

WHASS

— By ITEMDesign Works —
Javier Cuñado



DESCRIPTION

- 1 **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- 2 Model with or without arms. Model with arms: **polypropylene (P.P) armrests**.
- 3 **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR.
- 4 **Bottom structure**: 1" x 1/2" steel tube bars, 1/4" thick.
Lower polypropylene frame covering the structure.
- 5 **Structure** made with cylindrical hot-rolled steel tubes, Ø1/2" and e=1/4", with a 90-micron thick epoxy paint coating.
- 6 **End caps** in a graphite grey finish.

SHELL



5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



Fabric T Fabric M Fabric D

PU SEAT



STRUCTURE FINISH



Ø1/2"x1/4" hot-rolled steel tube in a white, black, aluminised or chrome finish.

OPTIONAL ACCESSORIES



For **projects of facilities** that require **concatenated joints of the chairs** and **minimum quantities of 100 units**, consult with **Sales Department**.
Can only be used on armless Cantilever chairs.

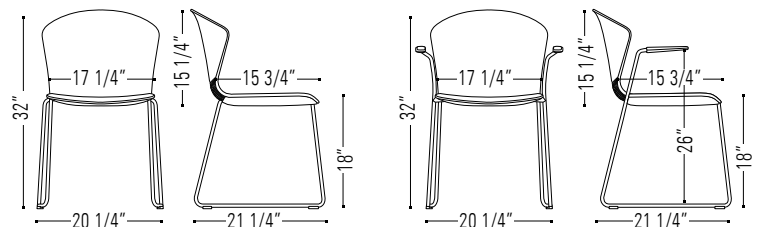


Optional removable writing tablet in 1/2" compact laminate; can be placed on the right or left.
Chairs with a writing tablet stack 4 chairs in the standard way.



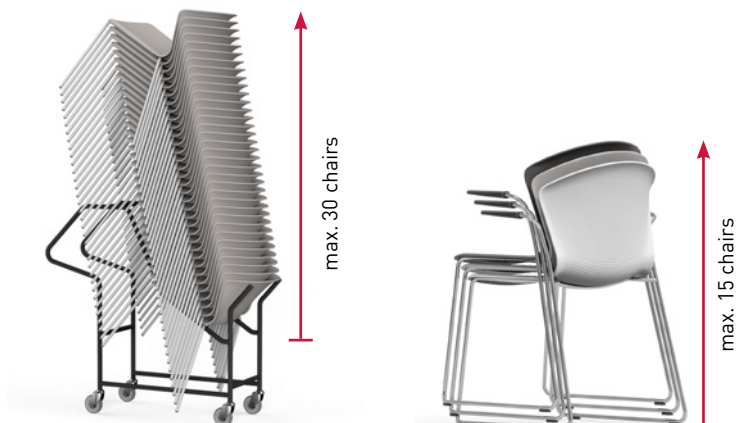
DIMENSIONS

- Total Height: 32"
- Total Width: 20 1/4"
- Total Depth: 21 1/4"
- Seat Height: 18" or 26" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



STACKING

The WHASS cantilever is designed for the seats to be stacked on top of one another, with the ability to stack **up to 30 chairs in the stacking cart** and **up to 15 chairs in the standard way**. (without an upholstered seat)



■ DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model with or without arms. Model with arms: **polypropylene (P.P) armrests**.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/ m3) in upholstered or PUR
- ④ **Bottom structure**: 1" x 1/2" steel tube bars, 3/4" thick.
Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø1/2" and e=2 mm, with a 90-micron thick epoxy paint coating.
- ⑥ **End caps** in a graphite grey finish with felt silent pad-anti scratch.



