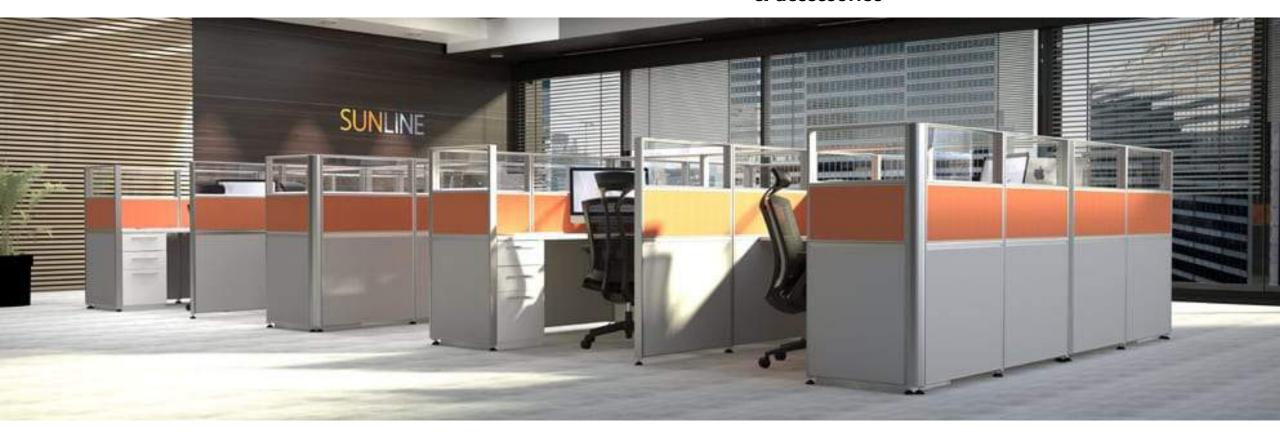


SLIDING CUBICLE SYSTEM & accessories



COMPLETE SPECIFICATION GUIDE

Sunline is a Registered Trademark of Sunline Office LLC



3		Sunline Factory
4		Connector Posts
5-9		Wall Panels
10-12		Work Surfaces
13-27		Electric/Power & Data Detail
28-36		Storage
37-40		Electric Height Adjustable Desk
41-42		Monitor Arm & Keyboard Tray
43-45		Ergo Chair
46-48	••••	Environmental Information & Certifications
49		Sunline Sliding Cubicle Features
50-51		Frequently Asked Questions
52-55		Sunline Sliding Cubicle Images

THE SUNLINE FACTORY



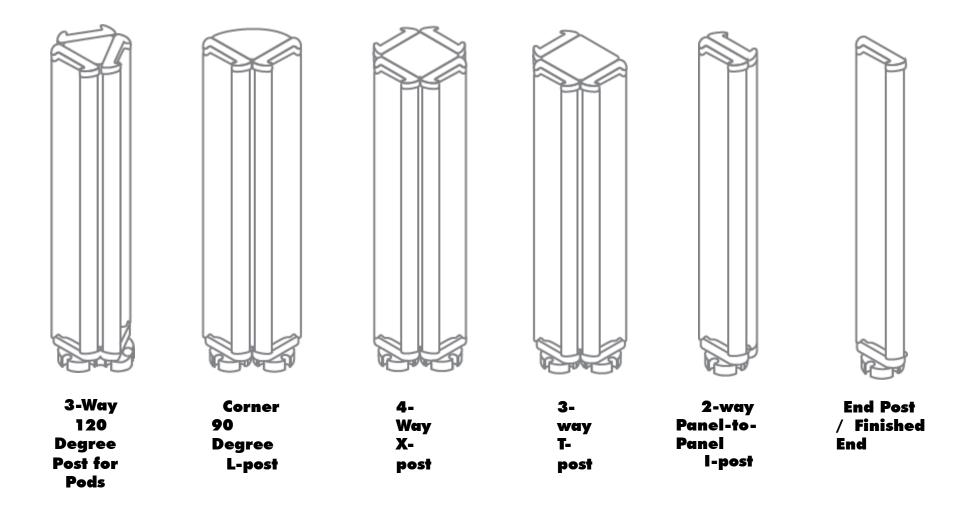
4 million square feet

Sunline is a registered trademark of Arnold's Office Furniture

ANODIZED ALUMINUM CONNECTOR POSTS



Available in many different heights – most commonly 1050mm, 1350mm, 1650mm, 2100mm



