

**esPattio**

**TECHNICAL FEATURES**

**ABRIL**

By Patrick Norguet



## Armchairs



## Shell

The Abril family is made up of three shell models: with arms, without arms and stool. They are manufactured by injection in polypropylene (PP) and mineral-filled polypropylene depending on the model and are offered in a wide range of colours.

## Upholstered options

- **Seat pad:** for shells with and without arms, the seat area can optionally have a cover made of 0.4" inch thick foam with a density of 1.87 lb/ft<sup>3</sup> and upholstered in the chosen fabric. This placket is overlapped, stapled and screwed.
- **Upholstered front:** designed exclusively for shells with armrests, this option covers the entire front of the shell — including the seat, backrest and armrests — with an injection-moulded plastic piece covered with high-density foam. Thicknesses of 0.2" inch and 0.39" inch are combined with a density of 2.5 lb/ft<sup>3</sup>, and finally upholstered in the selected fabric. The design leaves the back of the shell visible, allowing for endless combinations between the colours of the plastic and the wide range of fabrics available.
- **Fully upholstered:** monocoque covered with 0.4" inch thick foam with a density of 2.49 lb/ft<sup>3</sup> and polyester fibre and upholstered in the chosen fabric.

## Structures in option

- **4 metal legs:** fixed 4-leg structure made of ø 0.6" inch and 0.08" inch thick steel tube plus two ø 0.7" inch and 0.08" inch thick welded crosspieces, coated with epoxy paint in a wide range of colours. The fixing to the shell is hidden by some shadow gray rubberized stops made by injection. These stops on the chair without arms function as stacking stops. In the upholstered seat pad option, these stops are replaced by a stacking tray made of polypropylene I have injected in two colors. Round tips finished in black with the option of felt for wooden floors. This structure is compatible with shells with and without arms. Structure stackable in 4 units on the ground for the frame without arms.
- **4 oak legs:** aluminium base screwed to the Abril frame with plastic threaded bolts. The wooden legs, with a unique varnish oak finish, are hand-bolted to this aluminium base. Floor support with optional plastic or felt pads. In versions with an exposed shell, the aluminium base is lacquered in the same colour as the plastic shell. For fully upholstered casings, the colour of the aluminium base is an option to be chosen by the customer.

- **Sled:** the base is made of Ø 0.43" inch solid steel rod, which is bent in such a way that the base supports are shaped like sledge runners, one on each side of the chair. The attachment to the shell is concealed by injection-moulded "Sombra Grey" rubber buffers, which act as stacking buffers in the chair without armrests. In the upholstered version, these buffers are replaced by a stacking tray in two-colour injected polypropylene. Base with 4 black polypropylene end caps, with the option of felt for wooden floors. Stackable base in 4 units on the floor for the shell without armrests.
- **Aluminium pyramid base:** 4-spoke swivel base in die-cast aluminium with conical shape ø27.6" inches and h: 12.13" inches with different finishes. This base is connected to the shell by means of a die-cast aluminium part painted with epoxy resin and a steel cone covered with a trim. Floor support with black polypropylene top, optionally with felt for wooden floors or with castors. The 2" inches diameter castors are all black for the hard castor option and light grey for the soft castor option.
- **5-spoke polyamide Star base:** diameter 27.2" inches. 5 trapezoidal arms with rounded corners. Available in white or black. The base is connected to the frame by means of a gas piston and an epoxy lacquered aluminium injection moulding. Height adjustment by means of handle. Floor support with 2.6" inches diameter double swivel castors. The black polyamide base can be fitted with hard or soft black castors. The white base can be fitted with white hard castors or light grey soft castors.
- **Pyramidal wooden base:** 4-spoke swivel structure in steel covered by a base in lacquered beech, oak or beech wood. The base is connected to the shell by means of an epoxy lacquered injection moulded aluminium part and a steel cone covered with a trim. Floor support with black polypropylene glide, with the option of felt for wooden floors.
- **Pyramidal base in solid oak wood:** 4-spoke solid oak base bolted to a central black lacquered steel core. The cone is inserted into this core and rests on an aluminium base, which in turn is screwed to the body.