■ SHELL



5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



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■ PU SEAT



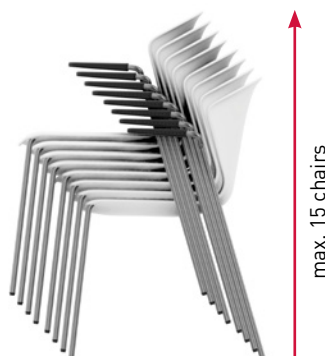
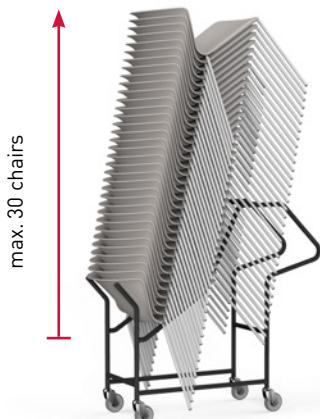
■ STRUCTURE FINISH



Ø1/2"x1/4" hot-rolled steel tube in a white, black, aluminised or chrome finish.

■ STACKING

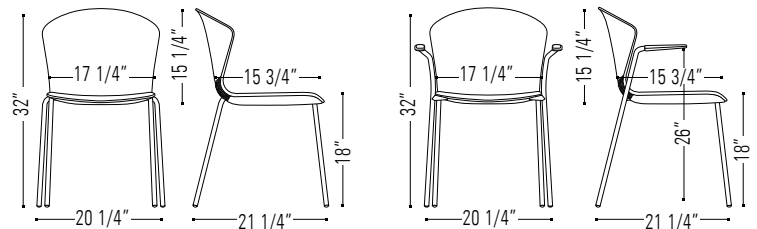
The 4 legs chairs is designed for the seats to be stacked on top of one another, with the ability to stack **up to 30 chairs in the stacking cart and up to 15 chairs in the standard way**. (without an upholstered seat)



■ DIMENSIONS

- Total Height: 32"
- Total Width: 20 1/4"
- Total Depth: 21 1/4"

- Seat Height: 18" or 18 3/4" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



■ OPTIONAL ACCESSORIES



Optional removable writing tablet in 1/2" compact laminate; can be placed on the right or left.

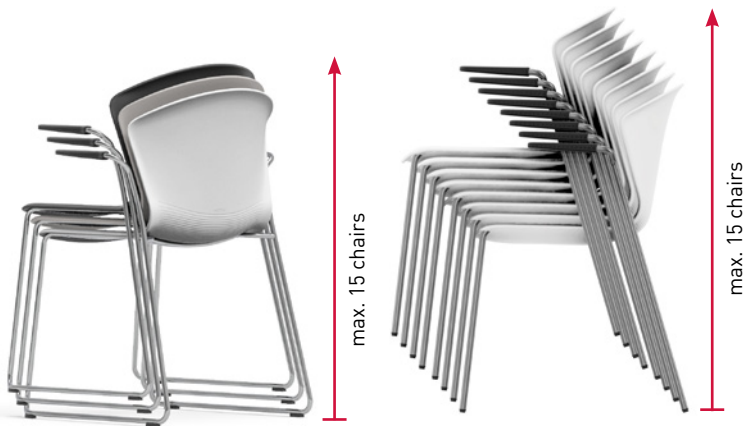
Chairs with a writing tablet stack 4 chairs in the standard way.

STACKABILITY

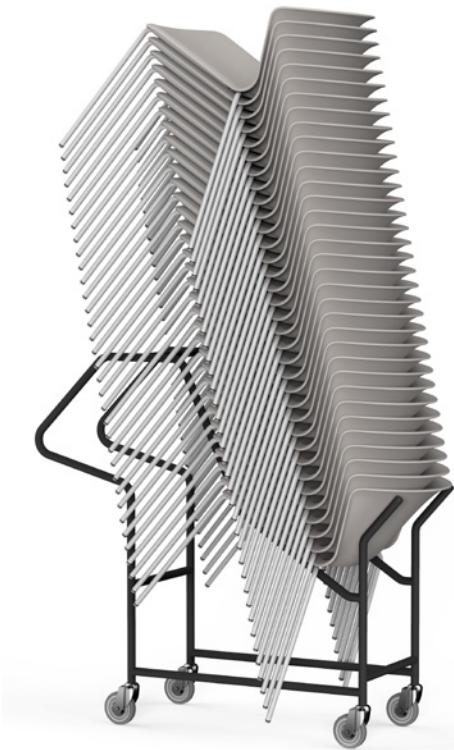
WHASS chair is designed to offer a very high stacking level on both models: 4 legs and cantilever frame.

