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.

SHELL

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

UPHOLSTERED SEAT

Fabric T | Fabric M | Fabric D | Fabric V | Fabric U

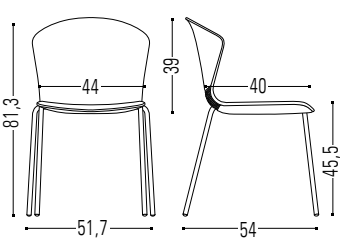
PU SEAT

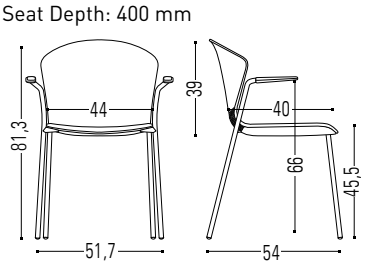
STRUCTURE FINISH

Ø13x2 mm hot-rolled steel tube in a white, black or chrome 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: 400 mm





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)

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

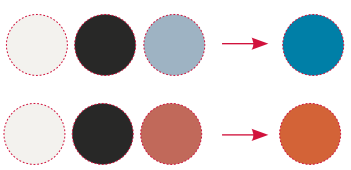
1. **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
2. **Model without arms.**
3. **Optional seat**: Upholstered with an ergonomic cushion (115-125 kg/m3) in upholstered or PUR
4. **Bottom structure**: 24,5 x 12 mm ovale steel tube bars, 1.5 mm thick. Lower polypropylene frame 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.

SHELL

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

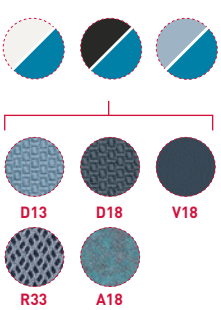
STRUCTURE FINISH

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

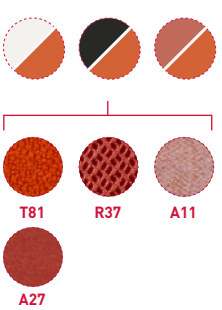


UPHOLSTERED SEAT

Blue Structure

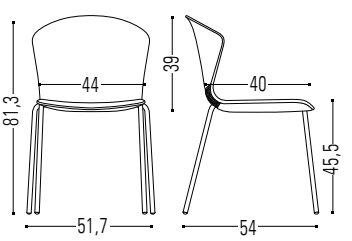


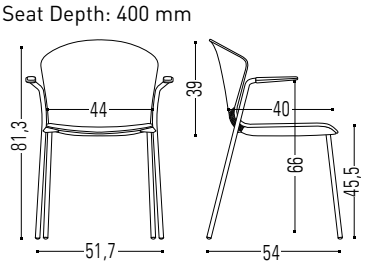
Orange Structure



DIMENSIONS

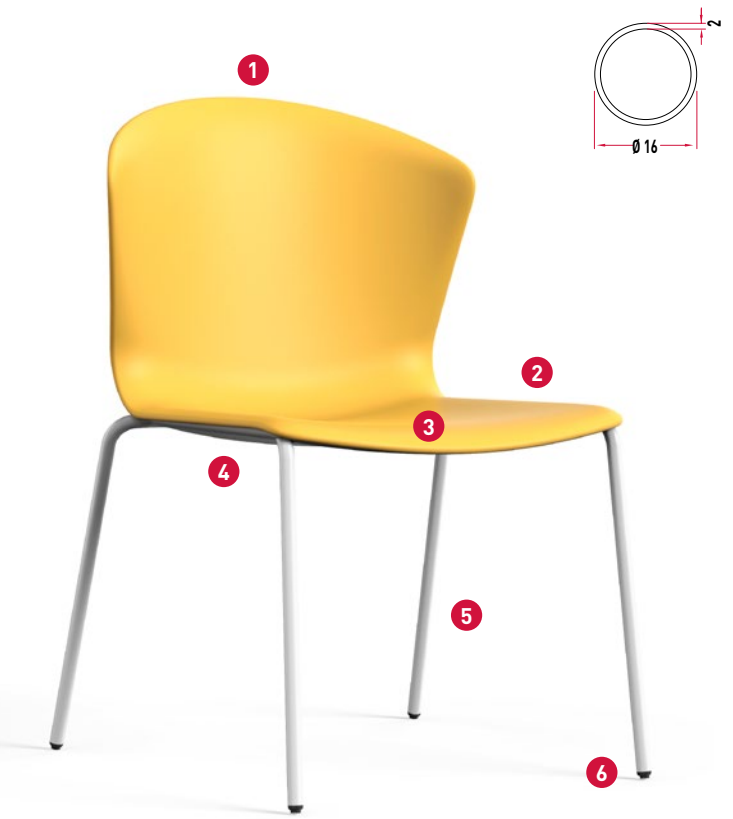
- Total Height: 813 mm
- Total Width: 517 mm
- Total Depth: 540 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 400 mm





