Forma 5

TECHNICAL FEATURES
F25

For anti-electrostatic solutions, please ask us the conditions.

Cable management
Sliding top
Top access
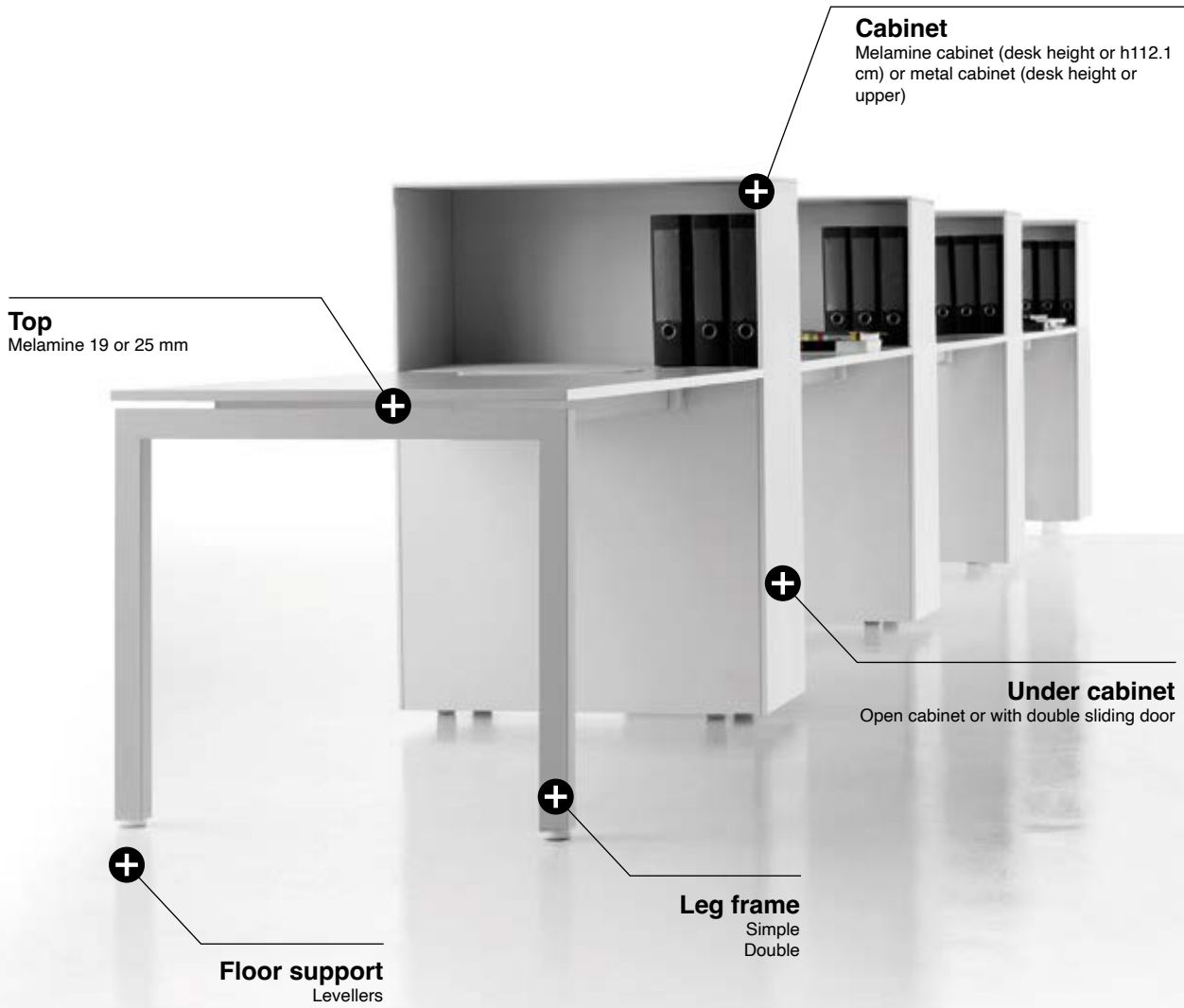Grommet