WHASS cantilever frame provides the possibility of stacking up to **30 chairs on the trolley** and up to **15 chairs vertically positioned**. (only without seat pad).

On the other hand, the 4 legs model provides the possibility of stacking up to **30 chairs on the trolley** and up to **15 chairs vertically positioned**. (only without seat pad).

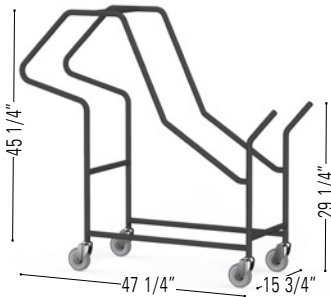


NOTE: We suggest that chrome frames are used on projects where intensive use is required and where stacking/unstacking of chairs is done very often. Nevertheless, you can check with Sales department a special option to have both 4 legs and cantilever frames painted in high-resistant two-coated white paint based on quantities only for projects.



stacking details

		Seat WITHOUT PAD (models with and without arms)		Seat WITH PAD (models with and without arms)	
		Trolley stacking capacity	Vertical stacking capacity	Trolley stacking capacity	Vertical stacking capacity
		Quantity of chairs	Quantity of chairs	Quantity of chairs	Quantity of chairs
4 legs model	With bottom cover	30	15	20	5
	Without bottom cover	30	15	--	--
Cantilever frame	With bottom cover	30	15	20	5
	Without bottom cover	40	20	--	--



NOTE: Chairs can also be ordered without the under-seat carcass only for Projects and based on quantities to improve the stacking capacity. Please check with **Sales department**.

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- ② **Model without arms.**
- ③ **Optional seat:** Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR
- ④ **Bottom structure:** 1" x 1/2" steel tube bars, 1/4" thick.
Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø1/2" and e=1/4", with a 90-micron thick epoxy paint coating.
- ⑥ Ø1/2"x1/4" hot-rolled steel cylindrical tube **footrest**. Protector for placing feet on chairs with a painted structure.
- ⑦ **End caps** in a graphite grey finish.

■ SHELL



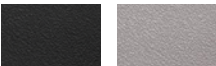
5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT

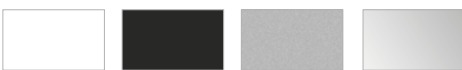


Fabric T Fabric M Fabric D

■ PU SEAT



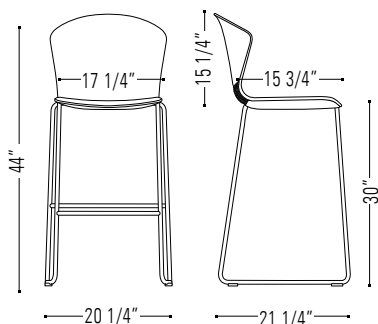
■ STRUCTURE FINISH



Ø1/2"x1/4" hot-rolled steel tube in a white, black, aluminised or chrome finish.

■ DIMENSIONS

- Total Height: 44"
- Total Width: 20 1/4"
- Total Depth: 21 1/4"
- Seat Height: 30" or 30 1/2" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



- **Not Stackable**



■ DESCRIPTION

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- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR
- ④ **Bottom structure**: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure.
- ⑤ **Wooden legs** with a conical shape in a natural beech wood or black lacquered finish.
- ⑥ Polypropylene (P.P) **End caps** in black with non-slip felt



■ SHELL



5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



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■ PU SEAT



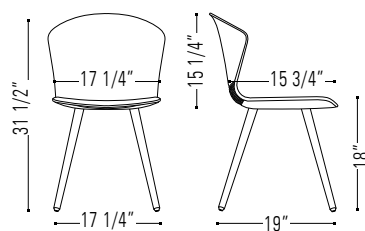
■ LEGS FINISH



Wooden legs with a conical shape in a beech wood finish.