4



PANEL FABRIC COLOR OPTIONS

IN STOCK



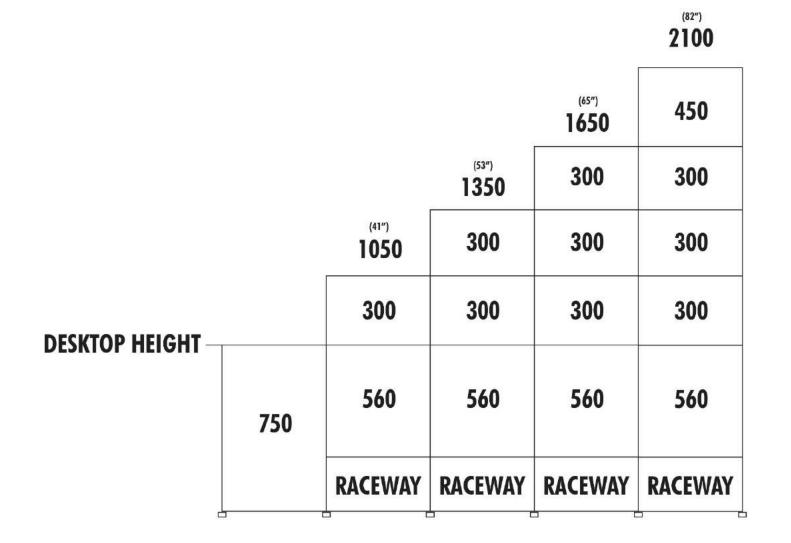
CUSTOM ORDER





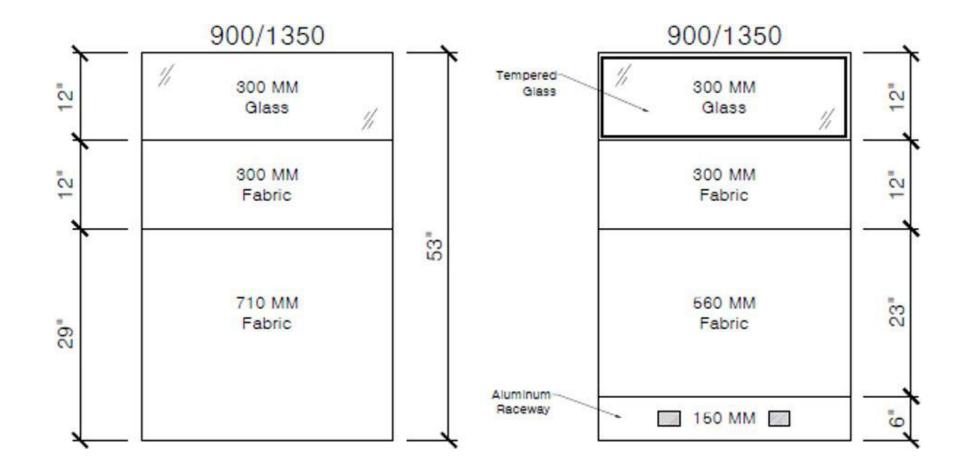
WALL PANEL SIZES

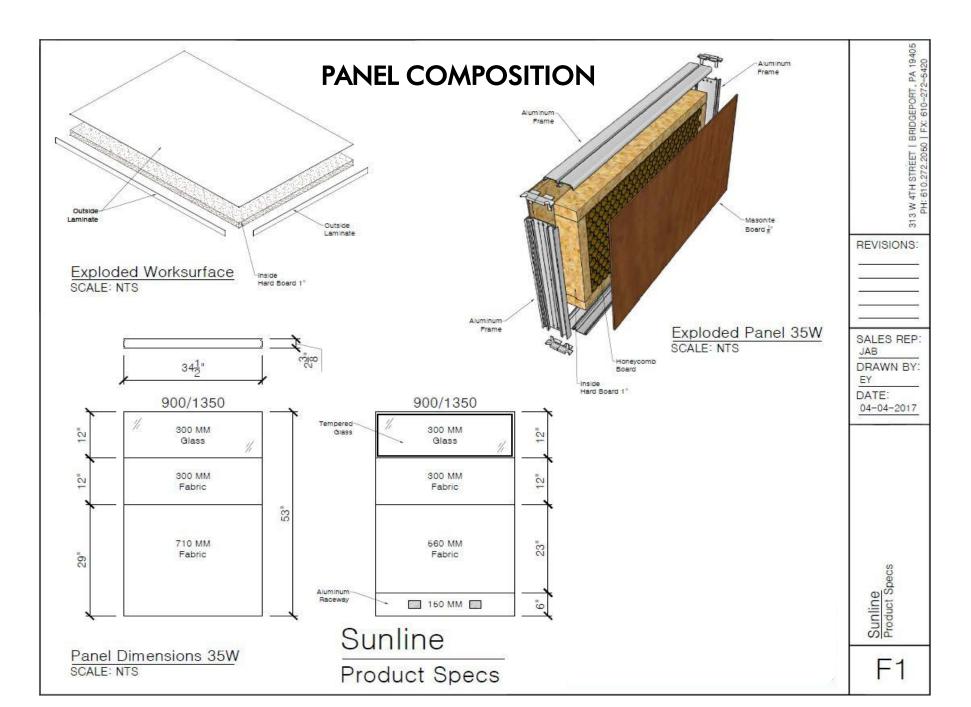
Available most commonly in 2', 3', 4' wide sizes





WALL PANEL SIZES cont.