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**: 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.



SHELL

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

UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V

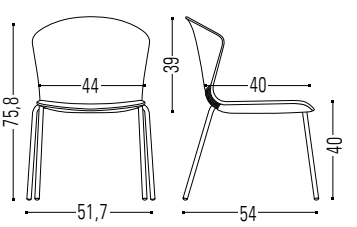
PU SEAT

STRUCTURE FINISH

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

DIMENSIONS

- Total Height: 758 mm
- Total Width: 517 mm
- Total Depth: 540 mm
- Seat Height: 400 mm or 419 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 400 mm



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 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.

SHELL

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

UPHOLSTERED SEAT

Fabric T | Fabric M | Fabric D | Fabric V | Fabric U

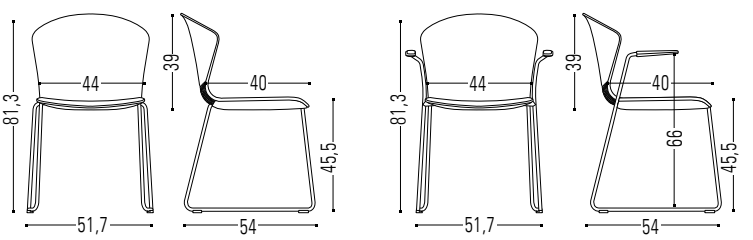
PU SEAT

STRUCTURE FINISH

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

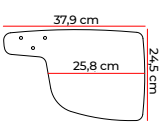
DIMENSIONS

- 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: 400 mm



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.

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/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.

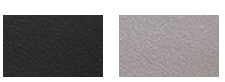
SHELL

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

UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT

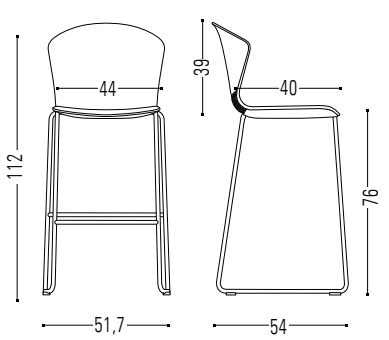


STRUCTURE FINISH

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: 400 mm

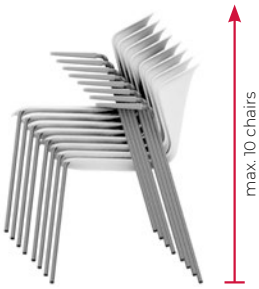


- **Not Stackable**

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



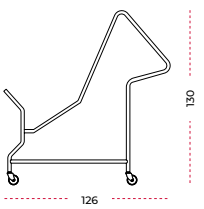
4 legs / Cantilever chair:
without padded seat

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 **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**	**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.**

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. Polypropylene (P.P) **End caps** in black with non-slip felt

SHELL

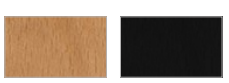
5 mm polypropylene (P.P) with 30% fibreglass in a wide range of colours.

UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT

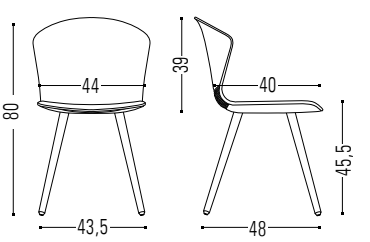
LEGS FINISH



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: 400 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. **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

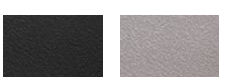
SHELL

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

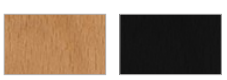
UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT



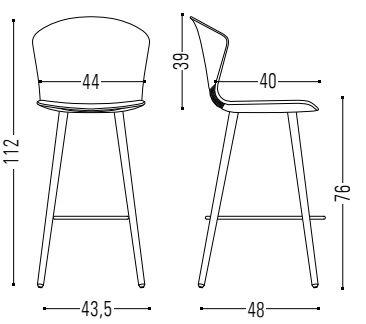
LEGS FINISH



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: 400 mm



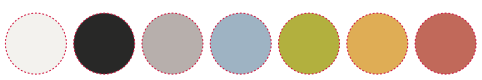
DESCRIPTION

1. **Polypropylene (P.P) + 30% F.V. frame**, 5 mm thick, with glass fibre.
2. Model without arms.

   Optional seat: Upholstered with an ergonomic cushion (115-125 kg/m3) in upholstered or PUR
3.
   Bottom structure: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability,covering the structure .
4. **Gas lift**
5. 5-spoke rotating **base** made of polyamide with fibreglass.

   Standard silent **castors** Optional hole, antistatic or auto-brake castors.
6.
7.

SHELL



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

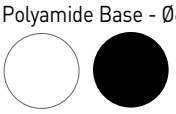
UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT

BASE

Polyamide Base - Ø67.5 cm



White Black

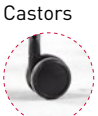
DIMENSIONS

- 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: 400 mm

CASTORS AND CAPS

Standard Castors



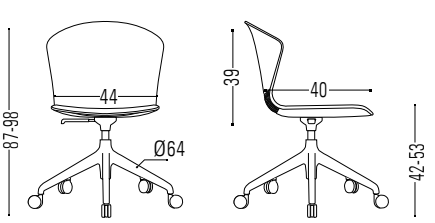
Auto-breaking castors

Auto-breaking Hole castors

Anti-static castros

Polypropylene caps

Standard **Optional**



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 M Fabric D Fabric V Fabric U

PU SEAT

BASE

Polyamide Base - Ø67.5 cm

Black

CASTORS AND CAPS

INVERTED AUTO-BREAK CASTORS

Standard

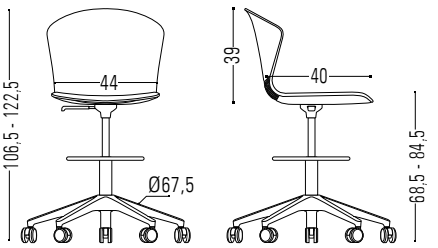
POLYPROPYLENE GLIDES

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: 400 mm



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2. Model without arms.

   Optional seat: Upholstered with an ergonomic cushion (115-125 kg/m3) in upholstered or PUR
3.

   Bottom structure: Bottom structure: Bottom frame of injected aluminum, which gives the chair greater precision, lightness and recyclability,covering the structure
4. **Gas lift**

   4-spoke rotating **base** made of injected aluminium.
5.