■ DIMENSIONS

- Total Height: 31 1/2"
- Total Width: 17 1/4"
- Total Depth: 19"
- Seat Height: 18" or 18 1/2" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



■ DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR
- ④ **Bottom structure**: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Wooden legs** with a conical shape in a natural beech wood or black lacquered finish.
- ⑥ Ø1/2"x1/4" hot-rolled steel cylindrical tube **footrest**. Black Finish
- ⑦ Polypropylene (P.P) **End caps** in black with non-slip felt



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5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



Fabric T Fabric M Fabric D

■ PU SEAT



■ LEGS FINISH

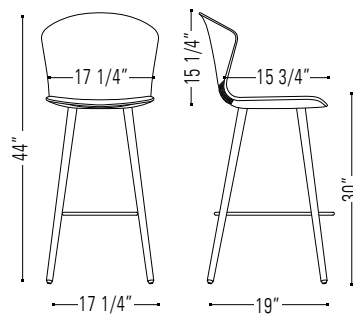


Wooden legs with a conical shape in a beech wood finish.

■ DIMENSIONS

- Total Height: 44"
- Total Width: 20 1/4"
- Total Depth: 21 1/4"

- Seat Height: 30" or 30 1/2" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



■ DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR
- ④ **Bottom structure**: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Gas lift**
- ⑥ 5-spoke rotating **base** made of injected aluminium or polyamide with fibreglass.
- ⑦ Standard silent **castors** Optional hole, antistatic or auto-brake castors.

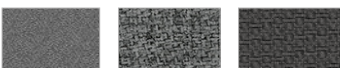


■ SHELL



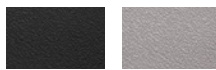
5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



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■ PU SEAT



■ BASE



Polyamide Base - Ø26 1/2"



Black



Aluminium injection base - Ø26 1/2"



White



Silver

■ DIMENSIONS

- Total Height: 34 1/4" - 38 1/2"
- Total Width: 26 1/2"
- Total Depth: 26 1/2"
- Seat Height: 16 1/2" - 21" or 17 1/4" - 21 1/2" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"

■ CASTORS AND CAPS

Standard Castors



Standard

Auto-breaking castors



Optional

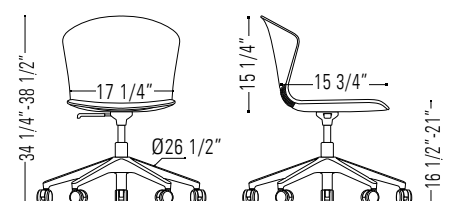
Auto-breaking Hole castors



Anti-static castors



Polypropylene caps



■ DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m³) in upholstered or PUR
- ④ **Bottom structure**: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Gas lift**
- ⑥ Ø3/4" x 1/4" chrome steel **footrest** ring, 1/4" thick.
- ⑦ 5-spoke rotating **base** 5-spoke rotating made of injected aluminium or polyamide with fibreglass.
- ⑧ Standard silent **castors** Optional hole, antistatic or auto-brake castors.



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5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



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■ BASE



Polyamide Base - Ø26 1/2"



Black



Aluminium injection base - Ø26 1/2"



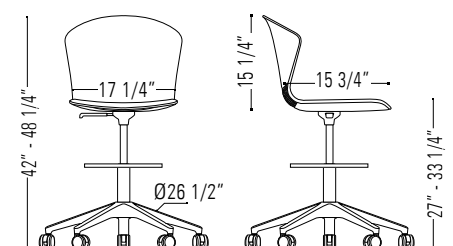
White



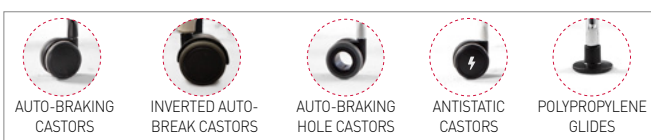
Silver

■ DIMENSIONS

- Total Height: 42" - 48 1/4"
- Total Width: 26 1/2"
- Total Depth: 26 1/2"
- Seat Height: 27" - 33 1/4" or 704-864 mm with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