Top
Melamine 19 or 25 mm

Beam
Double structural

Floor support
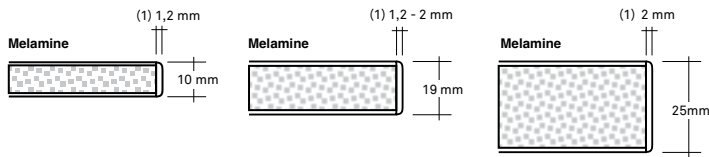Levellers or optional height adjustable levellers

Leg frame
Simple
Double
Shared leg frames

DESK + CABINET FOR SYSTEMS

Cabinet
Melamine cabinet (desk height or h112.1 cm) or metal cabinet (desk height or upper)

Top
Melamine 19 or 25 mm

Under cabinet
Open cabinet or with double sliding door

Leg frame
Simple
Double

Floor support
Levellers

BOARD

Melamine (1) 1,2 mm 10 mm

Melamine (1) 1,2 - 2 mm 19 mm

Melamine (1) 2 mm 25mm

EDGE WIDTH	10 mm BOARD	19 mm BOARD	25 mm BOARD
1,2 mm (1)	Pedestal top Screen Cabinet door	Drawer front Cabinet top, lateral, floor and shelf	Floor
2 mm (1)		Desk top Screen Counter desk	Desk

DESK TOPS

Melamine: 19 or 25 mm thick melamine particle board. 2 mm thick thermofused edges around the perimeter. Wide range of finishes. The quality requirements for the board are made according to the UNE-EN 312 legal terms, corresponding to P2 board. The average 25 mm thick board density is 595 kg/m³. The average 19 mm thick board density is 630 kg/m³.

LEG FRAMES

50 x 50 x 2 mm square steel tubes. 100 micron epoxi powder paint. Leg meet cross bar angle joint. Floor support with levellers to keep the desk surface straight.

This program includes three types of leg frames: simple (for single desks), double (for bench desks) and add-on leg frames (for bench desks). The last type provides longitudinal growth for add-on desks and, as it is shorter than the bench side where it is installed, it facilitates the distribution of workstations.

Optional leg frame with height adjustment for single desks (650 - 850 mm). 100 micron layer epoxy paint.
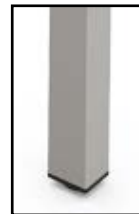
DETAILS

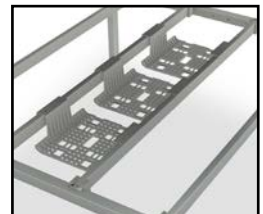Multi-composition with cabinets attached to the work-station.

Sliding top. The desk grows to 5 mm.

Height adjustment (650-850 mm).

Leveller

Cable wire tray.

DESK SCREENS

MELAMINE DESK SCREEN
19 mm thick particle board with 2 mm thermofused edges around the perimeter. Fixed to the framework with specific fittings.

GLASS DESK SCREEN
6 mm (3 + 3 mm) laminated glass with inner butyral sheet. Polished edges and rounded corners. Fixed to the framework by specific fittings.

UPHOLSTERED DESK SCREEN
16 mm thick particle board base with both sides upholstered, fixed to the framework by specific fittings. Sewings at laterals.

UPHOLSTERED ACOUSTIC DESK SCREEN
16 mm thick particleboard base covered with a 5 mm thick foam cover with 60 kg/m^3 density and upholstered on both sides. Double perimeter seam. Fixing to the structure of the desk by specific fittings.

FABRIC METERS

	Desks 180 width	Desks 160 width	Desks 140 width	Desks 120 width
Front screen	1,9 m	1,7 m	1,5 m	1,3 m
Uneven screen	1,3 m	1,3 m	1,0 m	-

	Desks 162 depth	Desks 80 depth
Side screen	1,8 m	1,00 m

Fabric meters for 1 unit. For other units, consult if possible the fabric optimization.