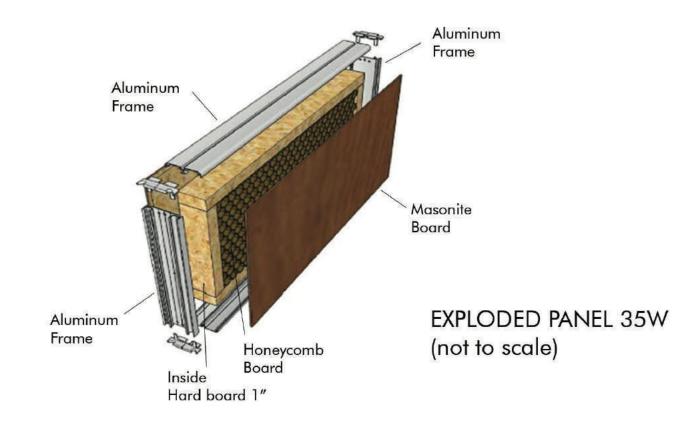




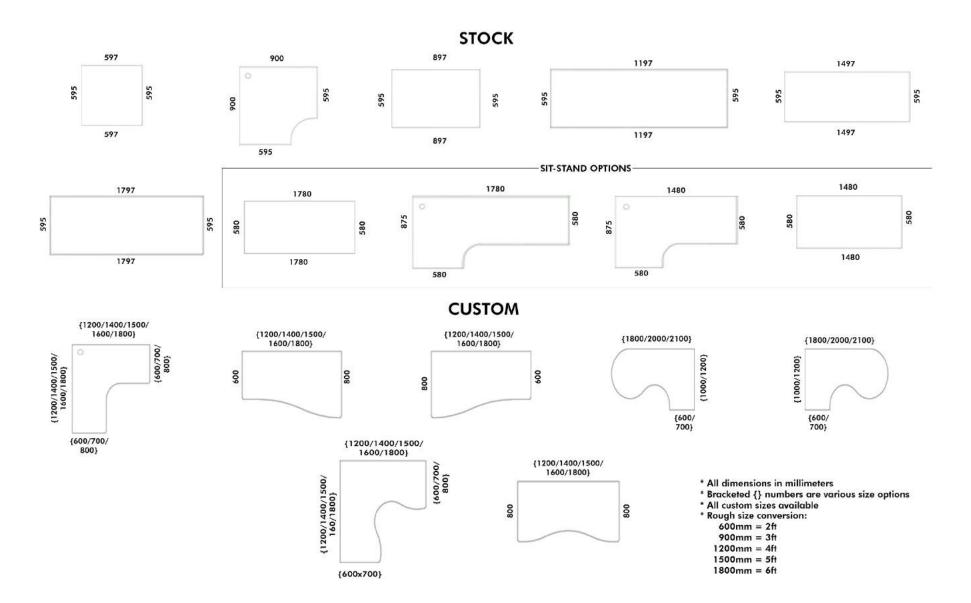
SUN LINE



PANEL COMPOSITION cont.

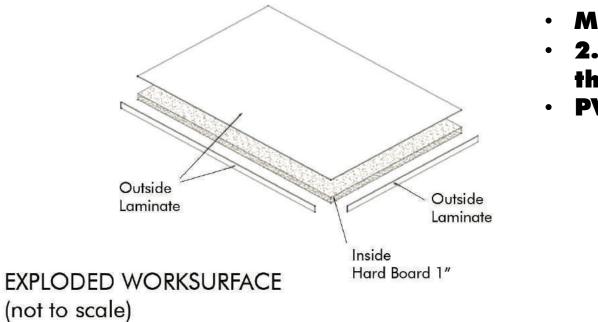


WORK SURFACE OPTIONS





WORK SURFACE COMPOSITION



- Melamine
- 2.75mm thick
- PVC Edge

SUNLINE WORK SURFACE FINISH OPTIONS



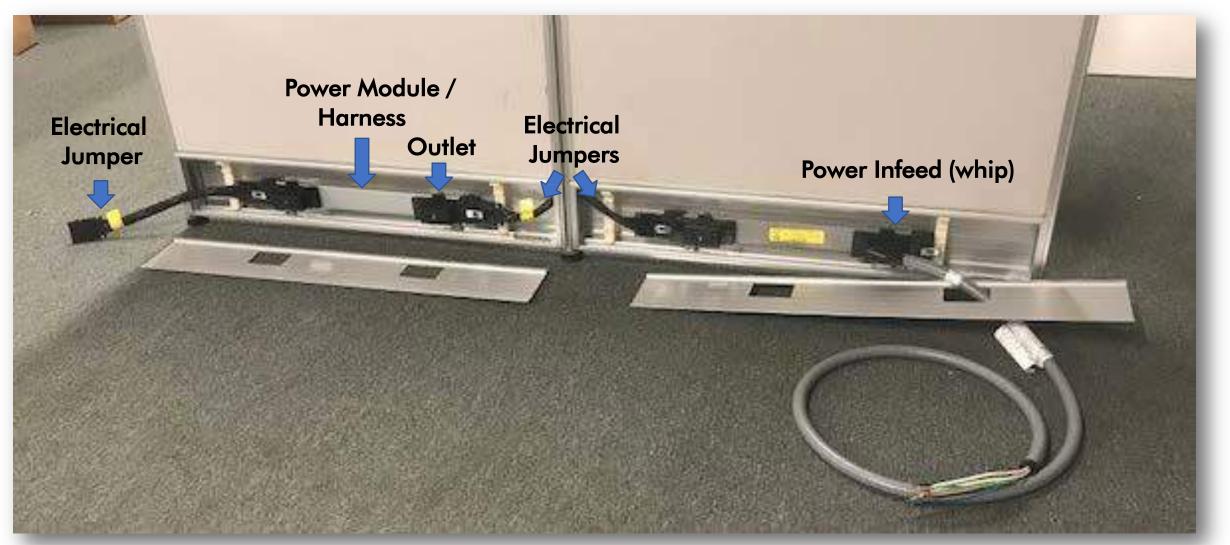
12

ELECTRIC SPECIFICATIONS

Typical Electrical Raceway (covered)