■ CASTORS AND CAPS



DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m3) in upholstered or PUR
- ④ **Bottom structure**: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Gas lift**
- ⑥ 4-spoke rotating **base** made of injected aluminium.
- ⑦ Standard silent hole **castors**



SHELL



5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



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PU SEAT



BASE



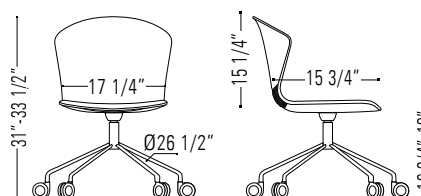
Aluminium injection base - Ø26 1/2"



White Silver Black

DIMENSIONS

- Total Height: 31" - 33 1/2"
- Total Width: 26 1/2"
- Total Depth: 26 1/2"
- Seat Height: 16 3/4" - 19" or 17 1/2" - 19 3/4" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"



DESCRIPTION

- ① **Polypropylene (P.P) frame**, 1/4" thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (110-120 kg/m3) in upholstered or PUR
- ④ **Bottom structure**: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Swivel seat**
- ⑥ 4-spoke rotating **base** made of injected aluminium.
- ⑦ Black non-slip **rubber pad**



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BASE



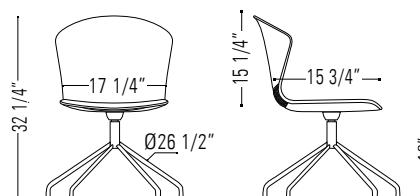
Aluminium injection base - Ø26 1/2"