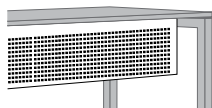## MODESTY PANELS

MELAMINE MODESTY PANELS
19 mm thick particles board with 1,2 mm thick thermofused edges in its whole perimeter fixed to the framework with specific fittings hidden under the desk.
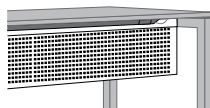
METAL MODESTY PANELS
Drilled steel modesty panel with powder epoxy paint finished 220ºC polymerized (1,5 mm thick) and engraved texture. Hanging from the front beam. Depending on the program and the modesty panel position in relation with the cable management, we have references for:
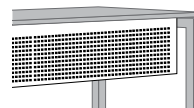
⚠ COMPATIBILITIES WITH CABLE MANAGEMENT

Modesty panels non compatibles with cable management. Hidden beam.

Modesty panels compatibles with cable management. Trays and beams from the desk front. Modesty panel is placed behind them.

Modesty panels compatibles with cable management. Trays and beams from the desk front. Modesty panel is placed in front of them.

CABLE MANAGEMENT

ACCESSORIES FOR DESK SURFACE

SQUARE DESK GROMMETS
ABS tap of 94 x 94 mm and polished finish. Polypropylene piece Ø 80 mm inner. Height 25 mm (2 mm over top).

ALUMINIUM TOP ACCESS
Aluminium part overall dimensions 367 x 127 x 33 mm. Extruded tap aluminium 348 x 89 mm and 4 mm average thickness. Aluminium injection inner piece average thickness 2.5 mm.

SLIDING TOP KIT
Set of five plastic POM and polyamide pieces that allows slide the desk top over the structure to access to the electrification located under the desk top. Ordering 1 sliding top kit for single desk, 2 kits for bench desk, one for each desk top.

POLYAMIDE TOP ACCESS
Polyamide part outer dimensions are 245 mm x 125 mm x h: 25 mm. The inner has a gap of 225mm x 90mm for the cable management. Set of two pieces made of polyamide with 10% glass fiber and 20% microspheres.

**INTEGRATED ELECTRIFICATION ATOM**
Integrated electrification ATOM in the top formed by: 1 Black power outlet and 2 USB charging connectors 5V/2A with power from the electrical outlet. Black polycarbonate trim. Installation in 60mm hole.

HORIZONTAL CABLE DRIVING

METAL TRANSVERSALE CABLE TRAY
1,5 mm thick blank folded sheet tray. Dimensions 463 x 136 x 124 mm. Folds for fixing between beams.
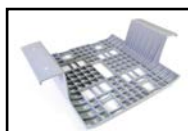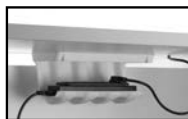
POLYPROPYLENE WIRE CABLE TRAY
Variable thick polypropylene tray. Overall dimensions 472 x 360 x 114 mm. Fixation to beams by folds in the mold. It is possible to screw it to the top.
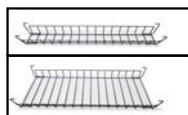
REMOVABLE METAL TRANSVERSALE CABLE
1,2 mm thick folded sheet metal tray, with final piece and fastening polyamide clamp to beam. Sheet dimensions: 920/720 x 121.9 x 98.3 mm. Overall dimensions: 1000/800 x 195.4 x 133.4 mm.

POLYPROPYLENE CABLE TRAY
Variable thick polypropylene tray. Overall dimensions 365 x 165 x 150 mm. Fixation to top directly by screws.

REMOVABLE WIRE CABLE TRAYS
Electrowelded wire tray Ø 5 mm rod. Fix to the tap by metal plates.

METALLIC SUPPORT
1 mm thick folded metal tray and dimensions 734 x 67 x 122 mm. Hanging from the beam or modesty panel.

REMOVABLE METAL DOUBLE CABLE TRAY
1,2 mm thick folded sheet tray. Dimensions 1200/1000 x 338 mm. Polyamide pieces for subjection to beam. Overall dimensions of the set: 1200/1000 x 489.3 x 142.5 mm.