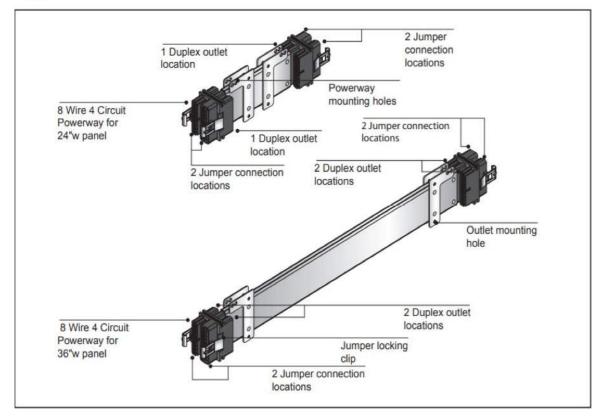


Typical Electrical Raceway (uncovered)



Power Module / Harness

Powerways provide electrical distribution and access for duplex outlets back to back. 24" wide panels can accept only one duplex outlet per side, two total back to back. All other panels can accept two per side, four total back to back. Powerways "grow" in length with panels of greater width, making panel to panel connections a "standard" configuration and allowing for "pass through" connections. Each powerway has locations for up to four jumpers, two at each end. Powerways are included when ordering powered panels.

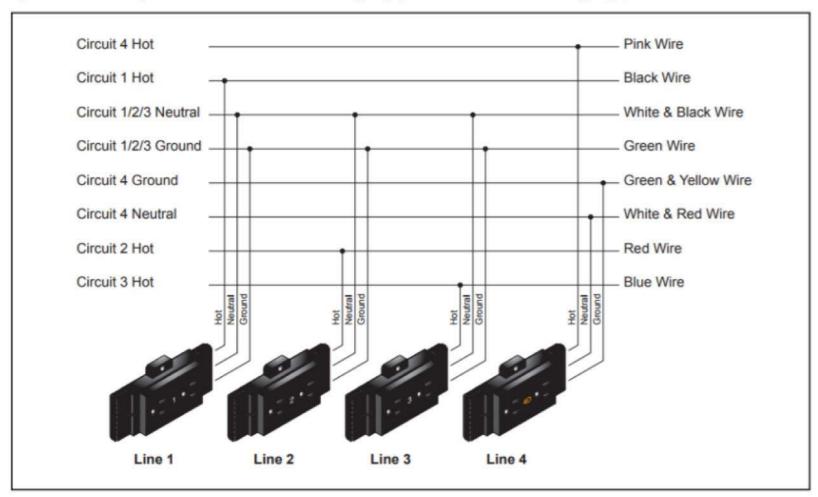


Duplex Outlets are available designated circuits 1 thru 4. Each duplex outlet contains two single receptacles (places to plug into) of the same circuit and are specified separately from powerways. All duplex outlets have black faces. The lettering on outlets for Circuit 1, 2 and 3 is white. The lettering on outlets for Circuit 4 is orange. Outlets are screw mounted to powerway. Duplex outlets are standard 15 amp outlets.