## Packaging

100% recyclable with inks with no solvents.

## Certificate

Our products are designed, manufactured and distributed according to current regulations and organizational standards.

► [Information](#)

## 5-year warranty

► [Warranty terms and conditions](#)

## Maintenance and cleaning of products

esPattio provides recommendations to the user so that their products always look new and in excellent condition.

As a general rule, we recommend the use of environmentally friendly cleaning agents. Please follow the cleaning product manufacturer's instructions.

► [Information](#)

4 metal legs



Sled structure



4 spoke pyramidal aluminium legs



Pyramidal wooden legs





























High chair



Stool



Legs/Base	 lbs	 ft³		 lbs	 ft³		 lbs	 ft³		 lbs	 ft³		 lbs	 ft³		 lbs	 ft³		 lbs	 ft³	
4 metal legs	15 lbs	9.9 ft³	1	16 lbs	9.9 ft³	1	13.54 lb	9.53 ft³	1	18 lbs	131 ft³	1	19 lbs	131 ft³	1	14.84 lbs	10.95 ft3	1	13.76 lbs	10.95 ft3	1
Sled structure	15 lbs	9.9 ft³	1	16 lbs	9.9 ft³	1	13.54 lb	9.53 ft³	1	18 lbs	131 ft³	1	19 lbs	131 ft³	1	14.86 lbs	10.95 ft3	1	14.04 lbs	10.95 ft3	1
4 spoke pyramidal aluminium legs	35 lbs	10.6 ft³	1	36 lbs	10.6 ft³	1	21.54 lb	10.59 ft³	1	17 lbs	131 ft³	1	18 lbs	131 ft³	1	22.86 lbs	13.07 ft3	1	16.78 lbs	13.07 ft3	1
4 spoke pyramidal aluminium legs + casters	36 lbs	10.6 ft³	1	37 lbs	9.89 ft³	1	36.95 lb	9.89 ft³	1	18 lbs	131 ft³	1	19 lbs	131 ft³	1	23.52 lbs	13.07 ft3	1	17.41 lbs	13.07 ft3	1
Pyramidal wooden legs	14 lbs	10.6 ft³	1	15 lbs	10.6 ft³	1	17.35 lb	10.59 ft³	1	17 lbs	10.6 ft³	1	18 lbs	10.6 ft³	1	18.67 lbs	13.07 ft3	1	13.03 lbs	13.07 ft3	1
High chair H 25.6"	18 lbs	15.9 ft³	1	19 lbs	15.9 ft³	1	24.60 lb	15.89 ft³	1												
High chair H 29.5"	18 lbs	17.3 ft³	1	20 lbs	17.3 ft³	1	23.79 lb	17.30 ft³	1												
Stool H 25.6"	15 lbs	13 ft³	1																		
Stool H 29.5"	15 lbs	14.5 ft³	1																		
Linear metres				 0.5 yd			 1.2 yd						 0.5 yd			 0.9 yd			 1.7 yd		

