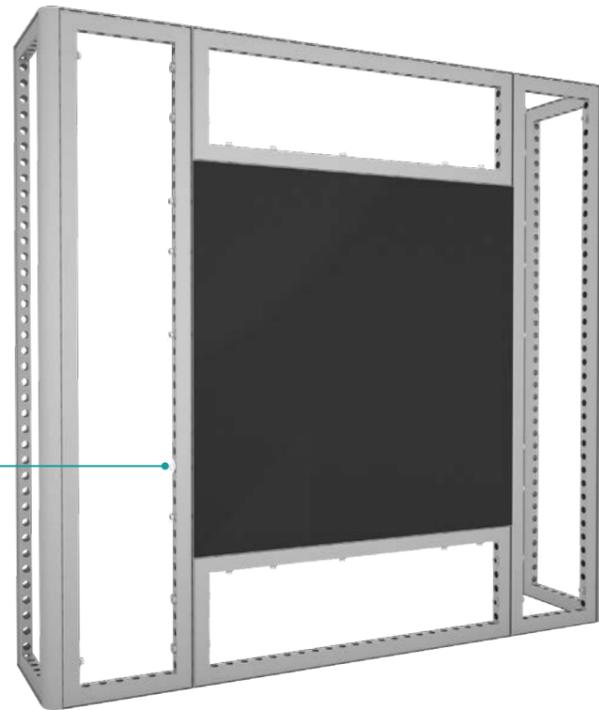**(i)** Protective cover included with every LED tile
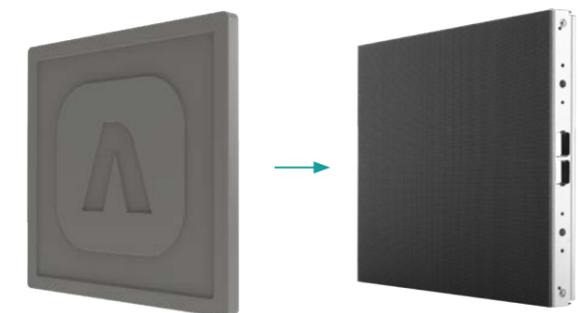
Endless options for assembly

1 **In line**

Flush integration of the video wall. Fasten with standard quick tighteners "LS M6/D30*80".

*Quick tightener "LS M6/D30*80"*

2 **Corner**

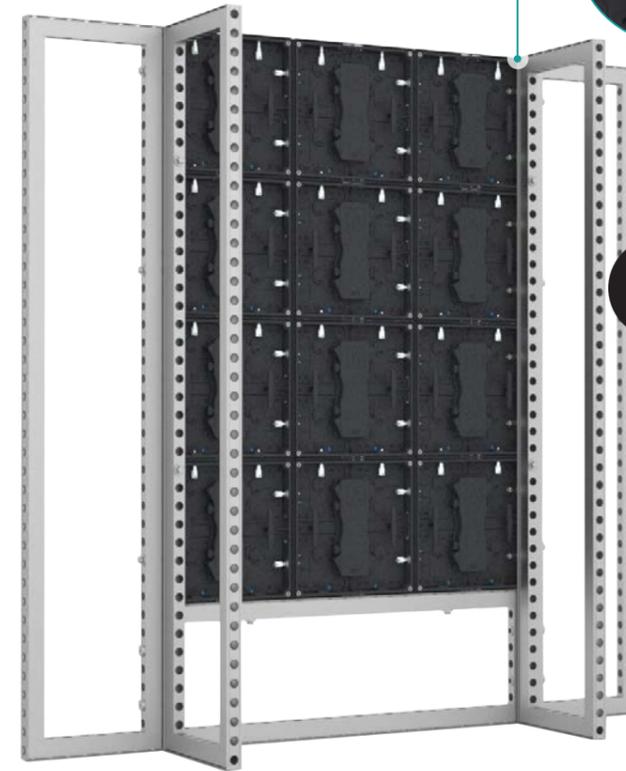Compatible with all Aluvision corner profiles. Fasten with standard quick tighteners "M6*30".

