

# WHASS

— By ITEMDesign Works —  
Javier Cuñado



■ **DESCRIPTION**

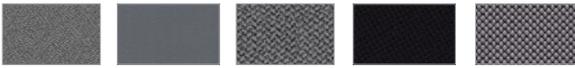
- ① **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
- ② Model with or without arms. Model with arms: **polypropylene (P.P) armrests**.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m<sup>3</sup>) in upholstered or PUR
- ④ **Bottom structure:** 24,5 x 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**

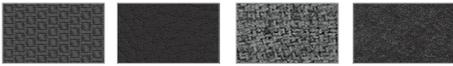


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **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.

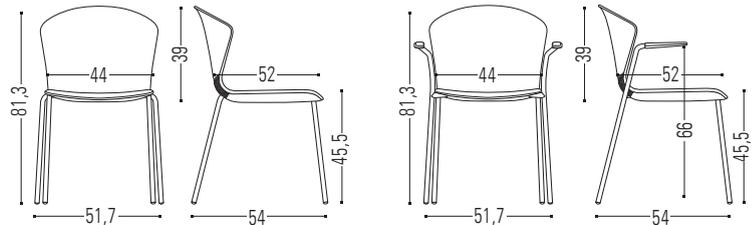
■ **STACKING**

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.*

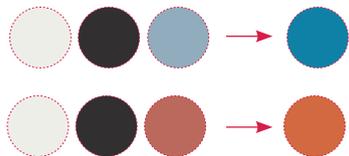
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- ④ **Bottom structure:** 24,5 x 12 mm ovale steel tube bars, 1.5 mm thick. Lower polypropylene frame covering the structure.
- ⑤ **Structure** made with cylindrical hot-rolled steel tubes, Ø16mm and e=2 mm, with a 90-micron thick epoxy paint coating.
- 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.



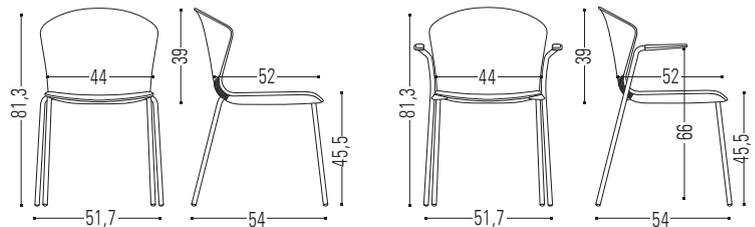
■ **STRUCTURE FINISH**

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

■ **DIMENSIONS**

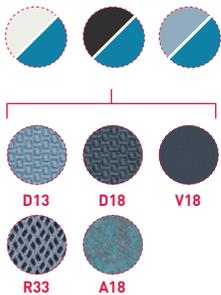
- Total Height: 813 mm
- Total Width: 517 mm
- Total Depth: 540 mm

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



■ **UPHOLSTERED SEAT**

Blue Structure



Orange Structure



■ **DESCRIPTION**

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

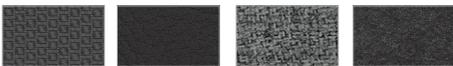


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **UPHOLSTERED SEAT**



Fabric T   Fabric U   Fabric AE   Fabric AO   Fabric AI



Fabric D   Fabric V   Fabric M   Fabric A

■ **PU SEAT**



■ **STRUCTURE FINISH**

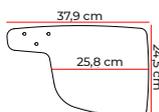


Ø13x2 mm hot-rolled steel tube in a white, black or chrome finish.

■ **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.*



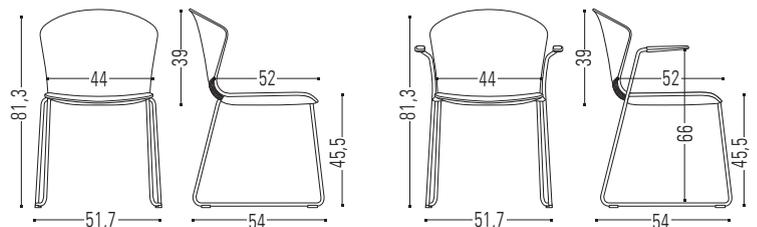
Optional removable writing tablet in 3 mm compact laminate; can be placed on the right or left.

