ADVANTIS AIR

TECHNICAL SPECIFICATIONS.

Revisión 09
May de 2020

CONTENT

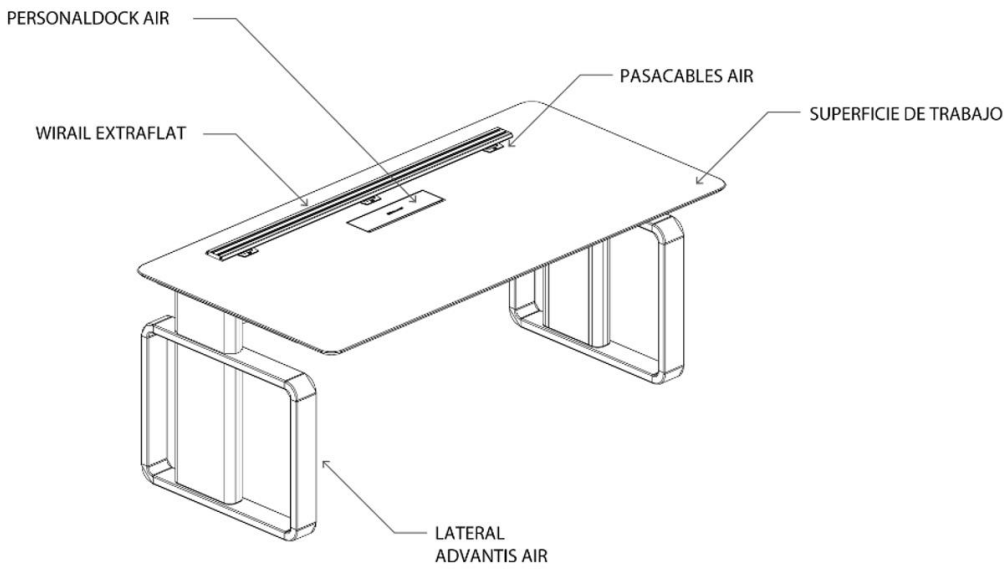
GENERAL SPECIFICATIONS

GLOBAL CONCEPT

The ADVANTIS AIR control console is a modular technical furniture solution specially designed for control tasks in critical environments 24/7 and other professional environments with high ergonomic and durability requirements. The console also makes it possible to manage common computing equipment, cabling and wiring comfortably and easily in control room environments, as well as the integration of complex ergonomic display systems.

Both the manufacturing technology and materials used in the console, such as the use of large-format aluminum profiles, allow the generation of robust parts that are light and simple visually, giving the set a minimalist design and pure lines that last in time. Only high-quality materials and processes are used to ensure maximum durability and safety for the most demanding professional environments.

The console is mainly made up of a structural assembly (beam, laterals and, where appropriate, structural Buck), a high resistance CDF work surface, and functional elements for operators, such as Personal Dock or personal connections area, cable glands and WiRail ergonomic arm fixing system with longitudinal adjustment.



Componentes de consola

The structural assembly generated by the beam and the sides, and if is the option, the structural Buck, provide a high overall resistance, as well as the space and tools necessary for proper connectivity and cable management. The interior of the beam has a technical space of sufficient size to house all the wiring and small computer equipment. Access to this technical space is quick and easy by means of covers or adjustable trays with manual opening without the need for tools.

The structural system is modular and adaptable and guarantees that as standard a wide variety of solutions for different needs such as individual consoles, linear configurations of several modules, concave, convex, individual modules with Sit & Stand system and meeting tables.

At the same time, the vertical components of the structure (sides and structural bucks) are interchangeable allowing the replacement of one by another, without the need to replace the beam or the work surface.

The work surface provides a minimum adequate space for control and supervision tasks established by the ISO 11064-3 standard. The surface guarantees adequate resistance and durability for critical environments, as well as compliance with the ergonomics regulations established by UNE EN 527-2011 and UNE EN 527-2017. ADVANTIS AIR has compliance certificates issued by an accredited laboratory.

Those consoles that include the Sit & Stand system, allow the height adjustment of the work surface in a motorized way, allowing control and supervision tasks to be carried out both in a sitting position and in an upright position. The regulation range is 460mm, from the lowest working plane 755mm up to 1215mm the maximum height, with full regulation throughout the route by means of a remote control accessible from the operator's working position.

The Sit & Stand system also manages the elevation of the display systems, as well as all the operative elements of the operator's work surface by means of a cabling system adaptable to different measures, maintaining the ergonomic position of the different elements throughout the regulation range.

The design of the console with the Sit & Stand system is visually identical to that of the fixed version.

97% of the console parts are recyclable and at least 75% of the structure is made of aluminium.

ERGONOMICS AND USABILITY

The system complies with the UNE-EN 527-2011 and UNE-EN 527-2017 regulations in all its sections, as well as the specific regulation for ISO 11064-3 control rooms.

ADVATIS AIR has the test and compliance certificate in the ergonomics regulations on workstations EN 527-1: 2011, EN 527-2: 03 and EN 527-3: 03. Part 1: Dimensions. Part 2: Mechanical safety requirements. Part 3: Test methods to determine the stability and mechanical resistance of the structure.

AIDIMME
INSTITUTO TECNOLÓGICO

CERTIFICADO DE ENSAYO Nº 231.Y.1910.565.ES.01

Referencia: 1908023-01– C

PRODUCTO: **MESA CONSOLA**
MODELO "ADVANTIS AIR"

EMPRESA: **GESAB, S. A. U.**
AV MOGENT, 68
08450 LLINARS DEL VALLES (BARCELONA)
902 11 31 86
A 59877076

ENSAYOS: Adecuación a las siguientes normas:
UNE-EN 527-1:2011, UNE EN 527-2:2017 Mobiliario de oficina. Mesas de trabajo. Parte1 Dimensiones. Parte 2 Requisitos de seguridad, resistencia y durabilidad.

RESULTADOS: Cumple satisfactoriamente las especificaciones fijadas por las normas aplicadas para mesas de trabajo, en los siguientes ensayos:

ENSAYOS	RESULTADO
Dimensiones. Clasificación. **Posición de uso.** (UNE-EN 527-1:2011)	CORRECTO **Tipo C altura fija. Posición sentado.**
Apdo. 4. Requisitos de seguridad	CORRECTO
Ensayo 2.1 Carga estática horizontal (Fh = 450 N, n=10 ciclos)	CORRECTO
Ensayo 3.1 Carga estática vertical (Fv = 1000 N, n= 10 ciclos)	CORRECTO
Ensayo 4. Durabilidad horizontal (Q=50 Kg, F= 300 N, n= 10000 ciclos)	CORRECTO
Ensayo 5. Rigidez de la estructura (Fh = 200 N)	CORRECTO
Ensayo 6. Durabilidad vertical (F= 400 N, n= 10000 ciclos)	CORRECTO
Ensayo 8. Impacto vertical (h = 140 mm, n = 10 ciclos)	CORRECTO
Ensayo 9. Caida (h = 100 mm)	CORRECTO
Ensayo 10. Estabilidad bajo carga vertical (F =750 N)	ESTABLE
Anexo A. Ensayo para la deformación de las superficies de las mesas	CORRECTO

Paterna, 24 de Octubre de 2019

P.A.

AIDIMME
Fdo. José Emilio Nuévalos
Laboratorio de Muebles y Productos
Jefe de Sección

El presente certificado únicamente concierne a las muestras ensayadas por el Laboratorio de AIDIMME.
Los resultados particulares del ensayo se encuentran descritos en el informe técnico nº 231.I.1910.565.ES.01 de fecha 22/10/2019.
AIDIMME es miembro de INNOVAWOOD, la Red Europea de Innovación para la Industria Forestal, de la Madera y el Mueble, entre cuyos miembros se encuentran: BRE-CTTC (Reino Unido), COSMOB (Italia),DTI (Dinamarca), FCBA (Francia),ITD (Polonia), SHR (Holanda), SP (Suecia), TRADA-FIRA (Reino Unido),University of Zagreb (Croacia), WKI (Alemania).