*Quick tightener "M6*30"*

C90-corner, also available in black

Hi-LED 55 X spacer

3 **Rear support**

Mount support frames in a 90° position to the back of the video wall. Fasten with standard quick tighteners "LS M6/D30*80". Place the Hi-LED 55 X Spacers in the corners of your LED tiles to keep the support frames in our modular grid.
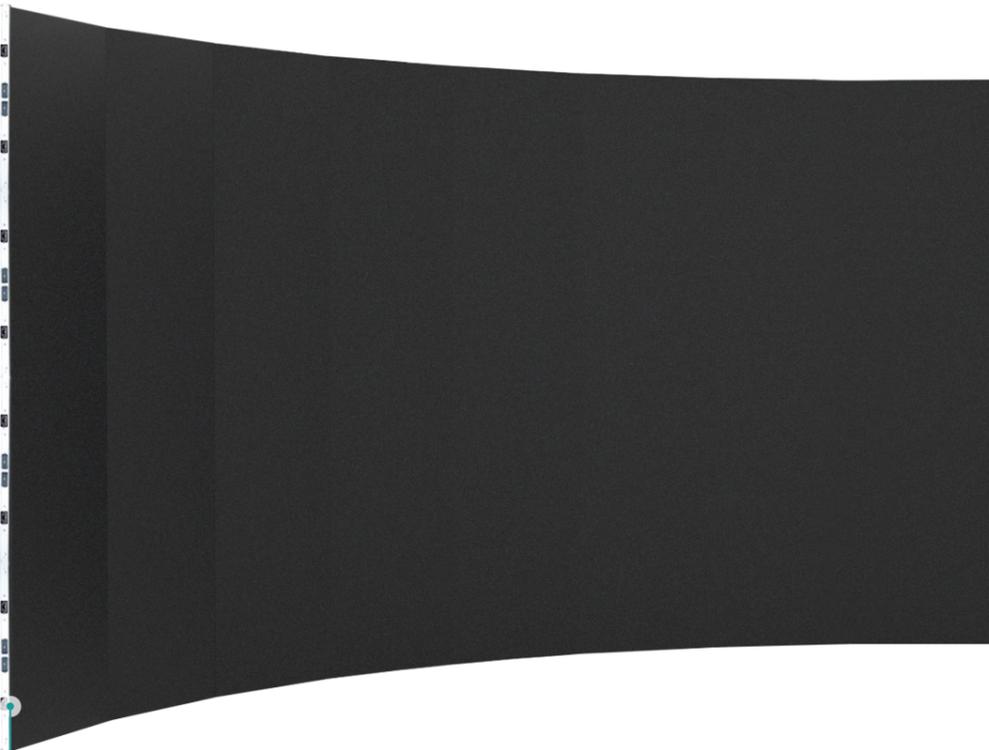

Omni-186 cover, also available in black

4 **Back-to-back**

Flawless finish with Omni-186 cover or Omni-248 cover. Fasten with standard quick tighteners "M6*30".

⑤ Curved

Use standard straight Hi-LED 55 tiles in combination with colour-coded wedges to create a concave wall.

5°= R 5685 mm
White wedge

7.5°= R 3792 mm
Grey wedge

10°= R 2845 mm
Black wedge

⑥ Suspended

Rigging bar for suspended wall & signage constructions; fixation with standard Quick Lock system.