*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)



■ **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/m<sup>3</sup>) 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**

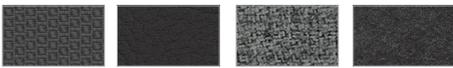


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **UPHOLSTERED SEAT**



Fabric T   Fabric U   Fabric AE   Fabric AO   Fabric AI



Fabric D   Fabric V   Fabric M   Fabric A

■ **PU SEAT**



■ **STRUCTURE FINISH**

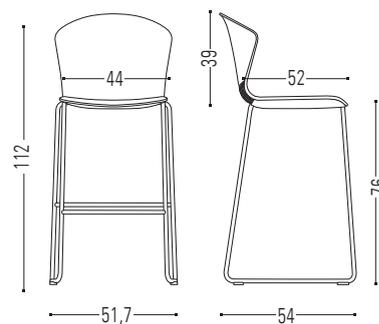


Ø13x2 mm hot-rolled steel tube in a white, black or chrome finish.



■ **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



4 legs / Cantilever chair:  
without padded seat

4 legs / Cantilever chair:  
with writing tablet

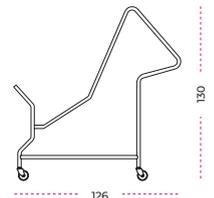
### Trolley stacking



4 legs chair / cantilever chair:  
without padded seat



4 legs chair / cantilever chair:  
with padded seat



### stacking details

		Seat <b>WITHOUT PAD</b>		Seat <b>WITH PAD</b>	
		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
<b>4 legs model</b>	With bottom cover	30	10	20	5
	Without bottom cover	30	10	--	--
	With writing tablet	--	4	--	4
<b>Cantilever frame</b>	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/m<sup>3</sup>) 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.

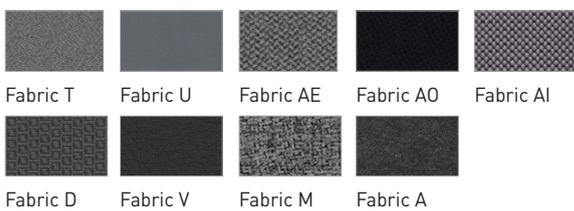


■ **SHELL**



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

■ **UPHOLSTERED SEAT**



■ **PU SEAT**



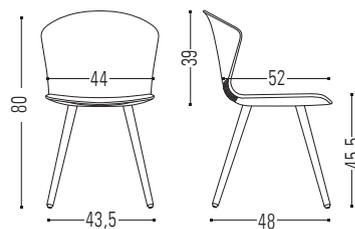
■ **LEGS FINISH**



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**

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- ② Model without arms.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m<sup>3</sup>) 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.

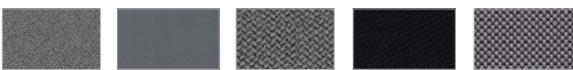


■ **SHELL**

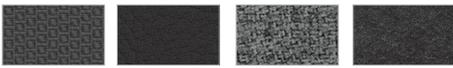


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **UPHOLSTERED SEAT**



Fabric T    Fabric U    Fabric AE    Fabric AO    Fabric AI



Fabric D    Fabric V    Fabric M    Fabric A

■ **PU SEAT**



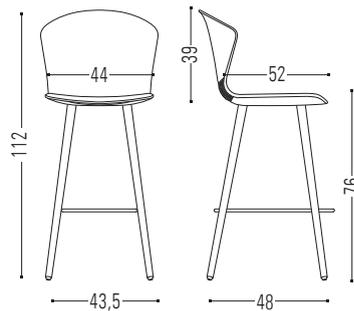
■ **LEGS FINISH**



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

■ **DIMENSIONS**

- Total Height: 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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- ②
- ③ Model without arms.
- Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m<sup>3</sup>) 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**
- ⑦ 5-spoke rotating **base** made of polyamide with fibreglass.  
Standard silent **castors** Optional hole, antistatic or auto-brake castors.