AIDIMME. INSTITUTO TECNOLÓGICO METALMECÁNICO, MUEBLE, MADERA, EMBALAJE Y AFINES

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The console allows a comfortable and easy access to all areas of maintenance and installation of the product through adjustable covers or pivoting surfaces that expose the interior of the system. The maintenance and installation of display screens is carried out from the upper area to guarantee the good ergonomics of the operator from an upright position.

The system includes a WiRail ExtraFlat solution by using extruded aluminum profile which allows the positioning of the ergonomic arms for monitors in all longitudinally position of operator's station. Cable glands are included for cable management from the work surface to the technical area of the beam.

The design of the console includes a PersonalDock connection area for the operator integrated into the work surface, located within a comfortable access range and without interfering with the main control tasks.

The console integrates a safety LED lighting system at the corners of the work surface and helps prevent accidents in low visibility conditions. In parallel, the system can serve as a source of information on the status of the console or the control room through color settings.

TECHNICAL FEATURES.

SIDE SUPPORTS

The **side supports** perform the functions of support and structural stabilization of the console, as well as channeling and managing the wiring from the beam to the raised floor. The sides are made up of two main components, the frame, and the central column. The set design is stable and robust as well as visually light, creating two large vertical gaps between the frame and the column, which visually lighten the set and allow natural air circulation.

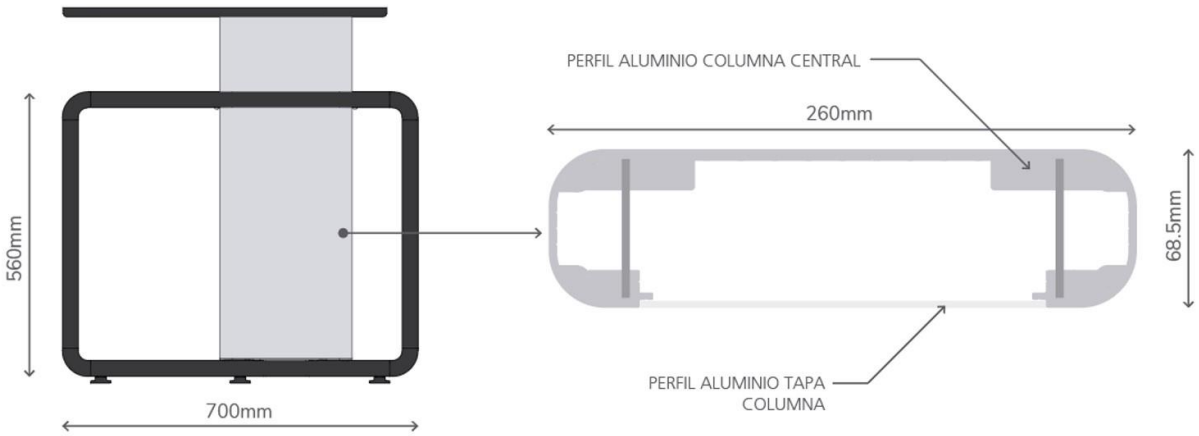
The **frame** performs the lateral stabilization function and is made of 100% aluminum. The aluminum extrusion pieces have a minimum thickness of 2.5 mm and are joined to the corner pieces, which are made of cast aluminum, thus guaranteeing the maximum structural rigidity of the assembly.

The **central column** is made of a single 100% large-format aluminum profile with maximum exterior dimensions of 68.5x260x672mm (WxDxH) and a minimum wall thickness of 3.5mm. It provides an adequate space for the channeling and management of the cabling, as well as a specific space for the connection terminals inside. The technical area inside the column has a minimum size of 250x60mm (DxW) and is protected and hidden from view from the outside.

Likewise, access is easy by means of adjustable covers without the need for tools and of the same material and finish as the profile of the central column. In the upper part, a low-profile bracket of height not exceeding 17.5mm is integrated to reinforce the support in the front area of the work surface. Bracket made of sheet steel with a minimum thickness of 2.5mm.

All the elements described above that shape the side support of the console have an exterior finish with high resistance micro textured powder paint.

In the lower area of the frame 3 levelers with high load capacity and easy leveling system without disassembly are integrated.



Lateral de consola – Materiales y dimensiones -

The central column of the Sit & Stand model houses the elevation column in charge of regulating the working height of the console. The lifting column has the following technical characteristics to guarantee the good operation of the set:

Maximum capacity: 700 N per column.

Maximum speed: 38 mm / s without load.

Standard stroke length: 660mm

Column outer dimensions: 60 x 100 mm

Bending moment: My = max. 150 Nm Dynamic

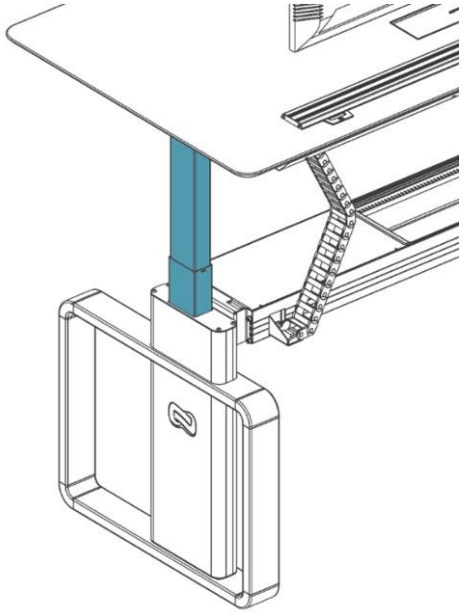
Low noise level

PIEZO ™: Integrated sensor that minimizes the risk of damage by avoiding collisions.

PVC-FreeTM for a more environmentally friendly product.

Approved in accordance with EN 60335-1.

Duty cycle: 10% ~ 2 minutes of continuous use at full load, followed by 18 minutes of pause



Columna elevable Sit&Stand

The system incorporates highly durable technical polymer cable chains for optimal cable management. With quick opening on outer radii for quick and easy wiring along its entire length.

Long lasting chain systems. Optional modular interior partitions for optimized cable management.

To unify the design of the different versions of consoles, the exterior design of the side is the same for the Sit & Stand versions, so the motor is perfectly integrated into the leg without affecting the design.