METAL CABLE TRAY TO SERVICE POWER
Metal cable tray to service power outlet, made of steel sheet, 1,2 mm thickness and 300 mm in length. Possibility of setting a power block. Fixing in the desk top with wooden screws. outlet

REMOVABLE CENTRAL TRAY
Folded sheet metal tray with a thickness of 1.2 mm and dimensions of 520x450 mm. Polyamide parts for fastening to the lid. Overall dimensions of the set 520x450 x 127.5 mm.
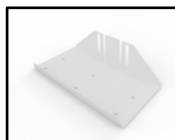
ELECTRIFICATION CONCATENATION SHELF
Folded sheet metal tray with a thickness of 1.2 mm and dimensions of 255x140 mm. Fixed to the crossbar. Overall dimensions of the set 255x140x50 mm.
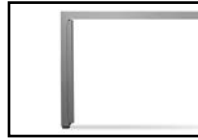
CONFIGURATIONS AND DIMENSIONS

VERTICAL CABLE DRIVING

METAL CABLE PILLAR
1,5 mm thick metal pillar. Section 71 x 70 mm, base 160 x 160 mm. Overall height 572.5 mm.

F25, ZAMA AND ZAMA NEXT CABLE MANAGEMENT PILLAR
1 mm thick folded sheet metal column in "C" shape. 51 x 41,5 mm and 584 mm height. Fixation to leg by pressure.

CABLE SPINE FOR ELECTRIFICATION
Spiral thermoplastic material, anchored to the top by screws and to the ground with a pedestal base. Silver gray finish.

ADDITIONAL ACCESSORIES

ADJUSTABLE CPU CABINET
Support folded metal sheet, 2 mm thick. Adjustable height and width to suit different dimensions. Screwed to desk top. Flexible polyurethane protections to prevent vibration and to ensure an optimal fit.

4 WAY POWER BLOCK
16A 250V sockets for 3 x 1.5 mm^2 power cable.

3 WAY POWER BLOCK WITH 2X RJ45 DATA
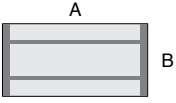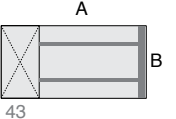16A 250V sockets for 3 x 1.5 mm^2 power cable.

POWER CABLE AND EXTENSION CABLE
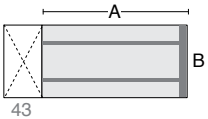3 x 1,5 mm^2 cable 250V 16A with grounding.

CONECTION WIELAND (4 A 1)
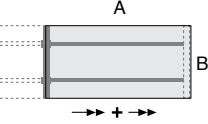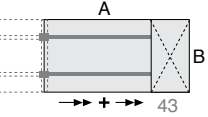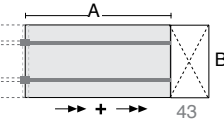Electrical connection elements to join the wiring of 3 users. Composed of Extension cable H05VV-F 3G1.5 (0.2m) + Quick connector shunt.

F25 - DESKS CLÁSSIC

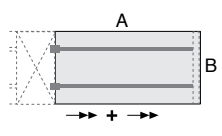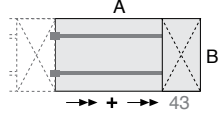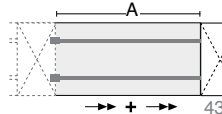|			
	RECTANGULAR DESK	A x B	180 x 80 162 x 80 160 x 80 140 x 80 120 x 80 180 x 67 160 x 67 140 x 67 136,4 x 67 120 x 67
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS	A x B	180 x 80 160 x 80 140 x 80
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS HEIGHT DESK	A x B	180 x 80 160 x 80 140 x 80 120 x 80

	TOP 19 mm	TOP 25 mm
	h: 74 cm	h: 74,6 cm

F25 - ADD-ON DESKS, LEG FRAME LINKING

	RECTANGULAR DESK	A x B	180 x 80 160 x 80 140 x 80 120 x 80 180 x 67 160 x 67 140 x 67 120 x 67
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS	A x B	180 x 80 160 x 80 140 x 80
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS HEIGHT DESK	A x B	180 x 80 160 x 80 140 x 80 120 x 80