■ **SHELL**

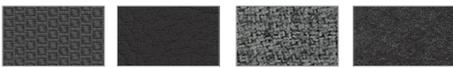


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **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

■ **CASTORS AND CAPS**

Standard Castors



**Standard**

Auto-Brakeing castors



**Optional**

Auto-Brakeing Hole castors



Anti-static castors

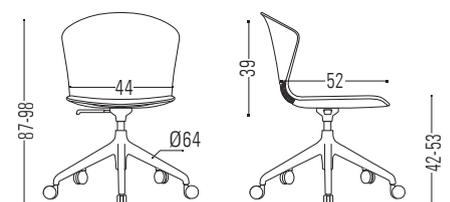


Polypropylene caps



■ **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



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- ② Model without arms.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m<sup>3</sup>) 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**

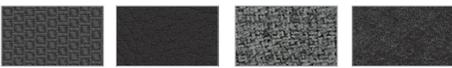


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **UPHOLSTERED SEAT**



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■ **PU SEAT**



■ **BASE**



Black

Polyamide Base - Ø67.5 cm

■ **CASTORS AND CAPS**

INVERTED AUTO-  
Brake CASTORS



**Standard**

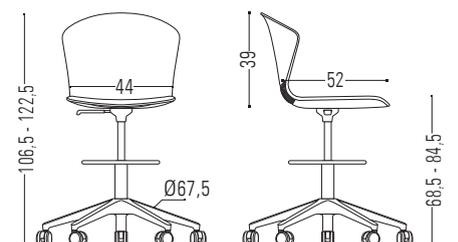
POLYPROPYLENE  
GLIDES



**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 aluminium, 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**

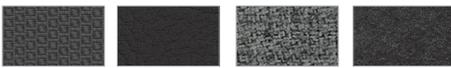


5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

■ **UPHOLSTERED SEAT**



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Fabric D   Fabric V   Fabric M   Fabric A

■ **PU SEAT**



■ **BASE**



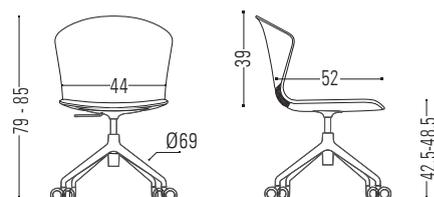
Aluminium injection base - Ø69 cm



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



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- ②
- ③ Model without arms.
- ④ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m<sup>3</sup>) in upholstered or PUR
- ⑤ **Bottom structure:** Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability, covering the structure
- ⑥ **Swivel seat**
- ⑦ 4-spoke rotating **base** made of injected aluminium.  
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**