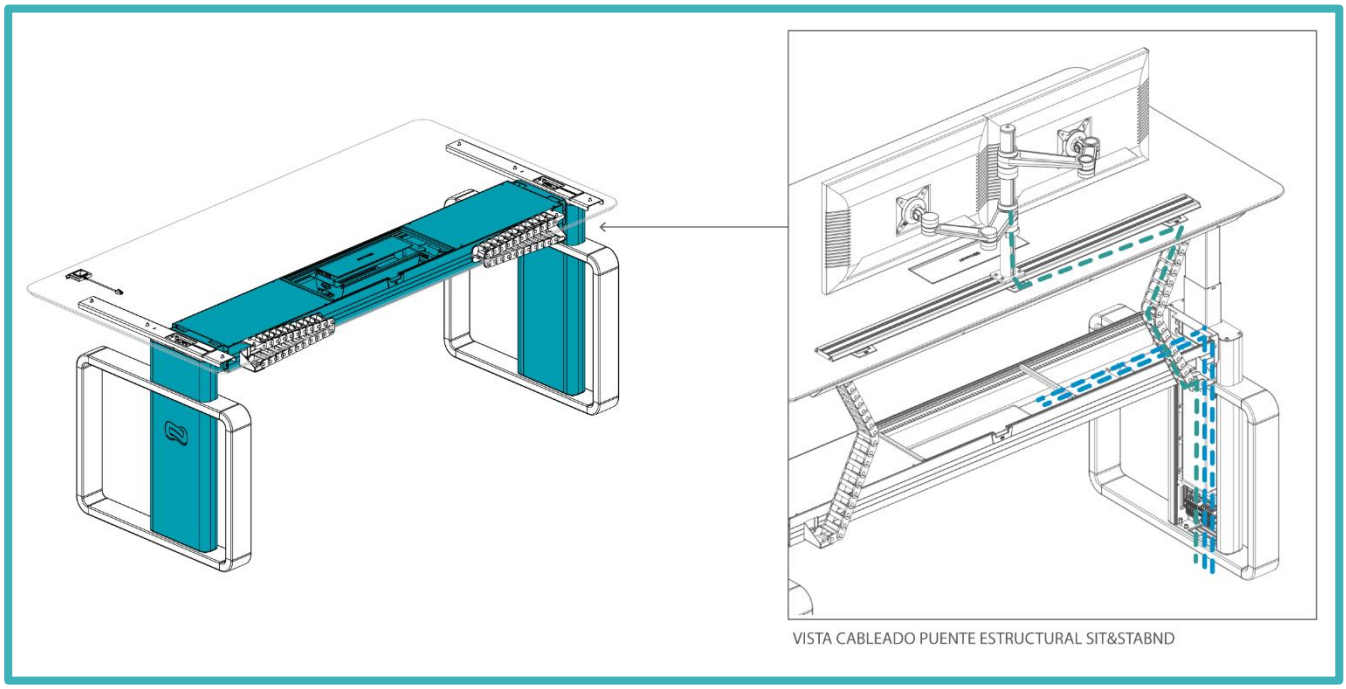
STRUCTURAL BEAM

The structural beam provides stability and support to the console assembly and especially to the work surface. In addition, it provides adequate space for the management of cabling and connections, and housing of hardware and electronic equipment.

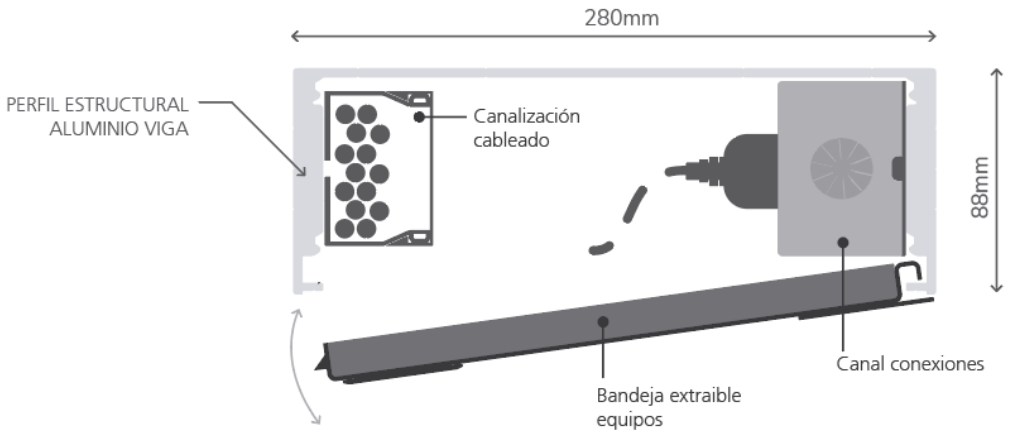
The Beam is made of a single 100% large-format aluminium profile with external measurements 250x88mm (DxH) and ensures structural stability for lengths up to 2800mm without the need for intermediate support points. The minimum wall thickness is 3.5mm.

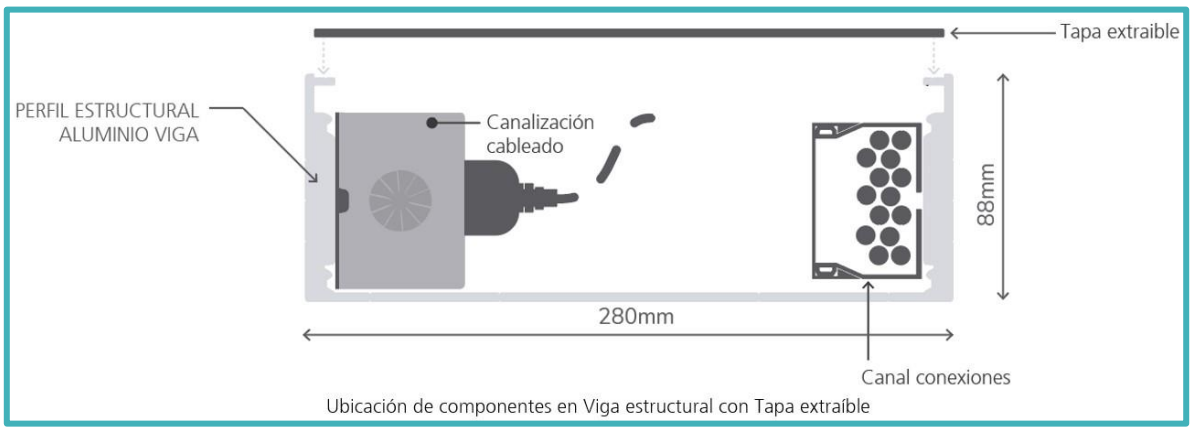
The structural beam integrates into itself profile a guide system for the removable trays on its underside. These trays have the function of supporting the installed equipment, as well as covering and protecting the interior of the beam from the underside. The internal free space of the beam with the installed trays have the minimum dimensions of 227mm deep and 85mm high.

A cable trucking solution is included for the management of the cabling along the entire length of the beam. It is "Panduit" type, measures not less than 42 x 60 (DxH) and offers easy access to the interior by means of a cover that can be registered by clips and openings along its entire length for the entry and exit of cables at any point.



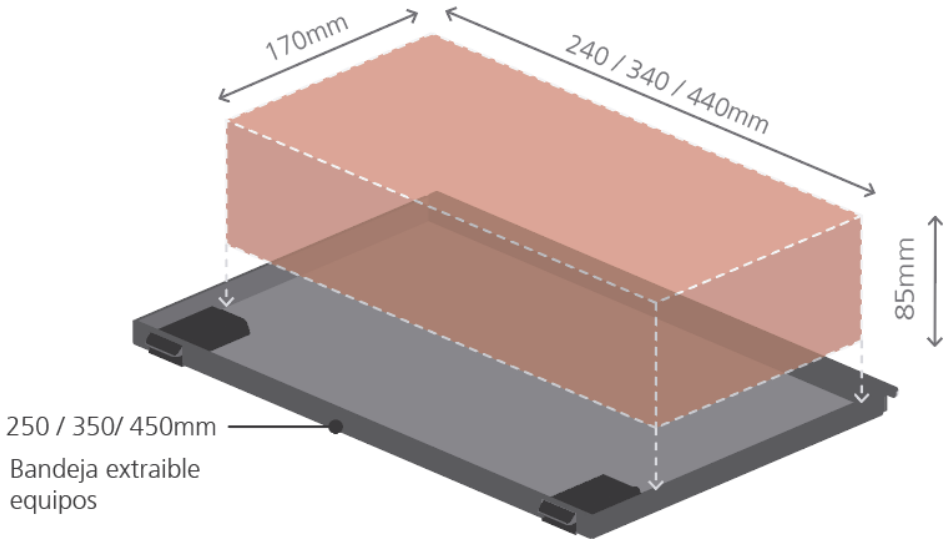
Standard 45x45mm format connection channels suitable for Simon, Legrand or similar are installed on the opposite side of the beam, configured according to project needs. As a standard configuration, each console module includes a pre-installed channel with up to 6 connectors to be chosen.





