

WHASS

— By ITEMDesign Works —
Javier Cuñado



DESCRIPTION

- ① **Polypropylene (P.P) + 30% F.V. frame**, 5 mm 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 (115-125 kg/m³) in upholstered or PUR
- ④ **Bottom structure**: 24,5 x 12 mm ovale steel tube bars, 1.5 mm thick. Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø16mm 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. Optional polypropylene glides chair kit for mats/carpet floors.

SHELL

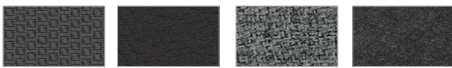


5 mm polypropylene (P.P) with 30% fiberglass in a wide range of colours.

UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric A0 Fabric AI



Fabric D Fabric V Fabric M Fabric A

PU SEAT



STRUCTURE FINISH



Ø13x2 mm hot-rolled steel tube in a white, black or chrome finish.

STACKING

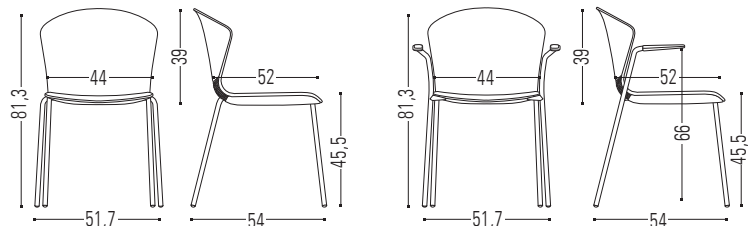
The 4 legs chairs is designed for the seats to be stacked on top of one another, with the ability to stack **up to 30 chairs in the stacking cart and up to 10 chairs in the standard way**. (without an upholstered seat)



DIMENSIONS

- Total Height: 813 mm
- Total Width: 517 mm
- Total Depth: 540 mm

- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



OPTIONAL ACCESSORIES



Optional removable writing tablet in 3 mm compact laminate; can be placed on the right or left.

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

DESCRIPTION

- ① **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
- ② **Model without arms.**
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m³) in upholstered or PUR
- ④ **Bottom structure:** 24,5 x 12 mm ovale steel tube bars, 1.5 mm thick.
Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø16mm 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.
Optional polypropylene glides chair kit for mats/carpet floors.



SHELL

5 mm polypropylene (P.P) with 30% fibreglass.



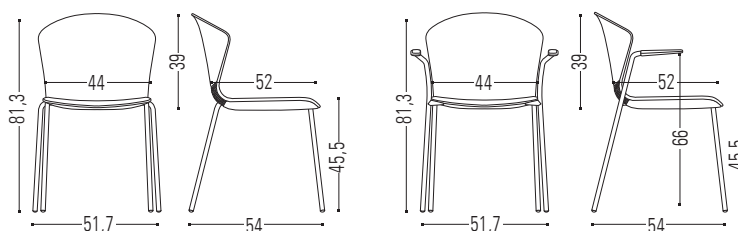
STRUCTURE FINISH

Ø13x2 mm hot-rolled steel tube in a blue or orange finish.

DIMENSIONS

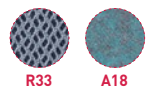
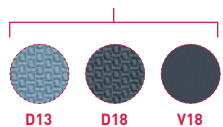
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- Total Width: 517 mm
- Total Depth: 540 mm

- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm

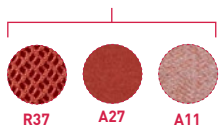


UPHOLSTERED SEAT

Blue Structure



Orange Structure



DESCRIPTION

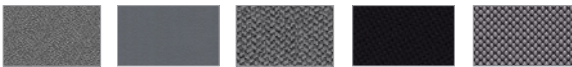
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- ② Model with or without arms. Model with arms: **polypropylene (P.P) armrests**.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (115-125 kg/ m3) in upholstered PUR.
- ④ **Bottom structure**: 24,5 x 12 mm ovale steel tube bars, 1,5 mm thick. Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø13mm 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. Optional polypropylene glides chair kit for mats/carpet floors.