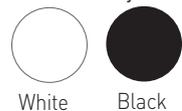
■ **PU SEAT**



■ **BASE**

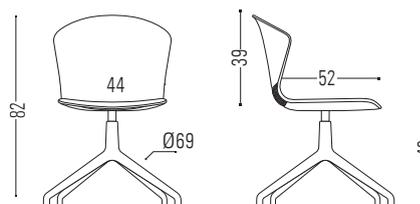


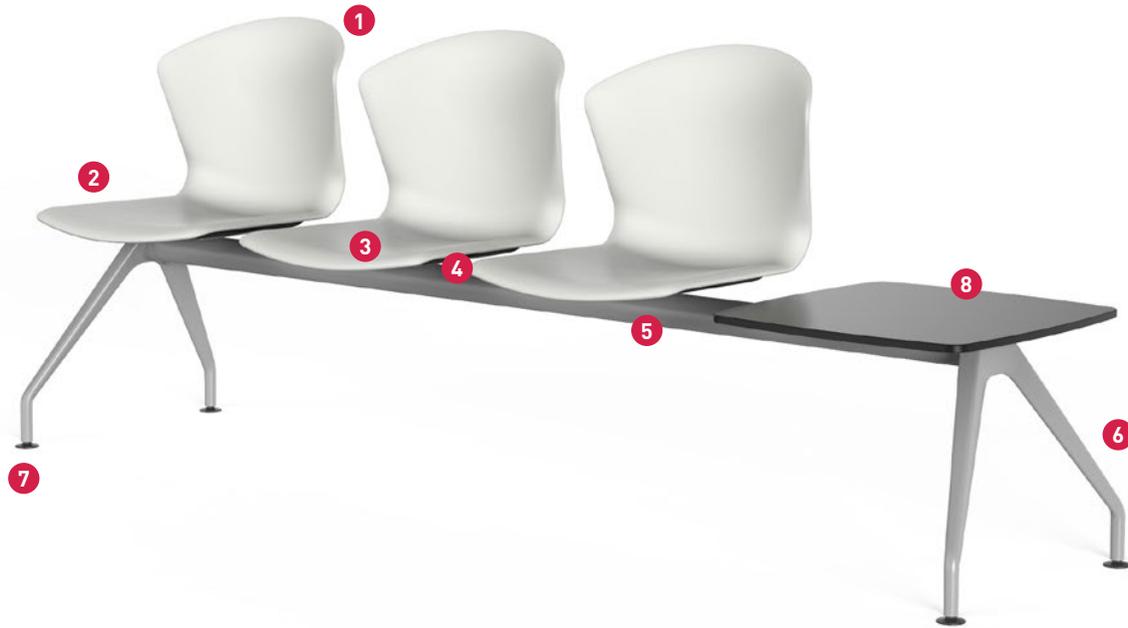
Aluminium injection base - Ø69 cm



■ **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**

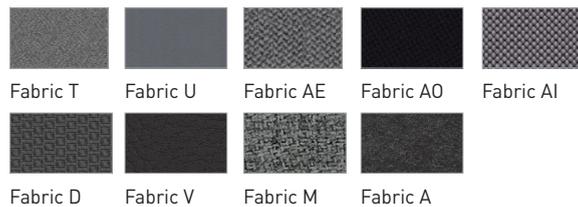
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- ② Model without arms.
- ③ **Optional seat:** Upholstered with an ergonomic cushion (115-125 kg/m3) in upholstered or PUR
- ④ **Bottom structure:** Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness 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.

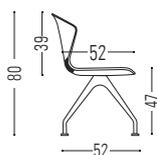
■ **UPHOLSTERED SEAT**



■ **PU SEAT**

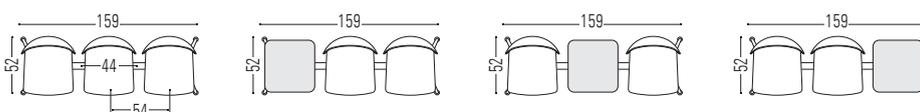


■ **DIMENSIONS**

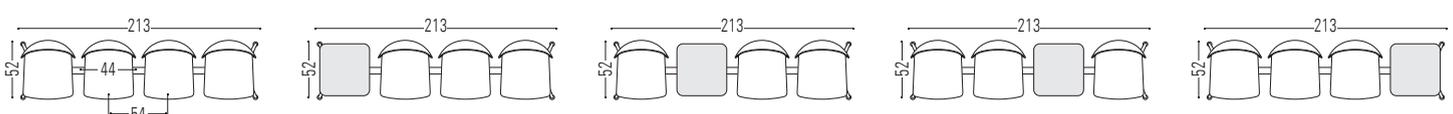


- Total Height: 800 mm
- Total Width: según modelos
- Total Depth: 520 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 520 mm

**Model 3 posts**



**Model 4 posts**



■ **STRUCTURE FINISH**



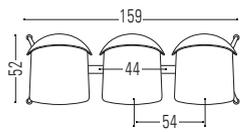
Aluminium injection legs



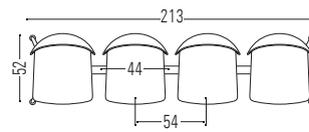
**Model with seats**



Model 3 posts



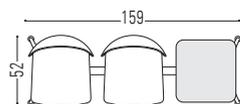
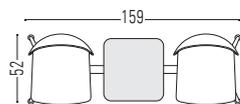
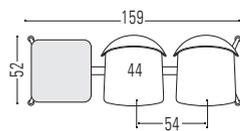
Model 4 posts



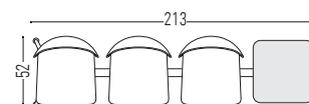
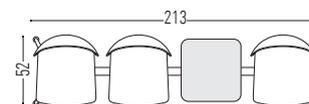
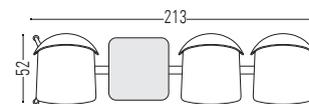
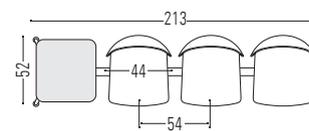
**Model with seats with auxiliary table**



Model 3 posts



Model 4 posts



■ Available combinations for the following models:



**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:



**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.