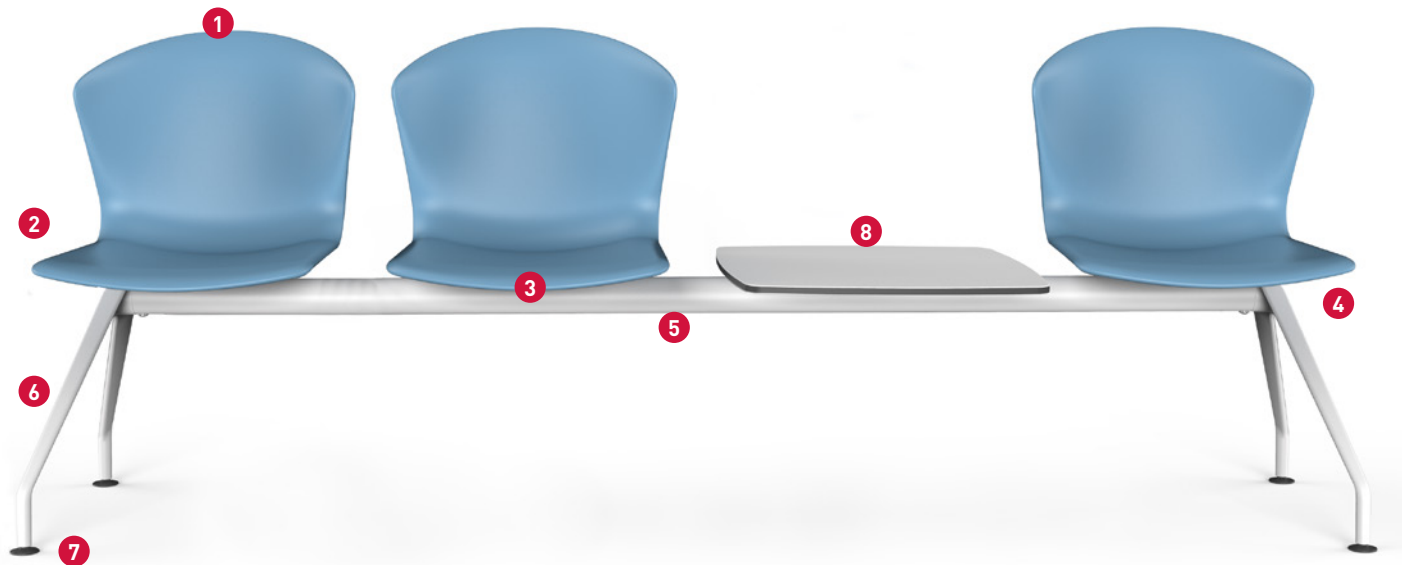


White Silver Black

DIMENSIONS

- Total Height: 32 1/4"
- Total Width: 26 1/2"
- Total Depth: 26 1/2"
- Seat Height: 18" or 19" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"





DESCRIPTION

- ① Polypropylene (P.P) frame, 1/4" thick, with glass fibre .
- ② Model without arms.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (110-120 kg/m3) in upholstered or PUR
- ④ **Bottom structure:** Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Lower steel tube structural beam,** 2 1/4" x 1/4"-thick circular section
- ⑥ **Injected aluminium legs** with a 90-micron thick epoxy paint coating
- ⑦ 1/4" thick polypropylene (P.P) **end caps** in a black finish.
- ⑧ **Optional C. Laminate table** in white or black finish - 1/2" thick

SHELL



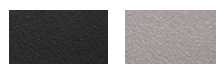
5 mm polypropylene (P.P) with 40% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



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PU SEAT



STRUCTURE FINISH

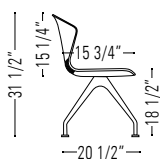


Aluminium injection legs



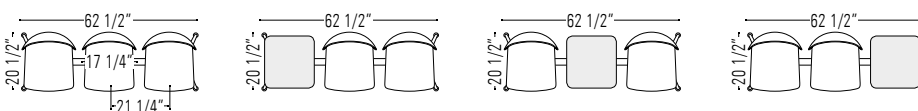
White Silver Black

DIMENSIONS

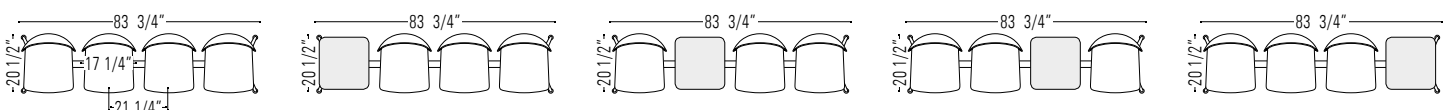


- Total Height: 31 1/2"
- Total Width: según modelos
- Total Depth: 20 1/2"
- Seat Height: 18 1/2" or 18 3/4" with cushioned seat
- Seat Width: 17 1/4"
- Seat Depth: 15 3/4"