SHELL

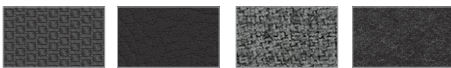


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric AO Fabric AI



Fabric D Fabric V Fabric M Fabric A

PU SEAT



STRUCTURE FINISH



Ø13x2 mm hot-rolled steel tube in a white, black or chrome finish.

OPTIONAL ACCESSORIES

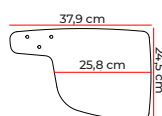


For **projects of facilities** that require **concatenated joints of the chairs** and **minimum quantities of 100 units**, consult with **Sales Department**.
Can only be used on armless Cantilever chairs.



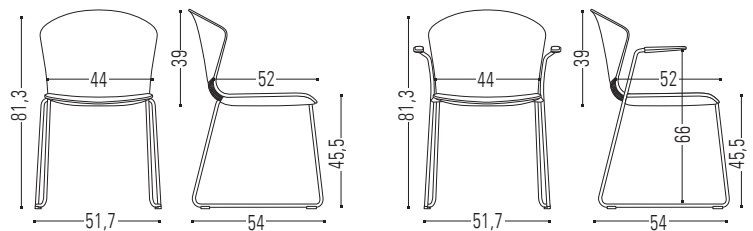
Optional removable writing tablet in 3 mm compact laminate; can be placed on the right or left.

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



DIMENSIONS

- Total Height: 813 mm
- Total Width: 517 mm
- Total Depth: 540 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



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 10 chairs in the standard way**. (without an upholstered seat)



max. 30 chairs



max. 15 chairs

DESCRIPTION

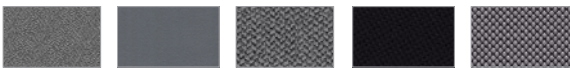
- 1 **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
- 2 **Model without arms.**
- 3 **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m³) in upholstered or PUR
- 4 **Bottom structure:** 24,5 x 12 mm ovale steel tube bars, 1.5 mm thick. Lower polypropylene frame covering the structure.
- 5 **Structure** made with cylindrical hot-rolled steel tubes, Ø13mm and e=2 mm, with a 90-micron thick epoxy paint coating.
- 6 Ø13x2 mm hot-rolled steel cylindrical tube **footrest**. Protector for placing feet on chairs with a painted structure.
- 7 **End caps** in a graphite grey finish with felt silent pad-anti scratch. Optional polypropylene glides chair kit for mats/carpet floors.

SHELL

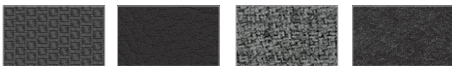


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric AO Fabric AI



Fabric D Fabric V Fabric M Fabric A

PU SEAT



STRUCTURE FINISH

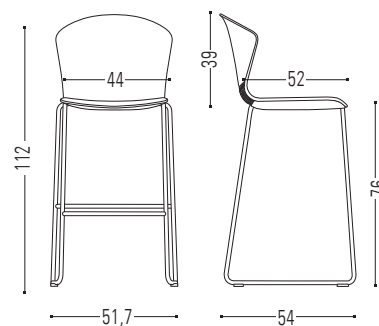


Ø13x2 mm hot-rolled steel tube in a white, black or chrome finish.



DIMENSIONS

- Total Height: 1120 mm
- Total Width: 517 mm
- Total Depth: 540 mm
- Seat Height: 760 mm or 779 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm

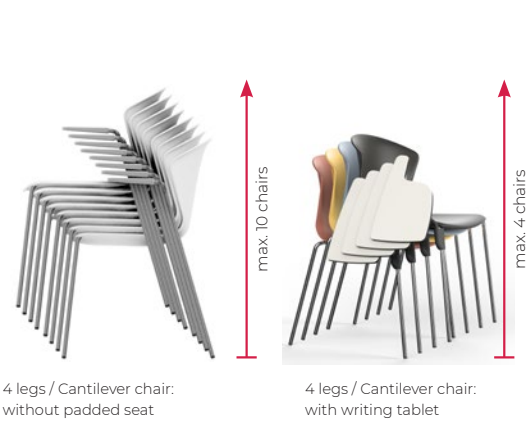


- Not Stackable

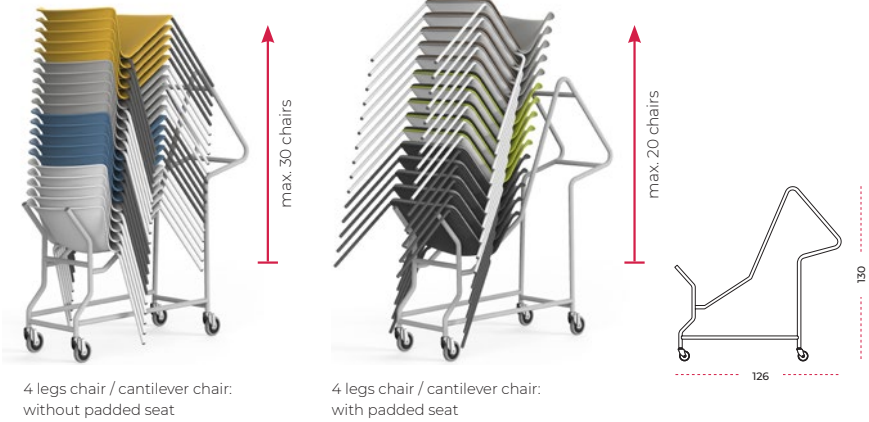
Stacking

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 10 chairs in the standard way.** (without an upholstered seat)

Vertical Stacking



Trolley stacking



stacking details

		Seat WITHOUT PAD		Seat WITH PAD	
		Model without arms	Models with and without arms	Model without arms	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	10	20	5
	Without bottom cover	30	10	--	--
	With writing tablet	--	4	--	4
Cantilever frame	With bottom cover	30	10	20	5
	Without bottom cover	40	10	--	--
	With writing tablet	--	4	--	4

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 (115-125 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 Polypropylene (P.P) **End caps** in black with non-slip felt. Optional polypropylene glides chair kit for mats/carpet floors.



■ SHELL

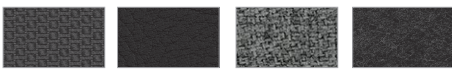


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT

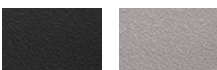


Fabric T Fabric U Fabric AE Fabric AO Fabric AI

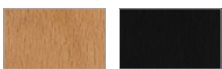


Fabric D Fabric V Fabric M Fabric A

■ PU SEAT



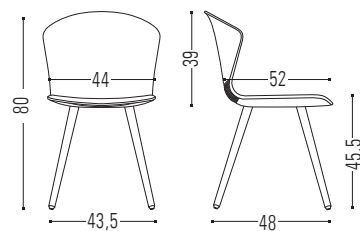
■ LEGS FINISH



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

■ DIMENSIONS

- Total Height: 800 mm
- Total Width: 440 mm
- Total Depth: 480 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



■ DESCRIPTION

- ① **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
- ② Model without arms.
- ③ **Optional seat**: Upholstered with an ergonomic cushion (115-125 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 Ø13x2 mm hot-rolled steel cylindrical tube **footrest**. Black Finish
- ⑦ Polypropylene (P.P) **End caps** in black with non-slip felt. Optional polypropylene glides chair kit for mats/carpet floors.

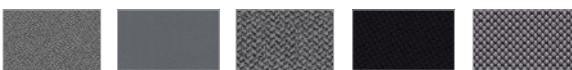


■ SHELL

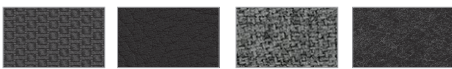


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



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■ PU SEAT



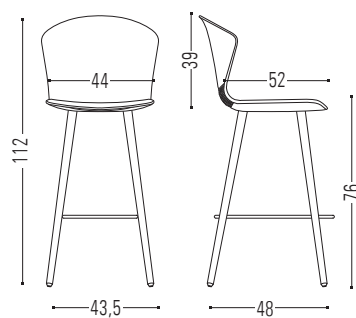
■ LEGS FINISH



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

■ DIMENSIONS

- Total Height: 1120 mm
- Total Width: 517 mm
- Total Depth: 540 mm
- Seat Height: 760 mm or 779 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



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- ① **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
 - ②
 - ③ Model without arms.
 - Optional seat:** Upholstered with an ergonomic cushion (115-125 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
 - ⑦ 5-spoke rotating **base** made of polyamide with fibreglass.
- Standard silent **castors** Optional hole, antistatic or auto-brake castors.