↗ Standard lengths: 496, 992, 1488 and 1984 mm

🧲 Magnetic connection for an easy positioning onto the hanging beam
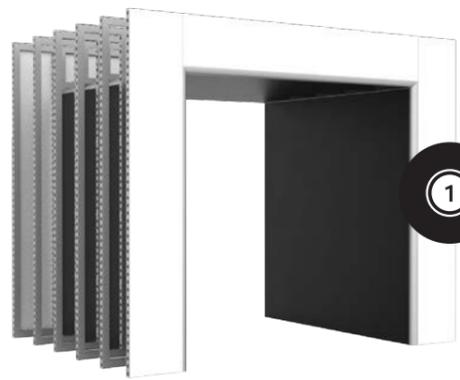
Extra opening for cable management
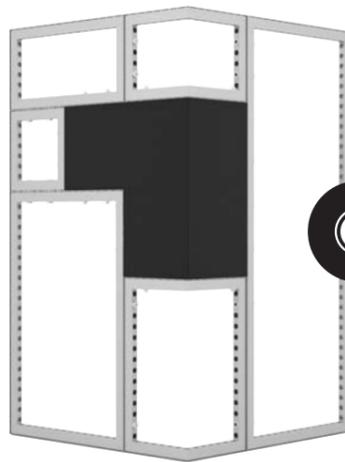
Extra opening to attach an Omni-55 frame

ⓘ Rigging bar used for ceiling constructions (hanging + reinforcement)