Outlets / Circuits

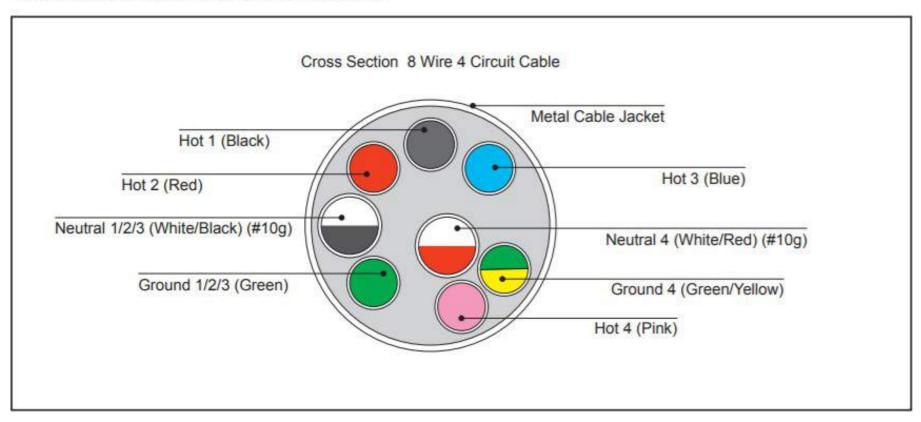


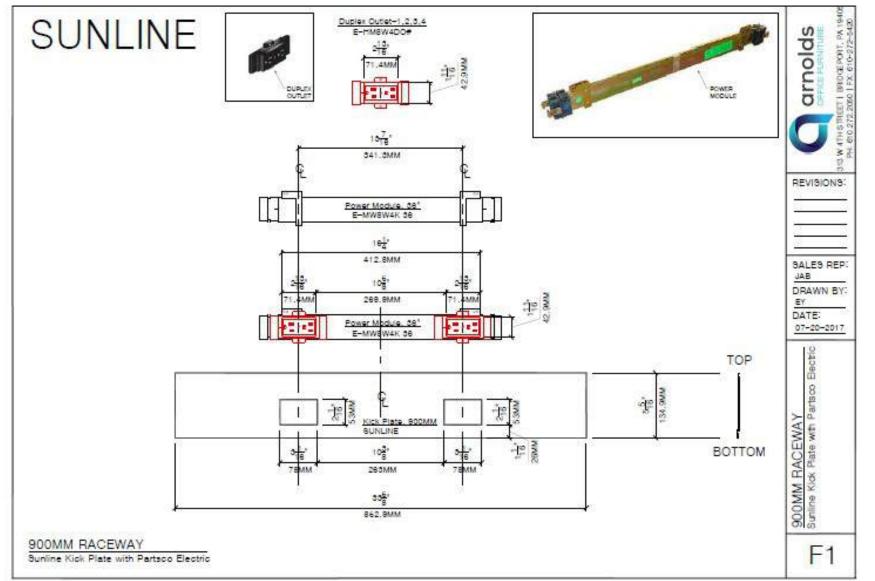
Sunline 8 Wire 4 Circuit electrical system contains four circuits. Each circuit is rated at 15 amps/120 volts maximum. Circuit 1, Circuit 2 and Circuit 3 are served by a system neutral and an equipment ground. Circuit 4 is dedicated and is served by its own neutral and ground. Circuit and ground conductors are #12 A.G.W. (gauge). All neutrals are #10 A.G.W. (gauge).