■ SHELL

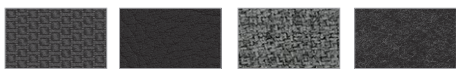


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric A0 Fabric AI

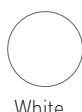


Fabric D Fabric V Fabric M Fabric A

■ PU SEAT



■ BASE



White



Black

Polyamide Base - Ø67.5 cm

■ DIMENSIONS

- Total Height: 870 -970 mm
- Total Width: 640 mm
- Total Depth: 640 mm
- Seat Height: 420-530 mm or 439-549 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm

■ CASTORS AND CAPS

Standard Castors



Standard

Auto-Brakeing castors



Optional

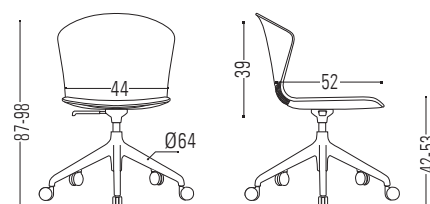
Auto-Brakeing Hole castors



Anti-static castors



Polypropylene caps



DESCRIPTION

- 1 **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
- 2 Model without arms.
- 3 **Optional seat:** Upholstered with an ergonomic cushion (115-125 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 Ø18 x 1.5mm chrome steel **footrest** ring, 1.5 mm thick.
- 7 5-spoke rotating **base** 5-spoke rotating made of polyamide with fibreglass.
- 8 Inverted auto-brake **castors**. Optional polypropylene caps.



SHELL

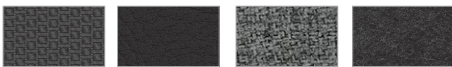


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric A0 Fabric AI



Fabric D Fabric V Fabric M Fabric A

PU SEAT



BASE



Black

Polyamide Base - Ø67.5 cm

CASTORS AND CAPS

INVERTED AUTO-
Brake CASTORS



Standard

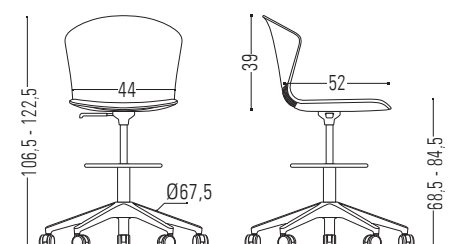
POLYPROPYLENE
GLIDES



Optional

DIMENSIONS

- Total Height: 1065-1225 mm
- Total Width: 675 mm
- Total Depth: 675 mm
- Seat Height: 685-845 mm or 704-864 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



■ DESCRIPTION

- ① **Polypropylene (P.P) + 30% F.V. frame**, 5mm thick, with glass fibre.
- ②
- ③ Model without arms.
- Optional seat:** Upholstered with an ergonomic cushion (115-125 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
- ⑥ **Gas lift**
4-spoke rotating **base** made of injected aluminium.
- ⑦ **Standard silent hole castors**



■ SHELL

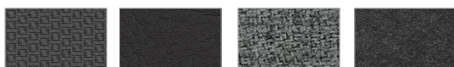


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT

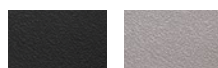


Fabric T Fabric U Fabric AE Fabric A0 Fabric AI



Fabric D Fabric V Fabric M Fabric A

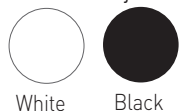
■ PU SEAT



■ BASE



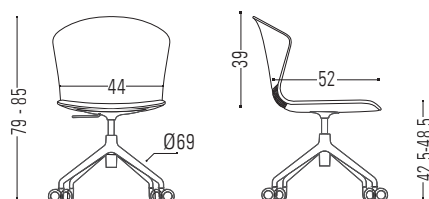
Aluminium injection base - Ø69 cm



White Black

■ DIMENSIONS

- Total Height: 790 -850 mm
- Total Width: 690 mm
- Total Depth: 690 mm
- Seat Height: 425-485 mm or 443-504 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm



■ DESCRIPTION

① **Polypropylene (P.P) + 30% F.V. frame**, 5mm thick, with glass fibre.