   Standard silent hole **castors**

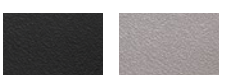
SHELL

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

UPHOLSTERED SEAT

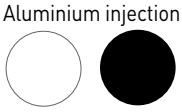
Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT



BASE

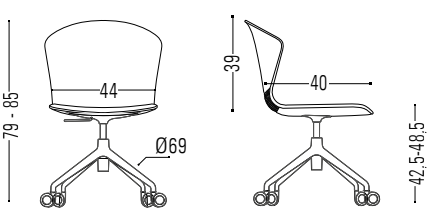
Aluminium injection base - Ø69 cm



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: 400 mm



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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. **Swivel** seat
6. 4-spoke rotating **base** made of injected aluminium.
   Black non-slip **rubber pad**

SHELL

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

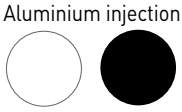
UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT

BASE

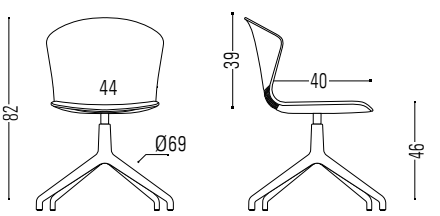
Aluminium injection base - Ø69 cm

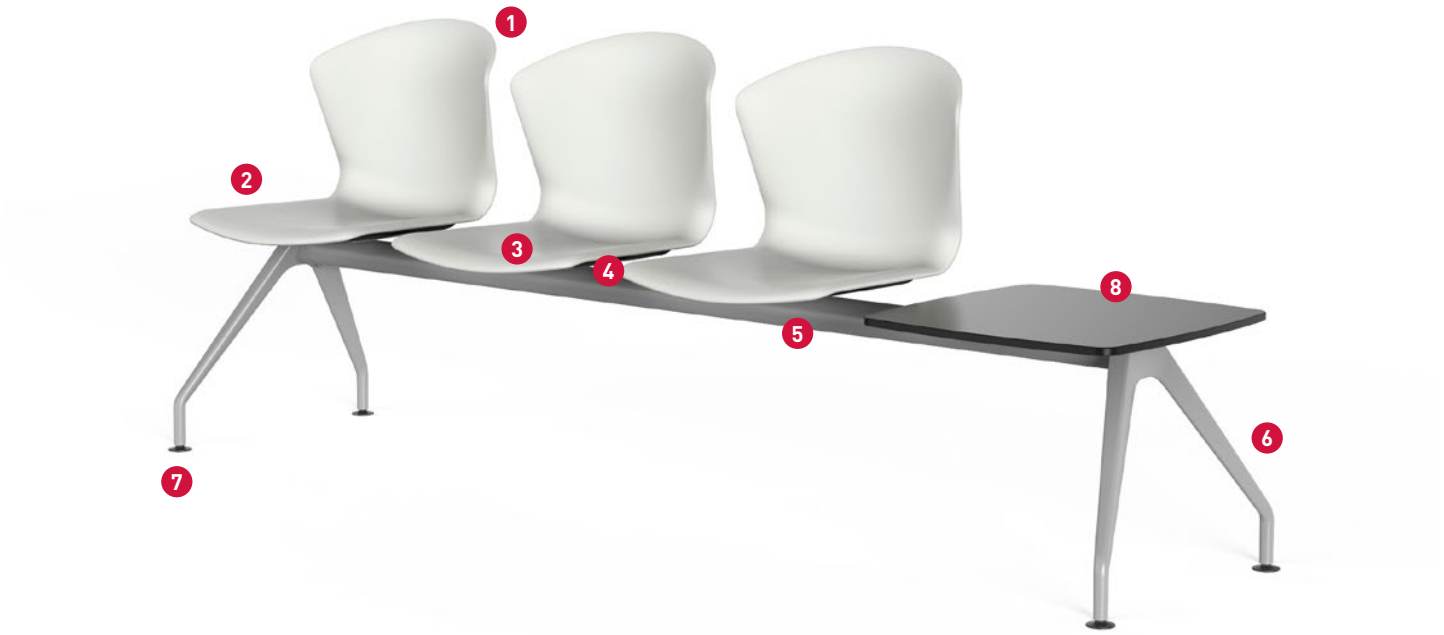


White Black

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: 400 mm





DESCRIPTION

1. Polypropyle**ne (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. **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