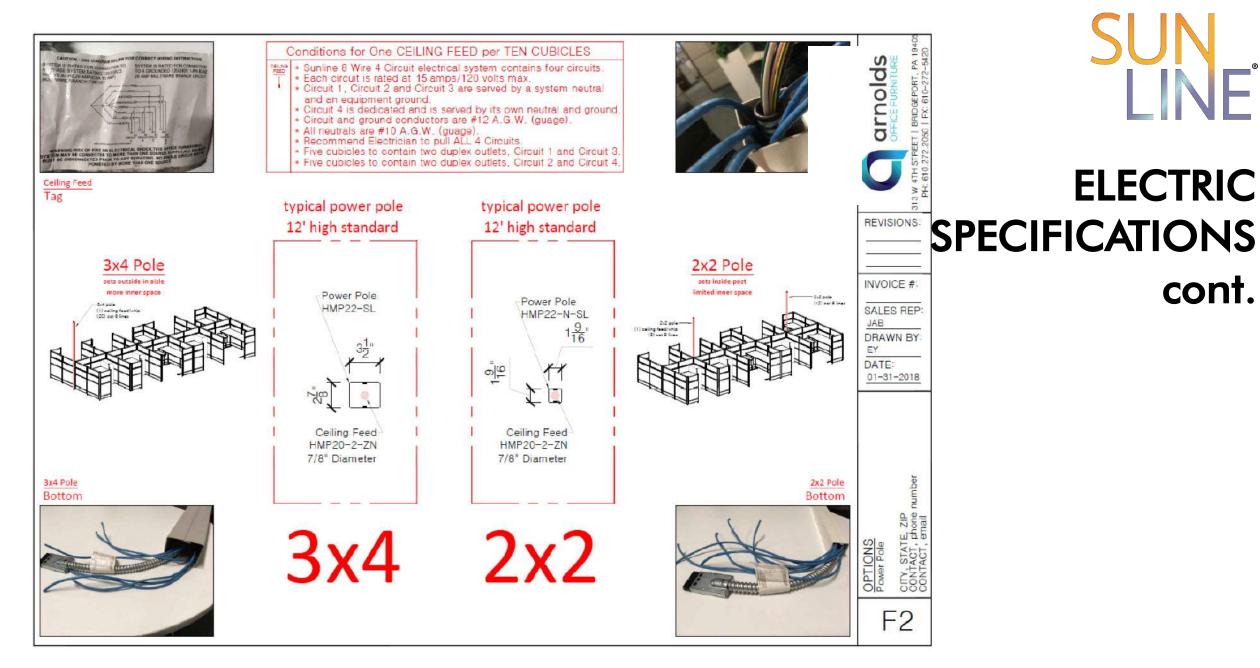
Wiring Anatomy for Jumpers and Infeeds

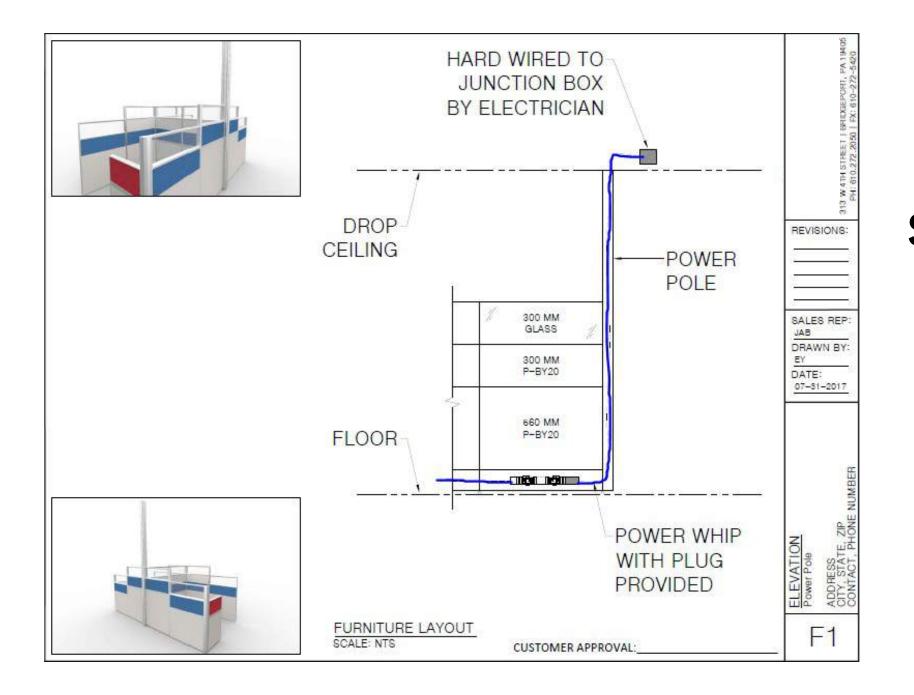
Shown below is cross section of metal cable used for 8 Wire 4 Circuit jumpers and in-feeds. Circuit and ground conductors are #12 A.G.W. (gauge). All neutrals are #10 A.G.W. (gauge).











JUMPERS / PASS THROUGH JUMPERS

Typically ranging from 44" ("24") to 59" ("36E") long (although some applications call for up to 92" long - "72"), pass through jumpers are connect two power modules by completely passing through an entire empty raceway from what power module to the next.

The first number in the sizing is because 24, 36, 48, 60, 72 indicate the total size panels they are to jump through assuming I-posts (panel-to-panel connector). If "extended" (E), 3" are added because these are meant to pass through a 3-way or 4-way.

- EL-J-24 24" (24) = 44" long (1118mm) used through 24" raceway when connector is a panel-to-panel (I-post)
- EL-J-24E 27" (24E) = 47" long (1194mm) used through 24" raceway when one of the connectors is a 3-way (T-post) or 4-way (X-post)
- EL-J-36 36" (36) = 56" long (1422mm) used through 36" raceway when connector is a panel-to-panel (I-post) or 2-way (L-post/90)
- EL-J-36E 39" (36E) = 59" long (1499mm) used through 36" raceway when one connector is a 3-way or 4-way
- EL-J-48 48" (48) = 68" long (1727mm) used through 48" raceway when connector is a panel-to-panel
- EL-J-48E 51" (48E) = 71" long (1803mm) used through 48" raceway when connector is either a 3-way or 4-way
- EL-J-60 60" (60) = 80" long (2032mm) used through 36" raceway AND 24" raceway when both connectors are panel-to-panel
- EL-J-60E 63" (60E) = 83" long (2108mm) used through 36" raceway AND 24" raceway when one connector is a panel-to-panel connector and the other is a 3-way or 4-way
- EL-J-72 72" (72) = 92" long (2337mm) used through two 36" raceways when both connectors are panel-to-panel connectors
- EL-J-72E 75" (72E) = 95" long (2413mm) used through two 36" raceways when one connector is a panel-to-panel connector and the other is a 3-way or 4-way





FESTOONS / CONNECTORS

Ranging from 18" long to 23" long, these connectors are used to continue the track of the power from one power module to another power module through a post/connector

EL-18 - 18.25" - used through panel to panel posts and around 2-ways EL-21 - 21" - used through and around 3-ways and 4-ways EL-22 - 22" - used through and around 3-ways and 4-ways EL-21 - 21.5" - used through and around 3-ways and 4-ways EL-19 - 19.42" - used through panel to panel posts, and around 2-ways EL-23 - 23" - used around 3-ways and 4-ways

** If necessary, must order PC-21 (PartsCo) to go through 3-ways and 4-ways

BASE INFEED

Also called wall infeed or power whip, base infeeds are connected by an electrician to a main electric line in the wall or floor, and into a power module that's mounted to a raceway, which begins the electric current all around raceways in the cubicle walls as long as they're connected through festoons/connectors, pass through jumpers, and/or other power modules. To be safe, one base infeed should power up to 8 cubicles at once.

CEILING INFEED

Ceiling infeeds are connected by an electrician to the main electric line in the ceiling, down through a power pole, and around into a power module that's fastened to a raceway, which starts the electric current all around raceways as long as they're connected through festoons/connectors, pass through jumpers, and other power modules. To be safe, one ceiling infeed should power up to 8 cubicles at once.





POWER MODULE

In 3 standard sizes - 24", 36", and 48", power modules receive power from the base/wall infeed, ceiling infeed, or floor core infeed, to power receptacles (outlets) that clip in.