② Model without arms.

③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 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**. Optional polypropylene glides chair kit for mats/carpet floors.



■ SHELL

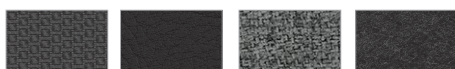


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ UPHOLSTERED SEAT



Fabric T Fabric U Fabric AE Fabric A0 Fabric AI



Fabric D Fabric V Fabric M Fabric A

■ PU SEAT



■ BASE



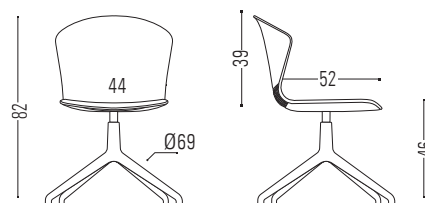
Aluminium injection base - Ø69 cm

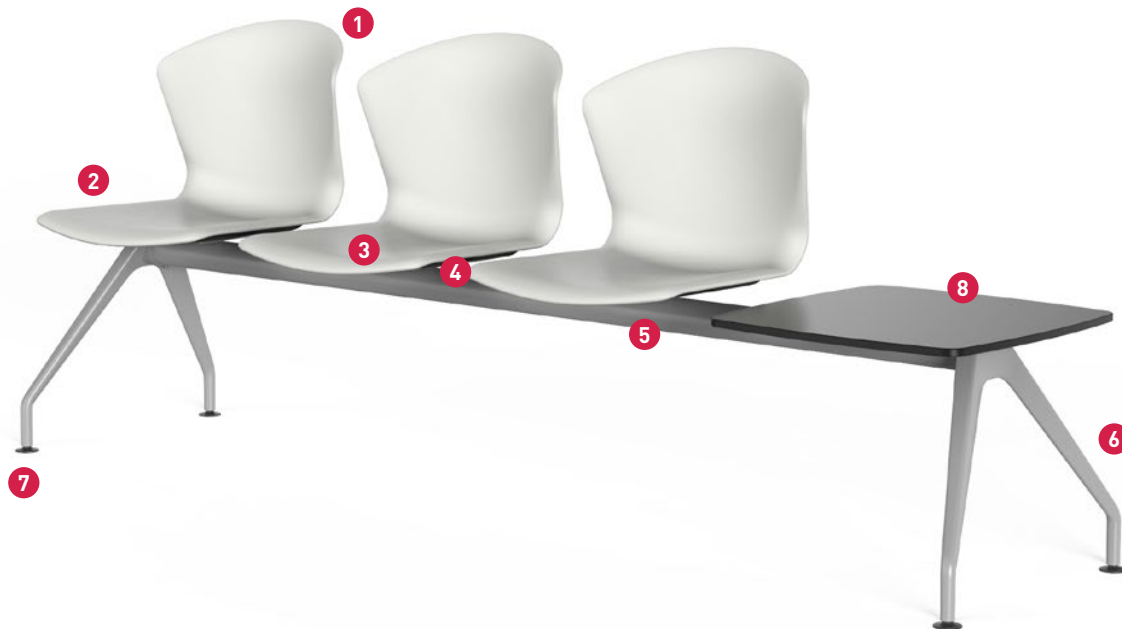


White Black

■ DIMENSIONS

- Total Height: 820 mm
- Total Width: 690 mm
- Total Depth: 690 mm
- Seat Height: 460 mm or 479 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm





■ DESCRIPTION

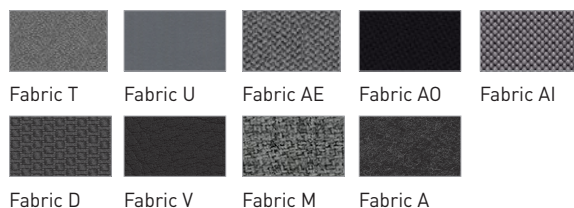
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- ② Model without arms.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m3) in upholstered or PUR
- ④ **Bottom structure:** Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑤ **Lower steel tube structural beam,** 60 x 3 mm-thick circular section
- ⑥ **Injected aluminium legs** with a 90-micron thick epoxy paint coating
- ⑦ 3 mm thick polypropylene (P.P) **end caps** in a black finish.
- ⑧ **Optional C. Laminate table** in white or black finish - 13 mm thick