Ubicación de componentes en Viga estructural con Tapa extraíble

The lower trays provide housing for hardware and electronic equipment with interior measurements of up to 170x85mm (DxH) and variable width depending on tray size. At least 3 measures of tray width (250/350 / 450mm) are arranged to adapt to the beam length and leave the minimum interior space uncovered.



The trays are made of sheet steel with a minimum thickness of 1.5mm with ventilation and fastening grooves, exterior finish with high resistance micro-textured powder paint. The tray fastening system is easy to manipulate without tools by means of a retractable closure system that will fit into the beam, leaving freedom of movement to reposition the entire length of the beam. Furthermore, the design of the retractable restraint system avoids accidental fall of the tray once the closures have been opened, by means of an anti-fall system. All beams include at least 2 removable trays as a standard configuration.

WORK SURFACE

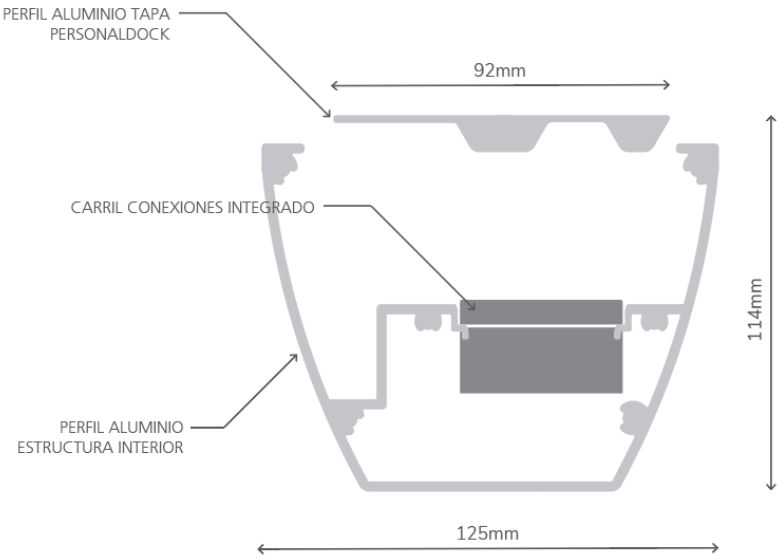
The work surfaces are made of CDF (Compact Density Fibreboard) (> 1,000 kg / m3) and a thickness of 16.5mm. With a black core of compact fibbers bonded with hydrofuged resins and a high-quality multi-layer outer laminate. The surface guarantees great stability, impact resistance (due to the bilayer laminate), scratch resistance, water resistance and flame retardancy. The work surface is available in 2 depths 900 and 820mm. All work surfaces have all rounded edges with radii not less than 3mm and a radius of 50mm at the ends of the surface (outer edges) in compliance with the established recommendations to reduce the risk of SF (Semicircular Lipoatrophy).

On all corners of the work surfaces the LED security system is integrated as a special request.

PERSONAL DOCK

The console provides an integrated operator space for personal connections in a fully coplanar way on the work surface with various connector options depending on the needs of each position with a capacity of up to 4 window connectors of dimensions 45x45mm, plus an integrated cable gland. The connection area is concealed under the work surface to ensure an unobstructed work area and is accessed by a tilting lid with drop cushioning and a smooth, quiet opening / closing. The interior structure of the PersonalDock

consist of a single extruded aluminium profile with a minimum thickness of 2.5mm and a natural anodized exterior finish. The outer cover is made of aluminium profiles with a minimum thickness of 2.5mm and an external finish with high-resistance micro-textured powder paint. The internal profile integrates the clip system for the standard 45x45mm connectors on the market suitable with Simon, Legrand or similar.



TECHNICAL COMPARTMENT, BUCK

The console system provides a technical compartment solution or structural Buck, so that it can be used as a support for the consoles in the same way as the side supports, but with the capacity to house IT equipment, wiring management and connection elements for those cases where necessary. All configurations are able to expand their capacity for hosting computer equipment by replacing one side with a technical compartment (Buck), the exception are the Sit & Stand models where the sides cannot be replaced by a Buck since they must house the lift motors..

The compartments are available in at least 3 standard sizes S, M and L according to the following table of minimum exterior dimensions and free internal capacity:

	External Dimensions (mm)			**Minimum internal capacity (mm)**		
	Width	**Depth**	**Height**	**Width**	**Depth**	**Height**
Buck S	250	700	570	210	690	520
Buck M	400	700	570	410	690	520
Buck L	650	700	570	610	690	520

Bucks with interior dimensions of more than 600 mm wide must have an accessory to house 19" equipment.

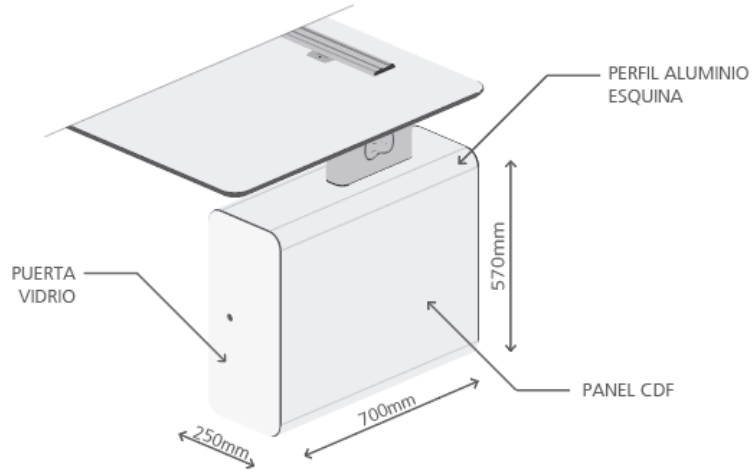
All Buck technical compartments include, as standard configuration, a "Panduit" ductwork measuring not less than 42x60x400mm (WxDxH) that provides easy access to the interior by means of a recordable cover

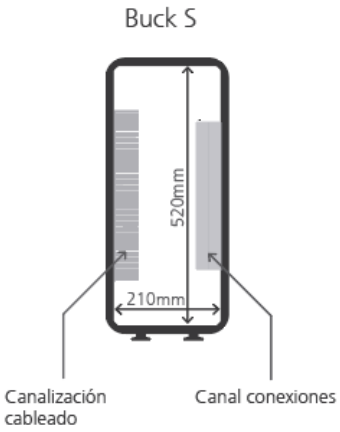
with clip system and openings throughout its length for entry and cables exit at any point. It also includes a connection channel with capacity for up to 6 standard 45x45mm connectors on the market compatible with Simon, Legrand or similar. The conduit of the wiring from inside the compartment to the beam is direct from inside the Buck and is completely hidden from the outside.

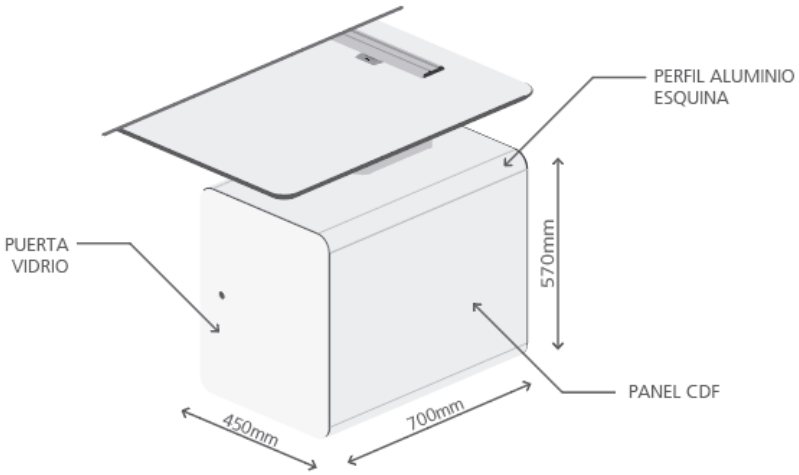
The panels that cover the compartment are made of CDF (Compact Density Fibreboard) (> 1,000 kg / m3) and a thickness of 16.5mm. With a black core of compact fibbers bonded with hydrophobic resins and a multi-layer outer laminate. The surface guarantees great stability, impact resistance (due to the bilayer laminate), scratch resistance, water resistance and flame retardancy. To guarantee structural stability, the connection between panels is made using aluminium profiles with a minimum thickness of 3.5mm and an exterior finish with high resistance microtextured powder paint.