Model 3 posts



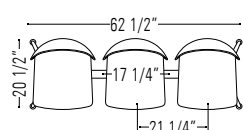
Model 4 posts



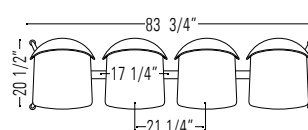
Model with seats



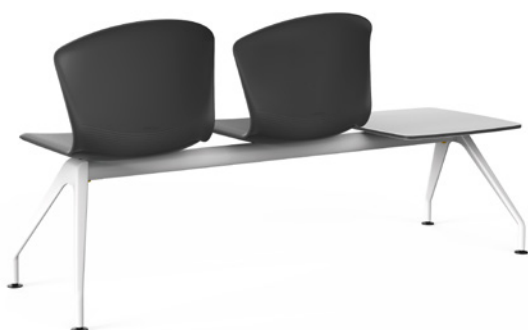
Model 3 posts



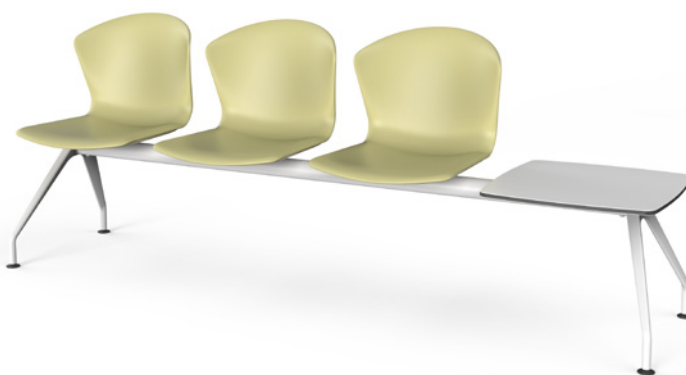
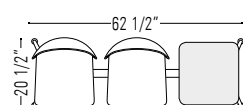
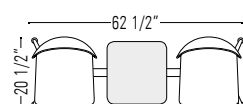
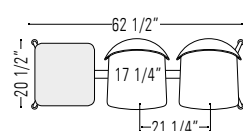
Model 4 posts



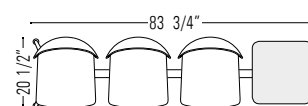
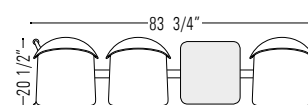
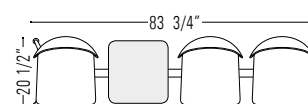
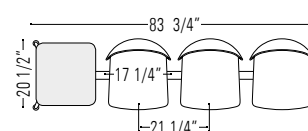
Model with seats with auxiliary table



Model 3 posts



Model 4 posts



■ Available combinations for these models



Cantilever



4 legs



Cantilever stool



White Frame

- Black arms
- White lower cover
- Structure - Any finish



Black Frame

- Black arms
- Black lower cover
- Structure - Any finish



Blue/Grey/Red/Lime Frame

- Black arms
- White lower cover
- Structure - White finish



Blue/Grey/Red/Lime Frame

- Black arms
- Black lower cover
- Structure - Black, Silver or Chrome finish

■ Available combinations for these models



4 wood legs



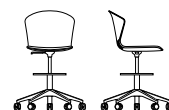
Wood legs stool



Base with 4-spoke



Gas lift



Draughtsman chair



Bench seating



Frame: Any finish

- Black lower cover
- Structure / Base - Any finish



MATERIALS

Maximum use of materials to eliminate and minimize scraps. Use of recyclable and recycled materials in those components that do not affect the functionality and durability.

Metal legs: **28,10%**
Cantilever stool: **34,41%**
Wood legs: **50,09%**
RECYCLED MATERIALS



PRODUCTION

Maximum optimization of energy use. Minimal environmental impact. Last generation technological systems. Zero discharge of wastewater. No VOC coatings. Processes free of heavy metals, phosphates, OC and COD.

100%
RECYCLABLE
ALUMINIUM, STEEL
& WOOD



TRANSPORT

Detachable systems. Volumes that facilitate the optimization of space. Maximum reduction of energy consumption by transport.

100%
RECYCLABLE
PACKAGE AND THINNER
FREE



USE

Quality and warranty. Long lasting. Replacements available.

EASY
TO CLEAN
AND MAINTAIN



DISPOSAL

Waste reduction. Supplier-manufacturer packaging reuse system. Components are easy to be separated. Inks in packaging are water-based, without solvents.

Metal legs: **49,71%**
Cantilever stool: **54,08%**
Wood legs: **50,34%**
RECYCLABLE MATERIALS

CERTIFICATES AND REFERENCES

The different programmes get points in different environmental categories to get the LEED certificate (sustainability, material and resources, water, energy and atmosphere, inner environment quality, innovation and design).



STANDARDS

Confident office chair. Standard applied

- **UNE-EN 16139:13.** Furniture. Resistance, long lasting, security. Requirements for non domestic use seating.
- **NF P92-507:2004.** Certificate of reaction to fire. Group M2