■ SHELL



5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

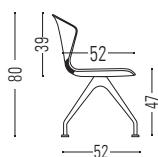
■ UPHOLSTERED SEAT



■ PU SEAT

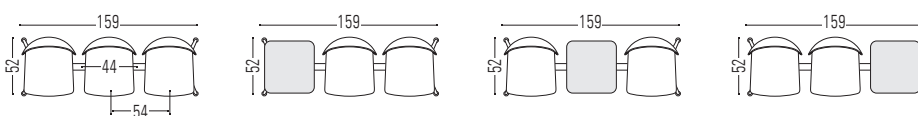


■ DIMENSIONS

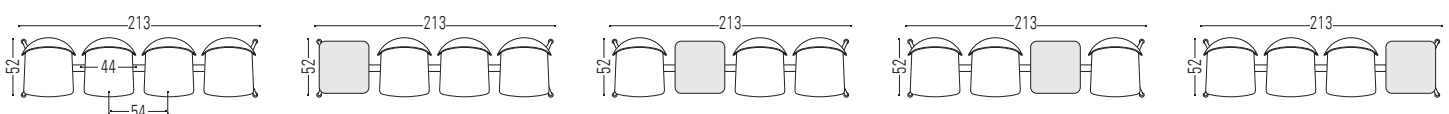


- Total Height: 800 mm
- Total Width: según modelos
- Total Depth: 520 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm

Model 3 posts



Model 4 posts



■ STRUCTURE FINISH



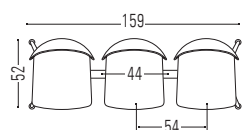
Aluminium injection legs



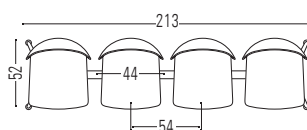
Model with seats



Model 3 posts



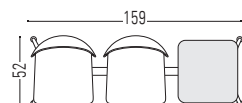
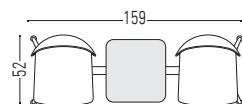
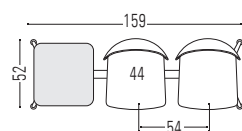
Model 4 posts



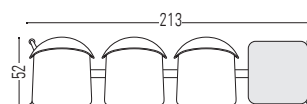
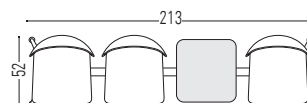
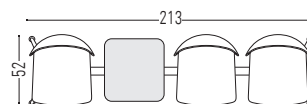
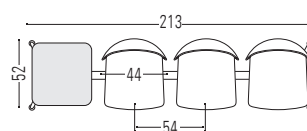
Model with seats with auxiliary table



Model 3 posts



Model 4 posts



■ Available combinations for the following models:

4 legs Cantilever Cantilever stool Base with 4-spoke Gas lift Draughtsman chair Bench seating



White Frame

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



Black Frame

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



**Blue/Grey/Dark Orange/
Pistachio/Mustard**

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



**Blue/Grey/Dark Orange/Pistachio/
Mustard**

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

■ Available combinations for the following models:

4 wood legs



Wood legs stool



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.

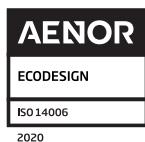
Metal legs: **49,71%**
Cantilever stool: **54,08%**
Wood legs: **50,34%**
RECYCLABLE MATERIALS

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).



The mark of responsible forestry



STANDARDS

Whass has passed the tests carried out in our laboratory and the tests performed at the Instituto Tecnológico del Mueble (AIDIMME) corresponding to the standards:

Regulations	Description
UNE-EN 16139:2013vc2015	Furniture. Strength, durability and safety. Requirements for non-domestic seating.