Assembly options examples

① Tunnel configuration walls & ceiling

② Column
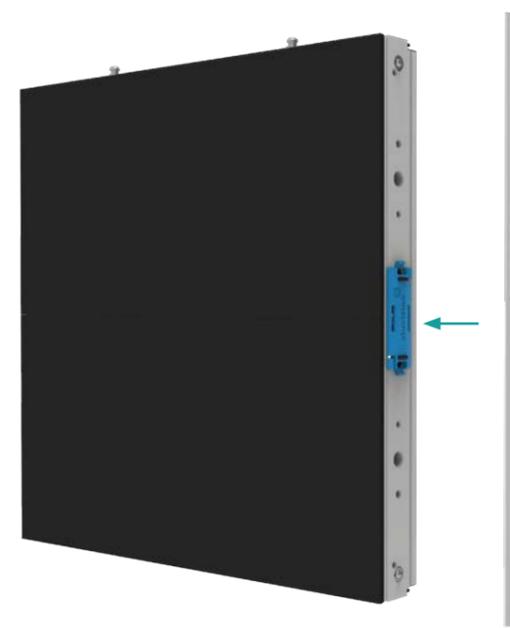
③ Corner

④ Display configuration

⑤ Immersive cube

Decorative finishing options

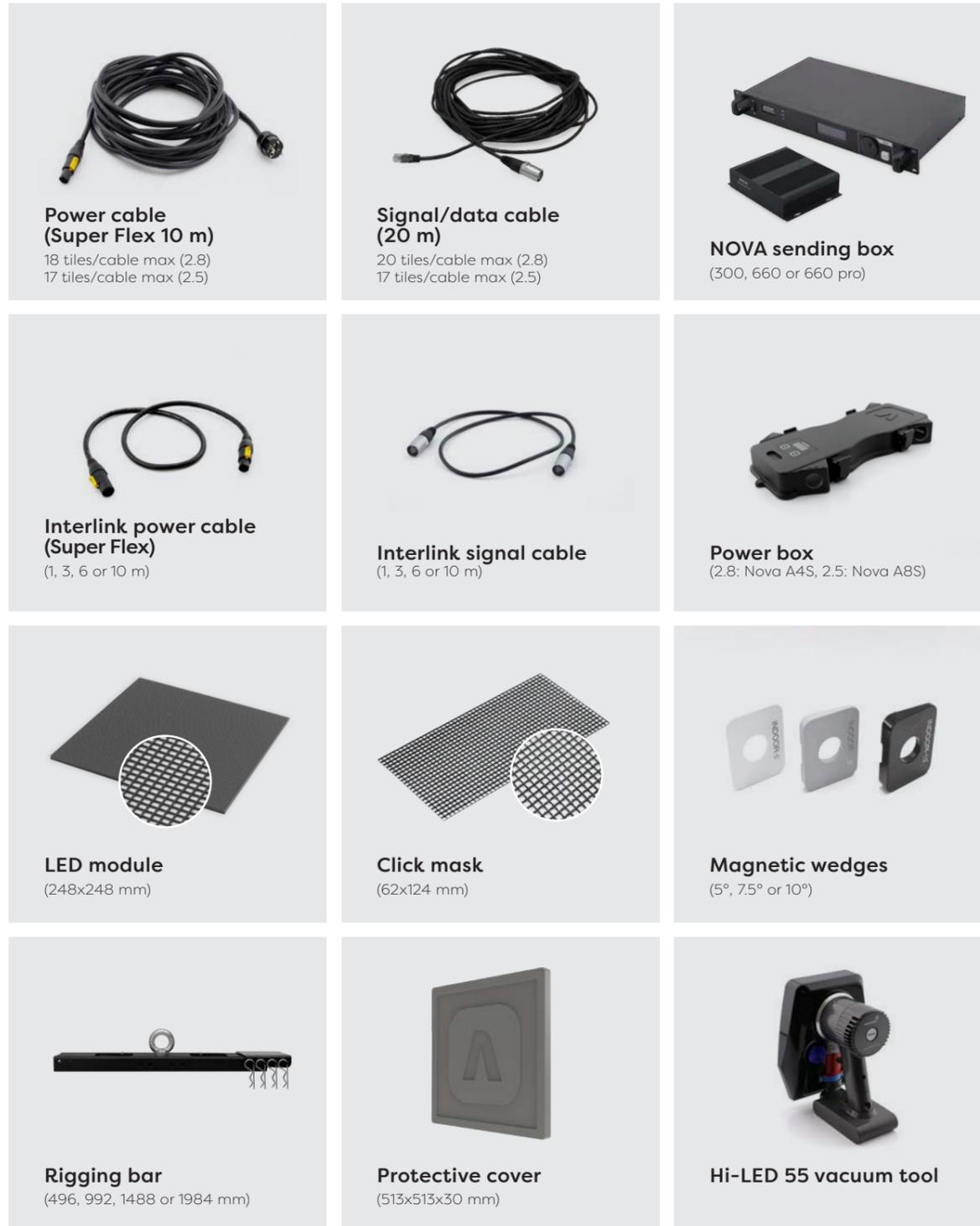**ⓘ** Omni-55 cover, also available in black

curved

or

flat

or

LED
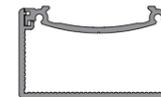
ⓘ Cover the back with SEG fabric

Hi-LED 55 accessories straight tiles

Power cable (Super Flex 10 m)
18 tiles/cable max (2.8)
17 tiles/cable max (2.5)

Signal/data cable (20 m)
20 tiles/cable max (2.8)
17 tiles/cable max (2.5)

NOVA sending box
(300, 660 or 660 pro)

Interlink power cable (Super Flex)
(1, 3, 6 or 10 m)

Interlink signal cable
(1, 3, 6 or 10 m)

Power box
(2.8: Nova A4S, 2.5: Nova A8S)

LED module
(248x248 mm)

Click mask
(62x124 mm)

Magnetic wedges
(5°, 7.5° or 10°)

Rigging bar
(496, 992, 1488 or 1984 mm)

Protective cover
(513x513x30 mm)

Hi-LED 55 vacuum tool

Technical specifications straight tiles

PIXEL PITCH
2.82 mm
2.58 mm

VIEWING ANGLE
140°/120°
(H/V)

VIEWING DISTANCE
2.8: ≥ 2,8 m
2.5: ≥ 2,5 m

SCREEN DIMENSIONS
496x496 mm

PIXEL DENSITY
2.8: 125910 px/m²
2.5: 149844 px/m²

SCREEN RESOLUTION
2.8: 176x176 px
2.5: 192x192 px

CABINET WEIGHT
2.8: 9 kg
2.5: 10 kg

CERTIFICATION
CE/TUV/EMC/LVD/RoHS/ETL/FCC

SENDING BOX (*)
Nova 300, 660, 660 pro

POWER BOX
2.8: Nova A4S
2.5: Nova A8S

OPERATING SYSTEM
Windows 2000/XP/Vista/10

REFRESH RATE
3840 Hz

GRAYSCALE
14 Bit

CONTRAST RATIO
2.8: 5000:1
2.5: 7000:1

BRIGHTNESS
1000 nits

CONSUMPTION
2.8: 145 / 49 W/tile
2.5: 150 / 50 W/tile
(max/average)

(*) Max amount of tiles to be connected to one sending box: Nova 300 has 2 data ports, controls up to 40 tiles (2.8); 34 tiles (2.5). Nova 660 has 4 data ports, controls up to 72 tiles (2.8); 60 tiles (2.5) and allows easy adjustment of most basic functions. Nova 660 pro has 6 data ports, controls up 72 tiles (2.8); 60 tiles (2.5). Nova 660 is advised for rental use.