As of today, these are actually being mounted at the bottom, upside down because



RACEWAY

The raceway is typically the bottom-most "panel" and allows for electric to run into every cubicle requiring power. It typically comes in 3 sizes: 600mm*150mm, 900mm*150mm, 1200mm*150mm.

Inside each raceway is either a power module that's been mounted to the raceway, or a pass through jumper that passes the electric from one power module to the next. A raceway is not used if neither a pass through jumper runs through it, or there is no power module. Receptacles - aka outlets or duplexes - clip into power modules and through cut out holes in kickplates.

Raceways can also run above the work surface - called beltway power - but this is very uncommon since it means all the wires and cords would be out in the open.



RECEPTACLES / POWER OUTLETS

There are 4 lettered or numbered designations of standard receptacles: A, B, C, D (also 1, 2, 3, 4). Although there are slight differences in how each is wired internally, the letters or numbers are primarily reference points for the electrician to help him/her keep track of how to combine various receptacles of the same letter into one group of connections that all lead to their dedicated 15 amp breaker.

While each receptacle can draw up to 15 amps, typically each cubicle will draw 3-5 amps at any given point in the day - distributed into however many receptacles are being used and how users plug in their electronics (ie - computer in one receptacle, all other accessories in another).

Electricians should wire matching letters together to reach the breaker's 15 amp capacity (allowing up to 2.5 amps for each receptacle). If any one group of lettered receptacles (ie - all the A's) combines for more than 15 amps, then another infeed must be used.

Breaking it down further, if each letter uses 2.5 amps on average, then any one cluster can use up to 6 of that lettered receptacle (6 receptacles * 2.5 amps = 15amps). Which means, by evenly dispersing all 4 letters, the receptacles should be able to support up to a 12-pack of cubicles on one infeed plus 4 breakers.

A/B	C/D	A/B	C/D	A/B	C/D
A/B	C/D	A/B	C/D	А/В	C/D



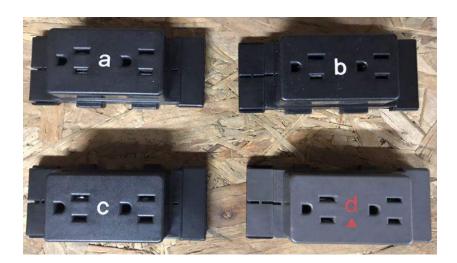


RECEPTACLES CONTINUED

Although A, B, C, and D receptacles are all basically the same, D is typically reserved as the dedicated circuit is for heavier pieces of equipment like printers, heaters, and to the breaker (see chart below). The only other difference is that A, B, C outlets are #10 gauge, while D outlet is #12

Common Equipment Amperages:

- Personal Computer 2.00 4.00
 Computer Monitor .25 .50
 Laser Printer 4.50
 Desktop Plotter 1.50
 Desk Fan .50 1.00
 Desk Heater 8.50 12.50
- (Not recommended to use in cubicle) •Tasklight - 1.00
- •Fan 1.00
- •Paper Shredder 4.00 12.00





ELECTRIC SPECIFICATIONS

cont.

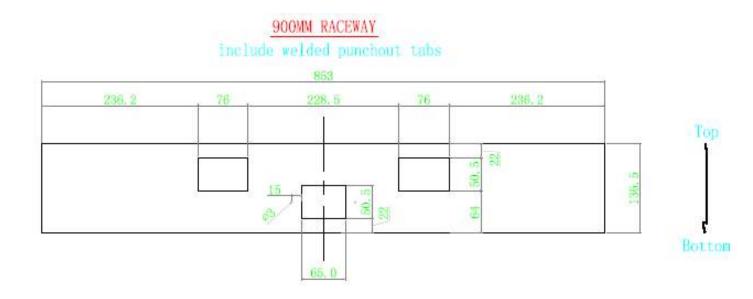
DATA

Standard kickplates (for 900mm, 1000mm, 1200mm raceways) will have one cutout 22mm from bottom in center, 65mm length by 50.5mm height and will use a data plate with one phone jack and one data jack

Will also stock extra kickplates with the same cutout as our standard PLUS two more cutouts of the same size on both sides of the kickplate - so 3 total cutouts for these kicks. We'll stock another set of data plates that are just two data jacks for the outlying data ports - so each kickplate can have up to 6 data ports or 5 data ports and 1 phone jack, or even 4 data ports and 2 phone jacks.



DATA



NETWORK CABLE RECEPTACLE BOXES-BELDEN CAT 6 FLUSH MOUNT SERIES

Workstation Outlets (continued) Interface Plates, MDVO Faceplates

Interface Plates combine flexibility and ease of use in work area installations. They are designed to accept the EZ-MDVO and other MDVO-Style Modules, UTP modules as well as all the MDVO multimedia modules. The Interface Plates are available in Single-gang and can accept up to 6 modules. They also have labeling capabilities using built-in labeling windows. The faceplates can be attached to standard electrical boxes or wallmounting hardware for flush-mount installations. The faceplates can also fit over the Interface Adapter Boxes for surface mount installations. The MDVO Angled Entry Faceplate offers better patch cord protection than traditional faceplates and optimizes patch cord bend radius control. The MDVO Angled Entry Faceplate can accept up to four EZ-MDVO or MDVO Multimedia Modules. The faceplate can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplate can also fit over the Interface Surface Adapter Box for surface mount installations.