Dimensions

in

5-spoke polyamide base



4 oak wood legs



Pyramidal base in solid oak wood






















High chair. 4 oak wood legs



Stool. 4 oak wood legs



Legs/Base	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>	<div><div>lbs</div><div></div><div></div></div>
5-spoke polyamide base	18.81 lb   13.06 ft³   1	20.20 lb   13.06 ft³   1	20.20 lb   13.06 ft³   1	26.00 lb   13.06 ft³   1	27.41 lb   13.06 ft³   1	27.40 lbs   13.07 ft3   1	26.01 lbs   13.07 ft3   1
4 oak wood legs	43.01 lb   13.06 ft³   1	44.39 lb   13.06 ft³   1	45.70 lb   13.06 ft³   1	44.98 lb   13.06 ft³   1	46.34 lb   13.06 ft³   1	47.24 lbs   13.07 ft3   1	45 lbs   13.07 ft3   1
Pyramidal base in solid oak wood	15.21 lb   13.06 ft³   1	16.57 lb   13.06 ft³   1	19.88 lb   13.06 ft³   1	23.55 lb   13.06 ft³   1	24.91 lb   13.06 ft³   1	26.46 lbs   13.07 ft3   1	23.55 lbs   13.07 ft3   1
High chair H25.6". 4 oak wood legs	26.19 lb   16.59 ft³   1	27.56 lb   16.59 ft³   1	26.25 lb   16.59 ft³   1				
High chair H29.5". 4 oak wood legs	27.07 lb   16.59 ft³   1	28.44 lb   16.59 ft³   1	27.75 lb   16.59 ft³   1				
Stool H25.6". 4 oak wood legs	22.95 lb   16.59 ft³   1						
Stool H29.5". 4 oak wood legs	23.83 lb   16.59 ft³   1						
Metros lineales		<div><div></div>0.5 yd</div>	<div><div></div>1.2 yd</div>		<div><div></div>0.5 yd</div>	<div><div></div>0.9 yd</div>	<div><div></div>1.7 yd</div>

## Life cycle analysis



PAB00

Raw Materials	lbs	%
<b>Steel</b>	<b>6.78</b>	<b>50.78</b>
<b>Plastics</b>	<b>6.43</b>	<b>48.26</b>

**% Recycled Mat.= 51.87%**

**% Recyclable Mat.= 90.12%**

## Ecodesign

Results reached during the life cycle stages

### Materials

- Steel: 15%-99% recycled material.
- Wood: 70% of the wood material is recycled, has PEFC/FSC and complies within the E1 standard.
- Plastic: 30%-40% recycled material.
- Podwer painting without COV emissions.
- Staff material without HCFC and certified by Okotext.
- Upholsteries without COV emissions and certified by Okotext.
- Packings: 100% recyclable with inks with no solvents..

### Production

- Raw materials use optimization. Board, upholstery and steel tubes cut.
- Renewable energies use, reducing the CO<sup>2</sup> emissions (Photovoltaic pannels).
- Energy saving measures in all production process.
- COV global emission reduction of the production processes by 70%.
- Podwer painting recovery of 93% of the non deposited painting.
- Glue removal from the upholstery.
- The facilities have an internal sewage for liquid waste.
- Green points at the factory.
- 100% waste recycling at production process and dangerous waste special treatment.

### Transport

- Cardboard use optimization of the packings.
- Cardboard and packing materials use reduction.
- Flat packings and small bulks to optimize the space.
- Solid waste compacter which reduces transport and emissions.
- Light volumes and weights.
- Transport fleet renewal reducing by 28% the fuel consumption.
- Suppliers area reduction. Local market power and less pollution at transport.

### Use

- Easy maintenance and cleaning without solvents.
- esPattio guarantee.
- The highest quality for materials to provide a 10 year average life of the product.
- Useful life optimization of the product due to a standardized and modular design.
- The boards with no E1 particle emission.

### End life

- Easy unpacking for the recyclability or compound reuse.
- Piece standarization for the use.
- Recycled materials used for products (% recyclability):
- Aluminium is 100% recyclable. Steel is 100% recyclable. Wood is 100% recyclable. Plastics are from 70 to 100% recyclable.
- With no air or water pollution while removing waste.
- Returnable, recyclable and reusable packing.

## Maintenance and cleaning guide

Lines for a correct cleaning and maintenance considering the different materials:

### Fabricks

- ① Vacuum often.
- ② Rub the dirty spot with a wet cloth with PH neutral soap.  
Test first on a hidden spot.
- ③ Dry foam for carpets can be alternatively used.

### Metal pieces

- ① Rub the dirty spot with a wet cloth with PH neutral soap.  
Test first on a hidden spot.
- ② Polished aluminum parts can be restored with polish on a dry cotton cloth to restore their initial gloss conditions.

### Wooden - melamine pieces

- ① Rub the dirty spot with a wet cloth with PH neutral soap.  
Test first on a hidden spot.
- ② Do not use abrasive products under any circumstances.

### Plastic pieces

- ① Rub the dirty spot with a wet cloth with PH neutral soap.  
Test first on a hidden spot.
- ② Do not use abrasive products under any circumstances.