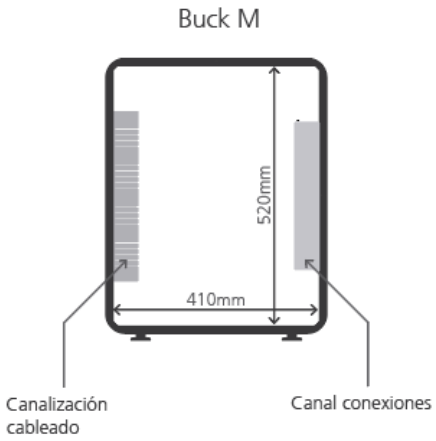
In the lower area of the Buck is integrated 4 levellers with high load capacity and easy levelling system without disassembly.

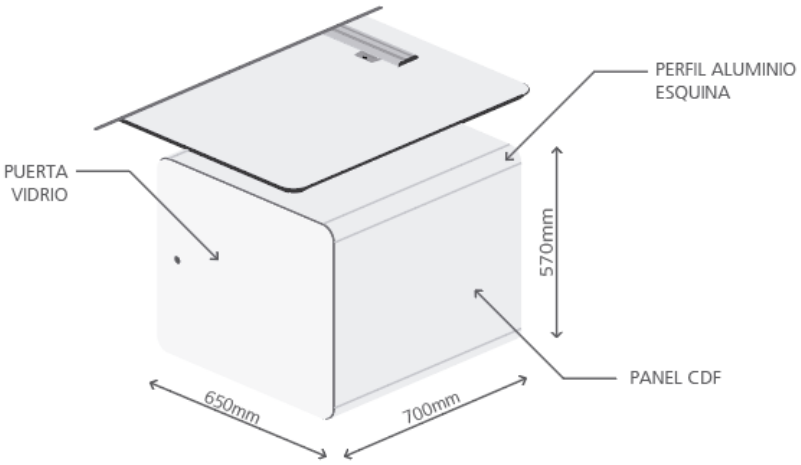
The rear doors are made of perforated sheet steel with a thickness of not less than 3mm and painted with high resistance micro-textured powder paint. The front doors are 4mm tempered glass according to regulations and a translucent acid finish on the inside. The pivot doors, both in the front and in the rear of the technical Bucks will incorporate hinges with a Blumotion-type movement retention system from the Blum® company, adjustable in 3 dimensions and with an opening angle greater than 105º, which guarantee a smooth and silent closing of the doors.