	TOP 19 mm	TOP 25 mm
	h: 74 cm	h: 74,6 cm

CONFIGURATIONS AND DIMENSIONS

F25 - ADD-ON DESKS, PEDESTAL LINKING

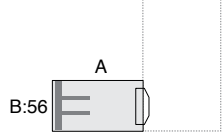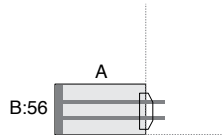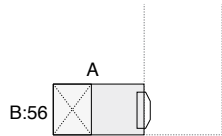|			
	RECTANGULAR DESK	A x B	180 x 80 160 x 80 140 x 80 120 x 80 180 x 80 160 x 80 140 x 80 120 x 80
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS	A x B	180 x 80 160 x 80 140 x 80
	RECTANGULAR DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS HEIGHT DESK	A x B	180 x 80 160 x 80 140 x 80 120 x 80

	TOP 19 mm	TOP 25 mm
	h: 74 cm	h: 74,6 cm

F25 - RETURN DESKS

	STANDARD RETURN DESK AVAILABLE FOR MELAMINE DESK AND BENCH DESK	A x B	100 x 56 80 x 56
	RETURN DESK WITH BEAMS SUPPORTED BY THE FRAMEWORK AVAILABLE FOR MELAMINE DESK	A x B	100 x 56 80 x 56
	RETURN DESK - SUPPORT PEDESTAL AVAILABLE FOR MELAMINE DESK AND BENCH DESK	A x B	100 x 56 80 x 56

	TOP 19 mm	TOP 25 mm
	h: 74 cm	h: 74,6 cm

CONFIGURATIONS AND DIMENSIONS

F25 - BENCH DESKS

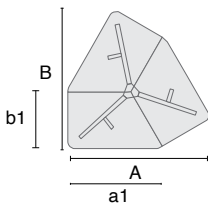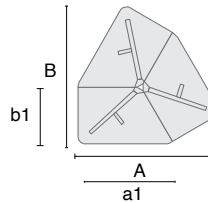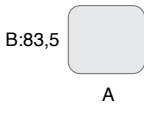|			
	BENCH DESK	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80 120 x 162,4/80 180 x 136,4/67 160 x 136,4/67 140 x 136,4/67 120 x 136,4/67
	BENCH DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80
	BENCH DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS HEIGHT DESK	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80 120 x 162,4/80
	ADD-ON BENCH DESK - LEG FRAMES SUPPORT	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80 120 x 162,4/80 180 x 136,4/67 160 x 136,4/67 140 x 136,4/67 120 x 136,4/67
	ADD-ON BENCH DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80
	ADD-ON BENCH DESK - SUPPORT 43 WIDTH PEDESTAL OR CABINET FOR SYSTEMS HEIGHT DESK	A x B/b1	180 x 162,4/80 160 x 162,4/80 140 x 162,4/80 120 x 162,4/80

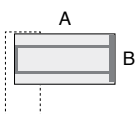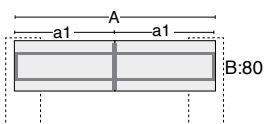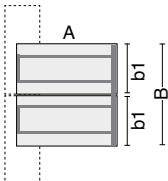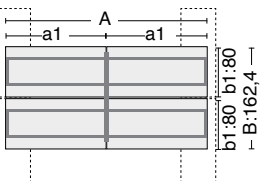TOP 19 mm   TOP 25 mm

h: 74 cm   h: 74,6 cm

CONFIGURATIONS AND DIMENSIONS

F25 - 3 WORKSTATIONS

B, b1, A, a1 (diagram)	WORKSTATIONS WITHOUT CENTRAL GAP FOR CABLE MANAGEMENT	A/a1 x B/b1	190/120 x 188/83,5 208/140 x 202/83,5
B, b1, A, a1 (diagram)	WORKSTATIONS WITH CENTRAL GAP FOR CABLE MANAGEMENT	A/a1 x B/b1	190/120 x 188/83,5 208/140 x 202/83,5
B:83,5, A (diagram)	DESKTOP LINKS BETWEEN 3 WORKSTATIONS	A x B	60 x 83,5 90 x 83,5