Curved tiles

Be ahead of the curve with the Hi-LED 55 convex and concave tiles. Available in three different radii, these curved tiles can give your design a new twist.

496 mm

(2) Hi-LED R437 convex
- ¼ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R437 frame v2

496 mm

(3) Hi-LED R1476 concave
- ½ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R1476 frame

496 mm

(1) Hi-LED R437 concave
- ¼ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R437 frame v2
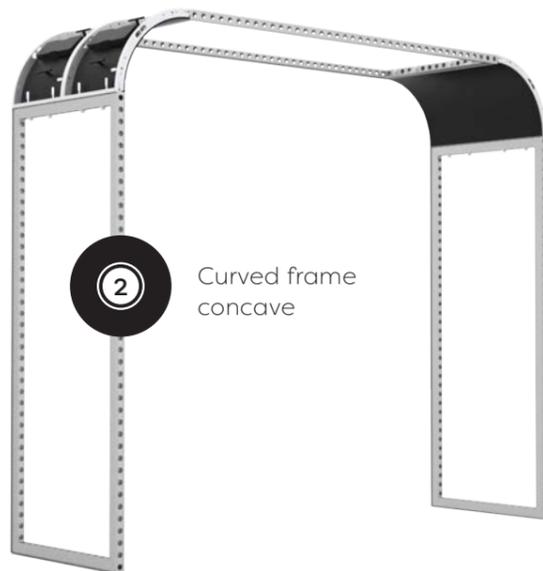
496 mm

(4) Hi-LED R1421 convex
- ½ circle segment
- Pitch 2.8 or 2.5 mm
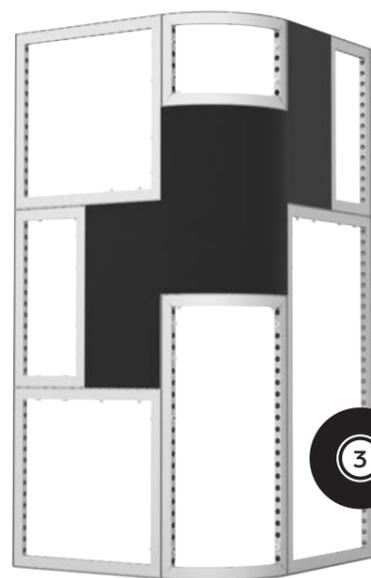- Matches a standard Omni-55 A3 R1421 frame

Assembly options examples
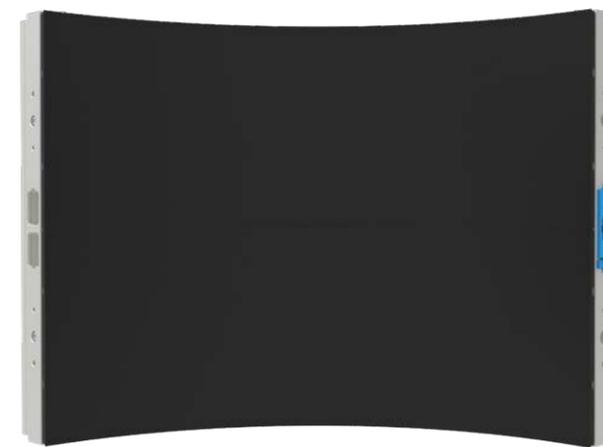
1 Tunnel configuration walls & ceiling