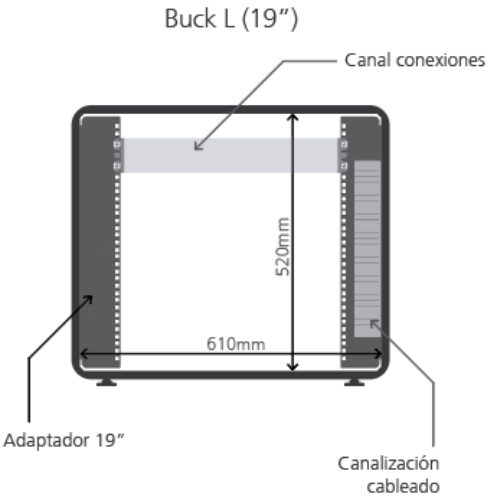

PERFIL ALUMINIO
ESQUINA
PUERTA
VIDRIO
570mm
PANEL CDF
250mm
700mm

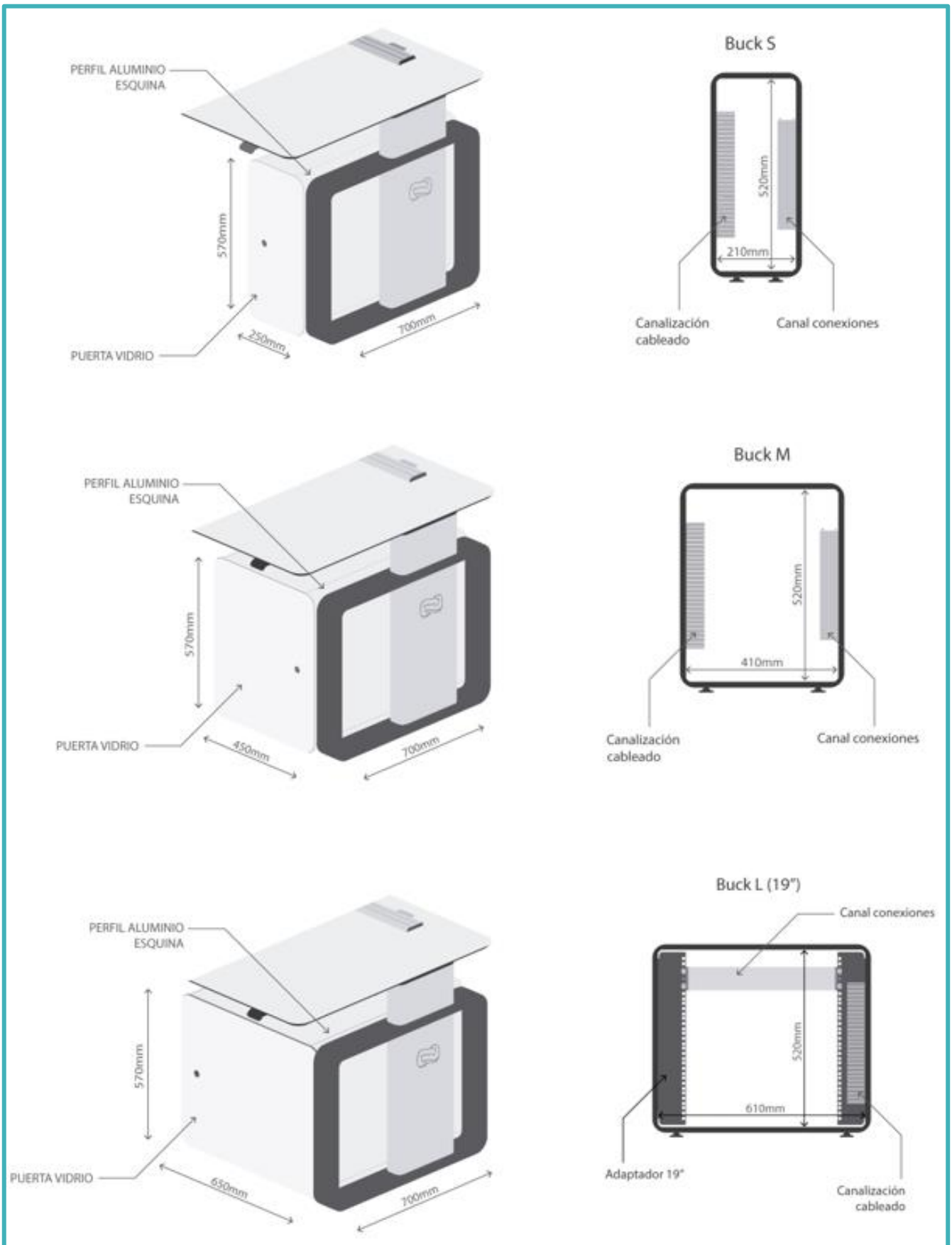

Buck S
520mm
210mm
Canalización
cableado
Canal conexiones


PERFIL ALUMINIO
ESQUINA
PUERTA
VIDRIO
570mm
PANEL CDF
450mm
700mm

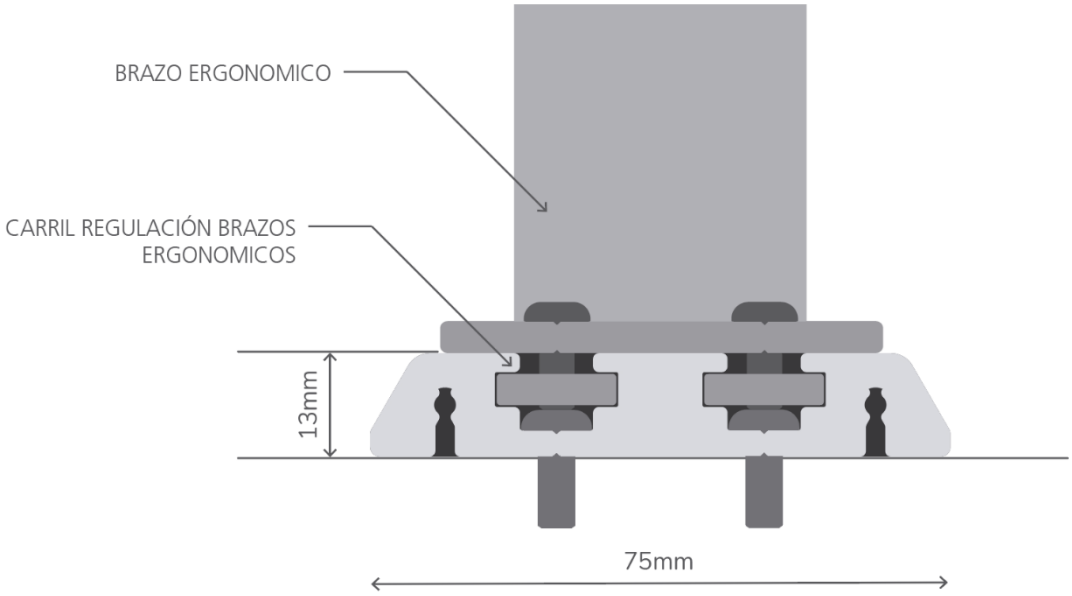

Buck M
520mm
410mm
Canalización
cableado
Canal conexiones


PERFIL ALUMINIO
ESQUINA
PUERTA
VIDRIO
570mm
PANEL CDF
650mm
700mm


Buck L (19")
Canal conexiones
520mm
610mm
Adaptador 19"
Canalización
cableado



Buck en modelo Sit&Stand – Materiales y dimensiones.



ERGONOMIC VISUALIZATION SYSTEM

All consoles integrate a WiRail ExtraFlat type ergonomic arm management system that allows positioning of the ergonomic arms in any longitudinal position of the console without the need for machining on the work surface. In turn, the system allows the relocation of the arms once installed, as well as the inclusion of new elements without the need to make changes to the work surface. The design of the system has a low profile without protruding more than 13mm from the work surface, to minimize visual and object interference. The system is manufactured using aluminium profiles with a minimum thickness of 3mm and an anodized exterior finish.

Correct cable management is guaranteed from the work surface to the technical area of the console, by means of cable glands that communicate directly with the interior of the beam. The design of the cable glands has folding tabs to avoid leaving open spaces in case of not using a specific cable passage. A minimum of 3 cable glands are included in each console module, distributed over the entire length of the surface to avoid long cable runs on them. The cable glands have a minimum opening of 4.5cm2 and made of ABS and will be available in 3 colours; black, grey, and white.

PACKAGING AND TRACEABILITY

All consoles and related products are clearly and legibly identified by a label showing the manufacturer, model, year of manufacture, reference, and product code to ensure correct traceability.

The product packaging ensures its integrity, both in the structural part and in the properties of the materials (by oxidation or other type of degradation caused by the environmental conditions of the shipment).

Each piece or subset are individually protected and packed for collection inside the treated box for packaging and transport to destination.

The packages comply with the international SOLAS-IMO standard, referring to the security points for lashing.

All packaging complies with the phytosanitary treatment of wood, according to FAO ISPM N-15 standard.

The outside of the packaging is duly identified, with the name of the company, and the different boxes that make up the total shipment is quantified, along with the destination address. The boxes are marked with the relevant signage.

For maritime shipments, the product is insured by means of thermo-sealed VCI covers.

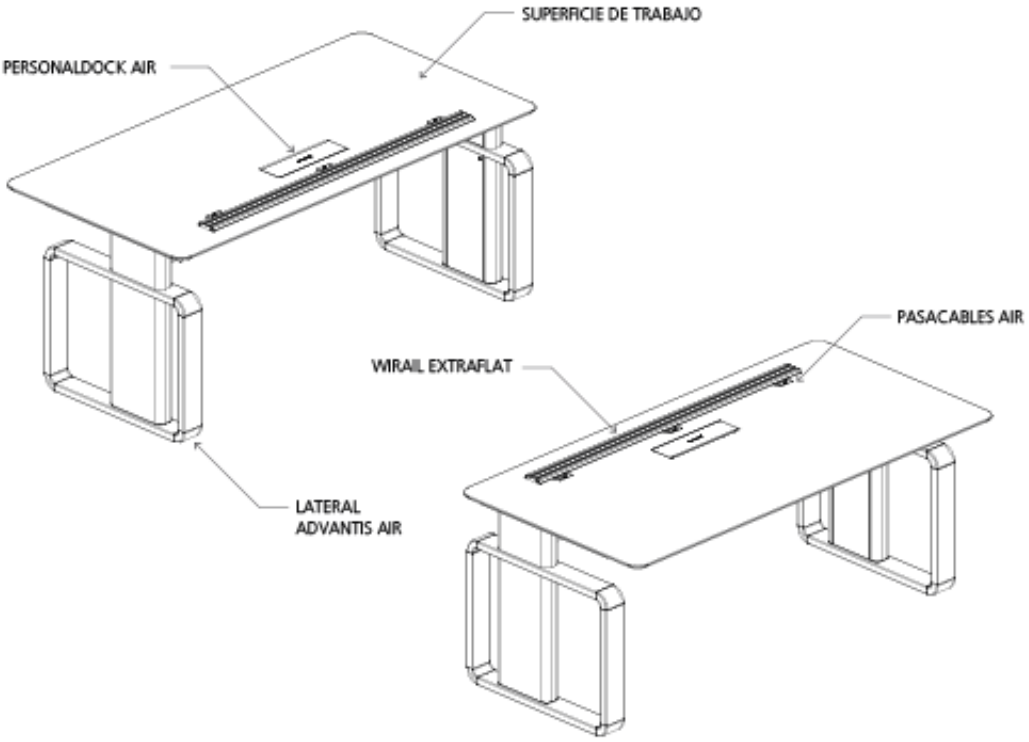
QUALITY CERTIFICATES AND CERTIFICATIONS

Quality, environmental, and occupational risk prevention certificates:

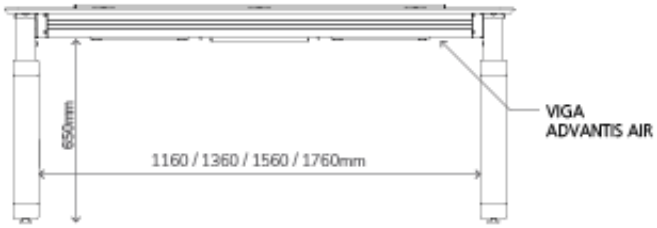
Certifications and ratings:

ISOMETRIC DRAWINGS AND CERTIFICATES

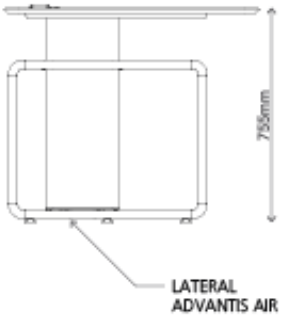
ADVANTIS AIR INDIVIDUAL POSITION



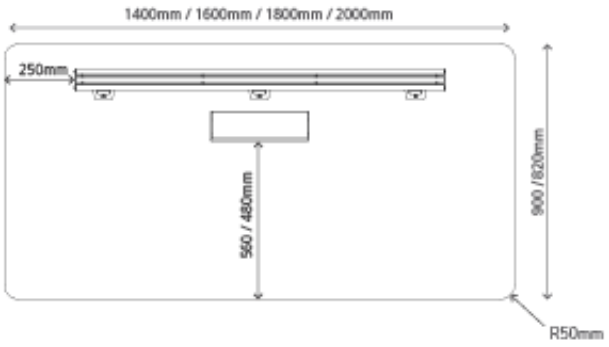
VISTA FRONTAL



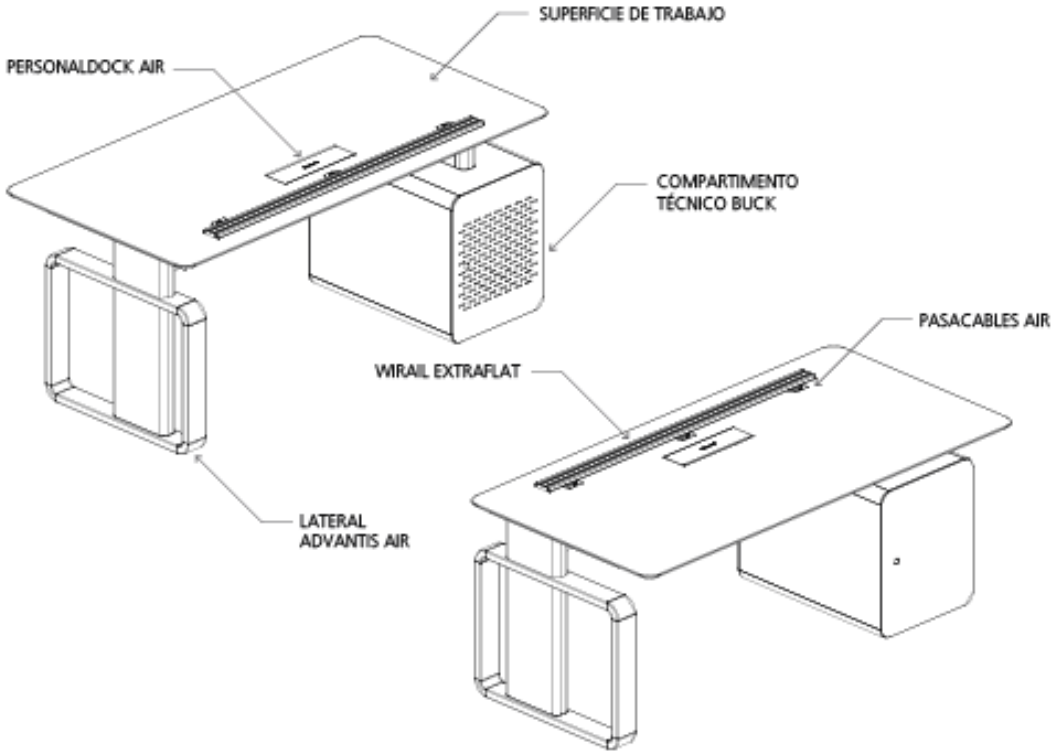
VISTA LATERAL



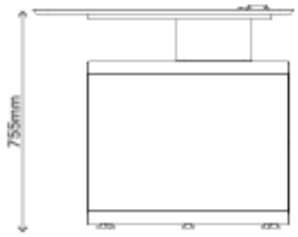
VISTA SUPERIOR



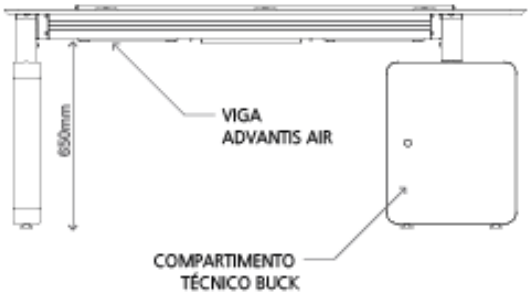
ADVANTIS AIR INDIVIDUAL POSITION WITH TECHNICAL BUCK



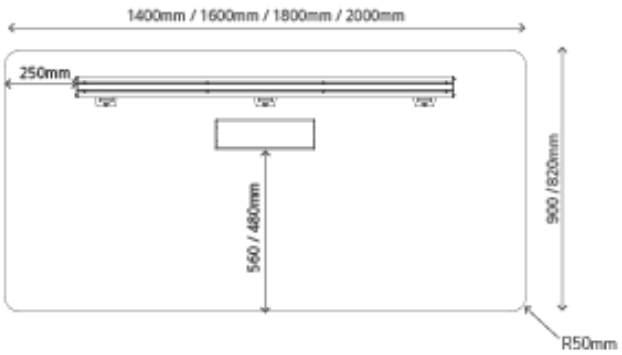
VISTA LATERAL



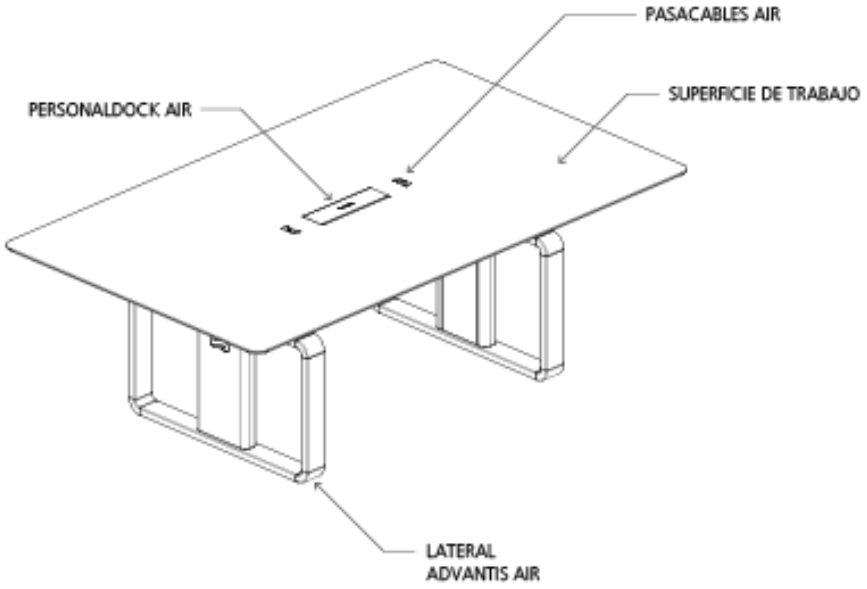
VISTA FRONTAL



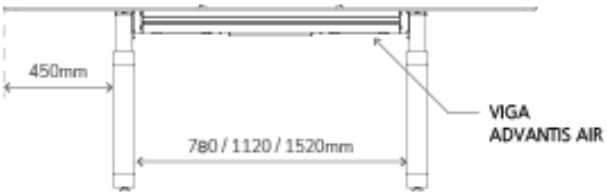
VISTA SUPERIOR



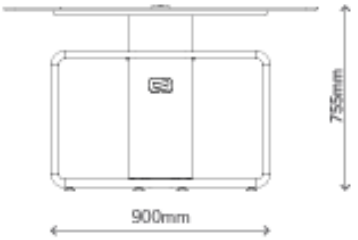
ADVANTIS AIR MEEETING TABLES



VISTA FRONTAL



VISTA LATERAL



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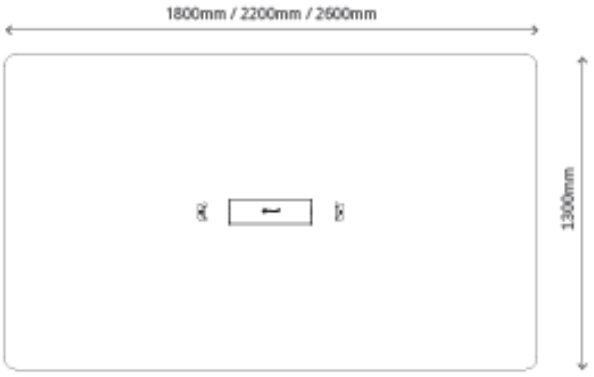
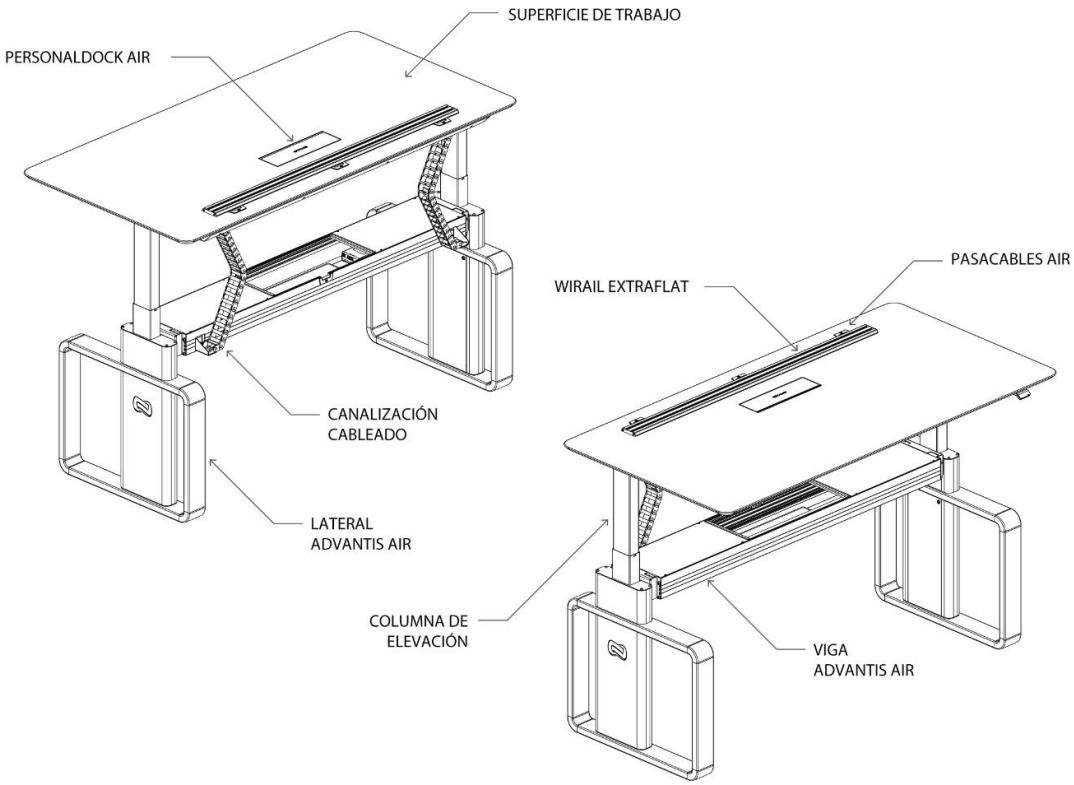


ADVANTIS AIR SIT & STAND



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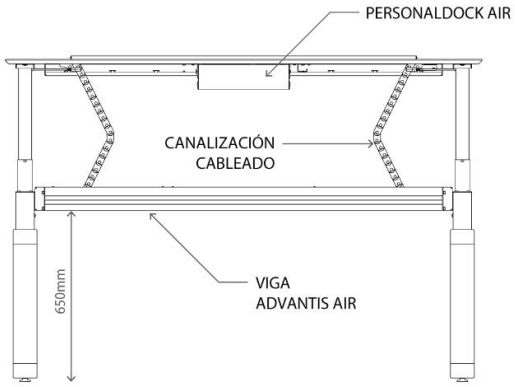
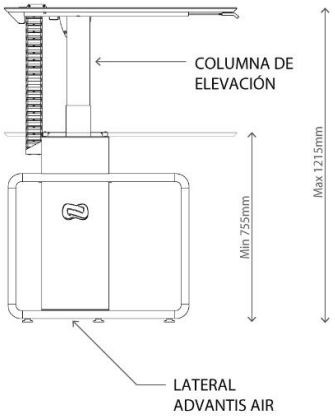
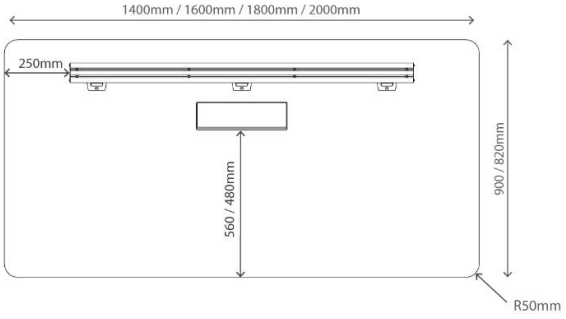


VISTA LATERAL

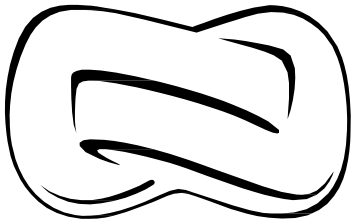


VISTA SUPERIOR



MATERIALS AND FINISH

- Manufactured components in Steel Sheet are cold rolled according to the UNE EN 10130: 1999 standard and UNE EN 10024: 2006 quality certificate.
- The painted components with high quality micro textured epoxy powder paint according to UNE 48-098-90 standards; UNE 48-031-80; UNE 48-026-80; UNE 48-024-80; UNE 48-032-80; UNE 48-183-84 48-024-80; UNE 48-032-80; UNE 48-183-84 and UNE 48-169-92 and subjected to demanding durability tests of aesthetic finish according to ISO 7253 and DIN 50021 standards, carried out in laboratories accredited by ENAC.