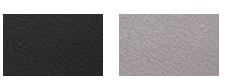
SHELL

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

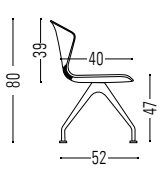
UPHOLSTERED SEAT

Fabric T Fabric M Fabric D Fabric V Fabric U

PU SEAT

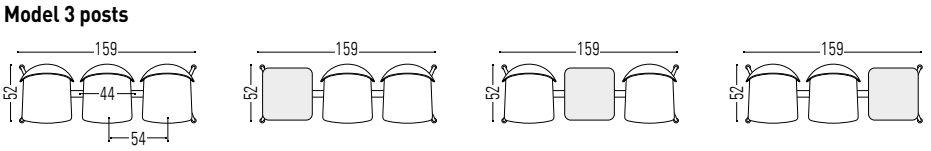


DIMENSIONS

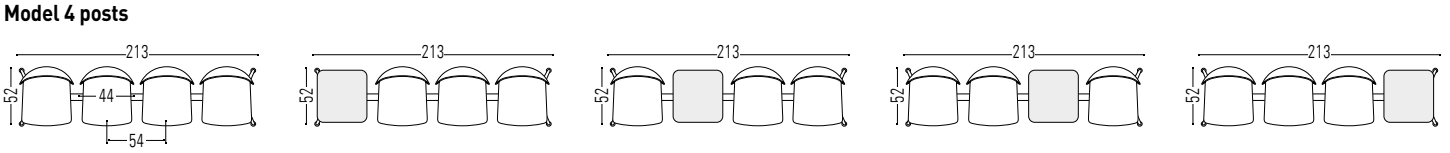


- Total Height: 800 mm
- Total Width: según modelos
- Total Depth: 520 mm
- Seat Height: 455 mm or 474 mm with cushioned seat
- Seat Width: 440 mm
- Seat Depth: 400 mm

Model 3 posts



Model 4 posts



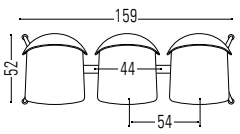
STRUCTURE FINISH

Aluminium injection legs

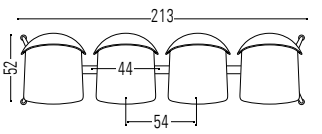
White Silver Black

Model with seats

Model 3 posts

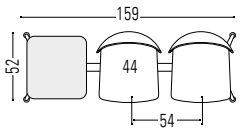


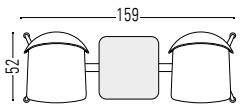
Model 4 posts

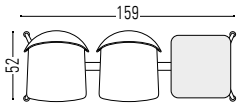


Model with seats with auxiliary table

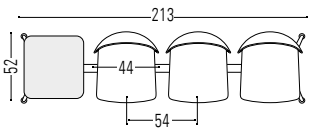
Model 3 posts

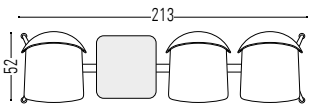


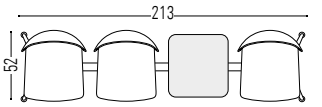


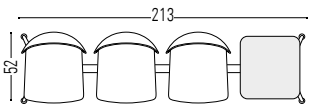


Model 4 posts









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).

FSC www.fsc.org FSC® C106678
The mark of responsable forestry

AENOR Ecodiseño ED-0011/2010
EN ISO 14006:2011
ECODESIGN Certificate

AENOR ER-0597/2001
UNE-EN ISO 9001:2008
ISO 9001 Certificate

AENOR GA-2003/0202
UNE-EN ISO 14001:2004
ISO 14001 Certificate

U.S. GREEN BUILDING COUNCIL LEED PLATINUM USGBC
ACTIU TECHNOLOGY PARK
LEED® PLATINUM certified by USGBC
Leadership in Energy & Environmental Design
LEED® Gold certified 2011 · LEED® Platinum certified 2017

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 (Only for projects)
-**UNE EN ISO 14006: 2019.** Environmental management system. Guidelines for incorporating ecodesign.