2 Curved frame concave

3 Curved frame convex
Create convex or concave curved walls with the Hi-LED R437 tiles

Decorative finishing options

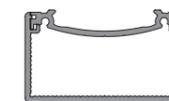**ⓘ** Omni-55 cover, also available in black

curved

or

flat

or

LED

ⓘ Cover the back with panel (convex) or with panel and SEG fabric (concave)

Secure transportation

i Stackable flight case for 5 R437 concave/convex LED tiles
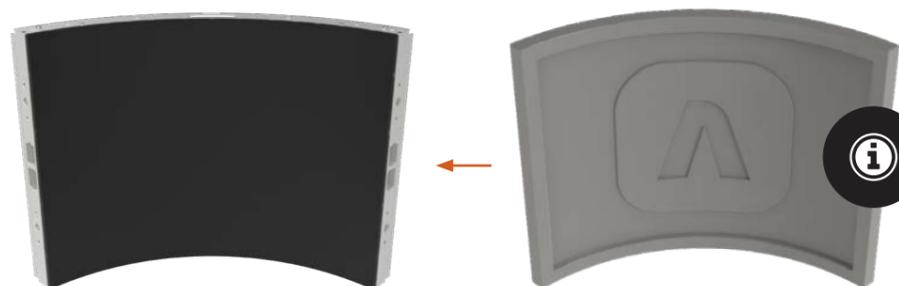
↗↙ Size: 1178x769x753 mm (LxWxH)

⚖ Gross weight 2.5 mm: 132 kg
Net weight: 56 kg

i Stackable flight case for 7 R1476 concave or 7 R1421 convex LED tiles

↗↙ Size: 1178x873x753 mm (LxWxH)

⚖ Gross weight 2.5 mm: 165 kg
Net weight: 67 kg

i Protective cover included with every LED tile

Hi-LED 55 accessories curved tiles

Power cable (Super Flex 10 m)
2.8: 12 tiles/cable max (R437 CC), 2.8: 14 tiles/cable max (R437 CV, R1421, R1476), 2.5: 12 tiles/cable max (R437 CC), 2.5: 10 tiles/cable max (R437 CV, R1421, R1476)

Signal/data cable (20 m)
2.8: 13 tiles/cable max (R437 CC), 2.8: 15 tiles/cable max (R437 CV, R1421, R1476), 2.5: 11 tiles/cable max (R437 CC), 2.5: 12 tiles/cable max (R437 CV, R1421, R1476)

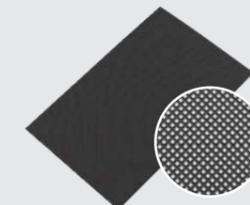**NOVA sending box**
(300, 660 or 660 pro)

Interlink power cable (Super Flex)
(1, 3, 6 or 10 m)

Interlink signal cable
(1, 3, 6 or 10 m)

Power box
(2.5: Nova A8S, 2.8: Nova A4S)

LED module
(R437 CC: 344x248 mm
R437 CV / R1421 / R1476: 386x248 mm)

Hi-LED R437 convex protective cover
(712x509x171 mm)

Hi-LED R437 concave protective cover
(656x509x159 mm)

Hi-LED R1421 concave protective cover
(782x509x80 mm)

Hi-LED R1476 convex protective cover
(787x509x81 mm)

Technical specifications

R437 concave (CC)
R437 convex (CV)

PIXEL PITCH	VIEWING ANGLE	VIEWING DISTANCE	SCREEN DIMENSIONS
2.82 mm 2.58 mm	2.8: 120°/120° (H/V) 2.5: 120°/120° (H/V)	2.8: ≥ 2,8 m 2.5: ≥ 2,5 m	CC: 689x496 mm CV: 772x496 mm

PIXEL DENSITY	SCREEN RESOLUTION	CABINET WEIGHT	CERTIFICATION
2.8: 125910 px/m² 2.5: 149844 px/m²	2.8 CC: 244x176 px 2.8 CV: 274x176 px 2.5 CC: 266x192 px 2.5 CV: 300x192 px	14 kg	CE/TUV/EMC/LVD/RoHS/ ETL/FCC