- The components made of aluminium 6060S alloy quality certified material according to UNE-EN 573-3 (chemical composition) and UNE-EN 755-2 (mechanical characteristics). With T-5 heat treatment.
- Components with an anodized finish silver anodized according to ISO 7599: 2010, with a micron size between 5-15µm according to ISO 2360: 2003, and a level 0 seal according to ISO 2143: 2010. Matte black anodized according to ISO 7599: 2010 with a micron of between less than 15µm according to ISO 2360: 2003 and dimension 0 sealing according to ISO 2143: 2010.
- The leveller consists of an M8 hexagonal steel screw, zinc plated and injected with> PA6 <. Leveller with regulation both in the plastic area and from the upper face by means of a screw.
- The work surface is made of CDF Compact Density Fibreboard (> 1'000 kg / m3) for non-structural use in high humidity conditions (EN 622-5), and external faces in melamine according to EN 14322. Resistance to abrasion, scratches, impacts, cracking and other technical capacities according to EN 14323 standards. Reaction to fire B-s2, d0 according to EN 13501-1. PEFC and FSC certified. TSCA Title VI Compliant for low formaldehyde emission. Renewable energy> 90%. Wood fibbers 65-75%. MUF-Resin 20-30%.
- The cable glands are made by injected part in> ABS <
- The glass components are type Matelux Clear 4 mm thermally tempered that meets the specifications of the UNE EN 12150 standard in sections 1 and 2, for building glass.



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