TOP 25 mm
h: 74,6 cm

F25 - CONFIGURATIONS WITH AXIS CABINETS

A, B (diagram)	RECTANGULAR DESK + SINGLE (180/160) CABINET	A x B	180 x 80 160 x 80 180 x 67 160 x 67
A, a1, a1, B:80 (diagram)	RECTANGULAR DESK + DOUBLE (180/160) CABINETS	A/a1 x B	360/180 x 80 320/160 x 80
A, b1, b1, B (diagram)	BENCH DESK + SINGLE (180/160) CABINET	A x B/b1	180 x 162,4/80 160 x 162,4/80 180 x 136,4/67 160 x 136,4/67
A, a1, a1, b1:80 b1:80 B:162,4 (diagram)	BENCH DESK + DOUBLE (180/160) CABINETS	A/a1 x B/b1	360/180 x 162,4/80 320/160 x 162,4/80

TOP 25 mm
h: 74,6 cm
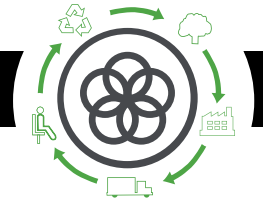
Life Cycle Analysis
F25 Program

RAW MATERIALS (REF. FF002)		
Raw Material	Kg	%
Steel	17,63 Kg	43%
Plastic	0,87 Kg	2%
Wood	22,50 Kg	55%

% Recycled material= 57%
% Recyclable materials= 99%

Ecodesign

Results reached during the life cycle stages

MATERIALS

Wood
70% of the wood material is recycled, has PEFC/FSC and complies within the E1 standard.

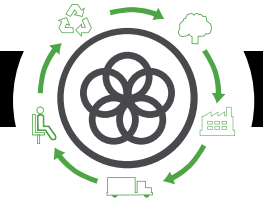**Steel**
15%-99% recycled material.

Plastic
30%-40% recycled material.

Paintings
Podwer painting without COV emissions

Packings
100% recyclable with inks with no solvents.

PRODUCTION

Raw materials use optimization
Board, upholstery and steel tubes cut.

Renewable energies use
reducing the CO2 emissions. (Photovoltaic pannels)

Energy saving measures
in all production process

COV global emission reduction
of the production processes by 70%.

Podwer painting
ecovery 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 ans dangerous waste special treatment.

TRANSPORT

Cardboard use opmitization
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.

Forma 5 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 standarized 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):
Wood is 100% recyclable.
Steel is 100% recyclable.

With no air or water pollution
while removing waste.

Returnable, recyclable and reusable packing

Product recyclability 99%

MAINTENANCE AND CLEANING GUIDE

MELAMINE PIECES

Rub the dirty spots with a wet cloth with PH neutral soap.

PLASTIC PIECES

Rub the dirty spots with a wet cloth with PH neutral soap.

METAL PIECES

❶ Rub the dirty areas with a wet cloth with PH neutral soap.

❷ Polished aluminium pieces can have their polish bak by covering and rubbing them with a dry cottom cloth.

GLASS ELEMENTS

Rub the dirty spots with a wet cloth with PH neutral soap.

Do not use abrasive products in any case.

LEGAL TERMS

CERTIFICATES

Forma 5 certifies that the F25 program has passed all tests provided by our intern Quality Department, as well as the Technological Research Center (TECNALIA) with "satisfactory" results:

EN 15352: "Furniture - Strength, durability and safety - Requirements for non-domestic tables".
UNE EN 527-1-2001 norm. Office furniture. Desks. Part 1: Dimensions.
UNE EN 527-2-2003 norm. Office furniture. Desks. Part 2: Security mechanism requirements.
UNE EN 527-3-2003 norm. Office furniture. Desks. Part 3: Testing methods to determine the stability and mechanic resistence of the structure.

Developed by TANDEM COMPANY