SENDING BOX (*)	POWER BOX	OPERATING SYSTEM	REFRESH RATE
Nova 300, 660, 660 pro	2.8: Nova A4S 2.5: Nova A8S	Windows 2000/ XP/Vista/10	3840 Hz

GRAYSCALE	CONTRAST RATIO	BRIGHTNESS	CONSUMPTION
14 Bit	2.8: 5000:1 2.5: 6000:1	1000 nits	2.8 CC: 181 / 61 W/tile 2.8 CV: 203 / 68 W/tile 2.5 CC: 209 / 70 W/tile 2.5 CV: 243 / 78 W/tile (max/average)

(*) Max amount of tiles to be connected to one sending box: Nova 300 has 2 data ports, controls up to 30 tiles (2.8 CC); 26 tiles (2.8 CV); 24 tiles (2.5 CC); 22 tiles (2.5 CV). Nova 660 has 4 data ports, controls up to 52 tiles (2.8 CC); 44 tiles (2.8 CV); 44 tiles (2.5 CC); 36 tiles (2.5 CV) and allows easy adjustment of most basic functions. Nova 660 pro has 6 data ports, controls up to 52 tiles (2.8 CC); 44 tiles (2.8 CV); 44 tiles (2.5 CC); 36 tiles (2.5 CV). Nova 660 is advised for rental use.

R1476 concave (CC)
R1421 convex (CV)

PIXEL PITCH	VIEWING ANGLE	VIEWING DISTANCE	SCREEN DIMENSIONS
2.82 mm 2.58 mm	140°/120° (H/V)	2.8: ≥ 2,8 m 2.5: ≥ 2,5 m	772x496 mm

PIXEL DENSITY	SCREEN RESOLUTION	CABINET WEIGHT	CERTIFICATION
2.8: 125910 px/m² 2.5: 149844 px/m²	2.8: 274x176 px 2.5: 300x192 px	14 kg	CE/TUV/EMC/LVD/RoHS/ ETL/FCC

SENDING BOX (*)	POWER BOX	OPERATING SYSTEM	REFRESH RATE
Nova 300, 660, 660 pro	2.8: Nova A4S 2.5: Nova A8S	Windows 2000/ XP/Vista/10	3840 Hz

| GRAYSCALE	CONTRAST RATIO	BRIGHTNESS	CONSUMPTION
14 Bit	2.8: 5000:1 2.5: 6000:1	1000 nits	2.8: 203 / 68 W/tile 2.5: 243 / 78 W/tile (max/average)

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Lookbook

⊕

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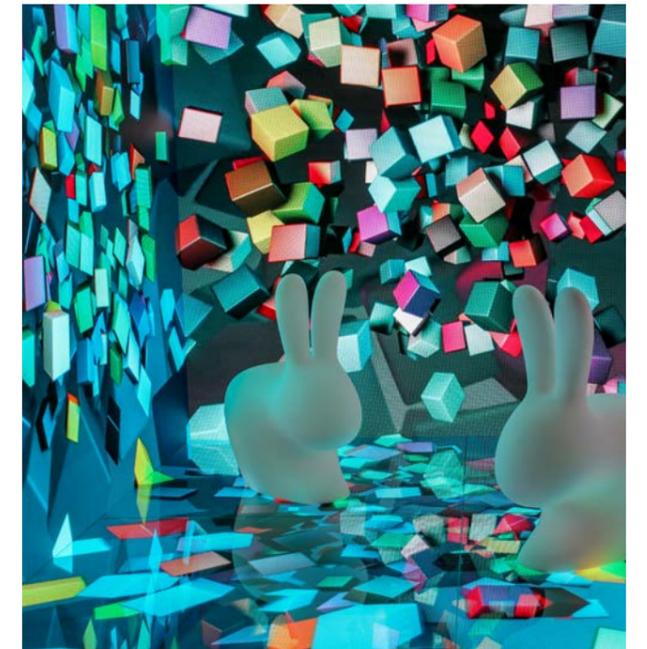
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