AX101431 Inrterface Plate, 2-port, shown here with modules



AX101438 Interface Plate, 4-port, with modules and AX101441 Interface Plate, 6-port with modules

DATA

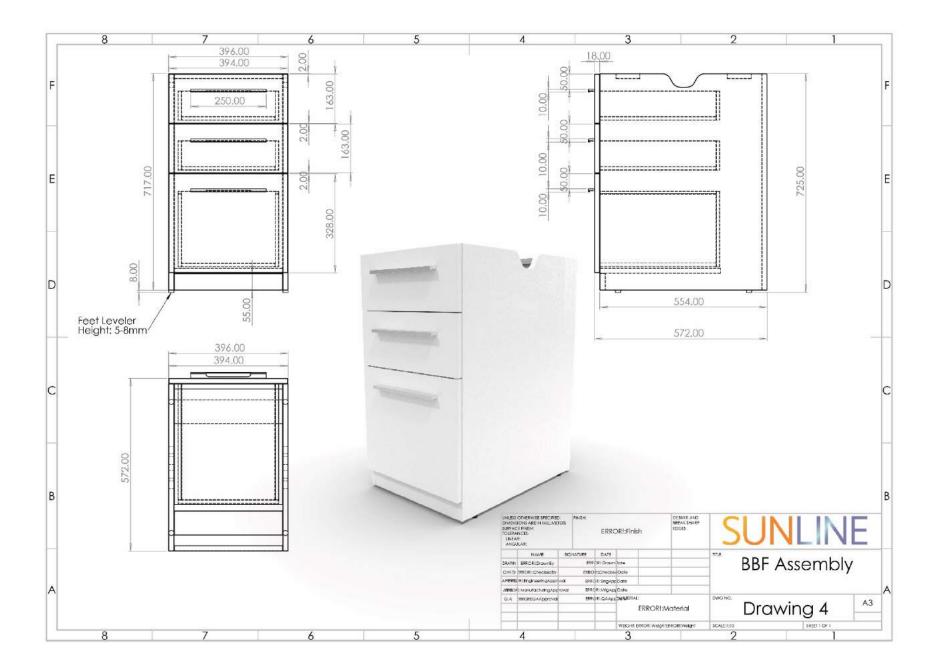
DataTwist 6, 5e and 5 F/UTP Shielded Cable Nonbonded-Pair

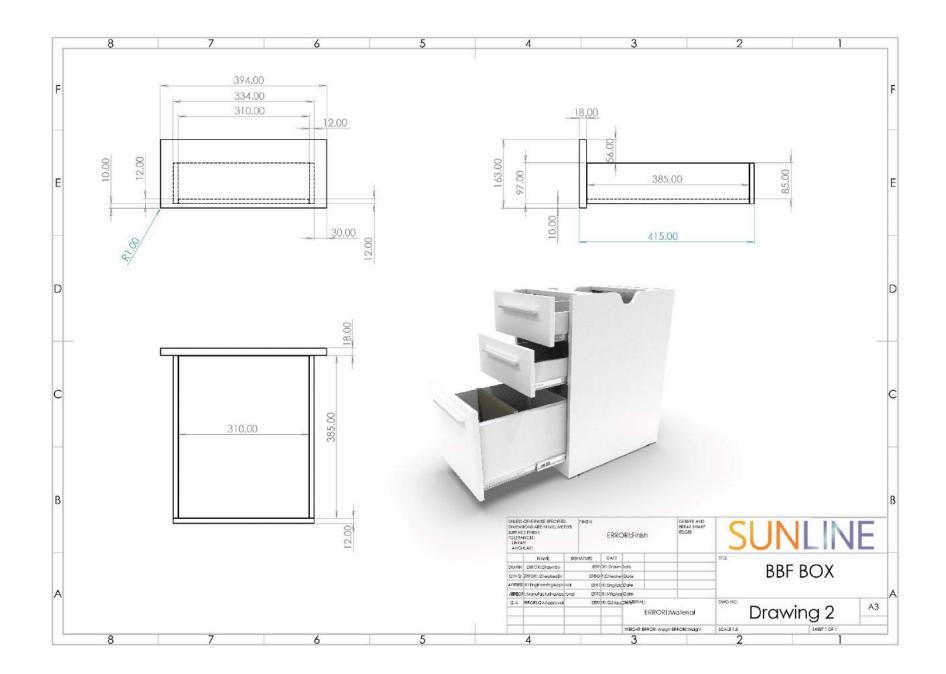
DataTwist[®] 6, 5e and 5 F/UTP shielded cables have thick, 100% coverage foil shields that protect systems from harsh EMI environments which improves data throughout. DataTwist 6, and 5e Shielded Cables consist of 4-pair F/UTP cables that meet or exceed ANSI/TIA/ EIA-568-C.2's requirements for Category 6 and 5e.

DataTwist 5 meets or exceeds ANSI/TIA/EIA-568-B.2's requirements for Category 5.

FF, BBF, 2-DRAWER LATERAL FILE ENGINEERING DRAWINGS

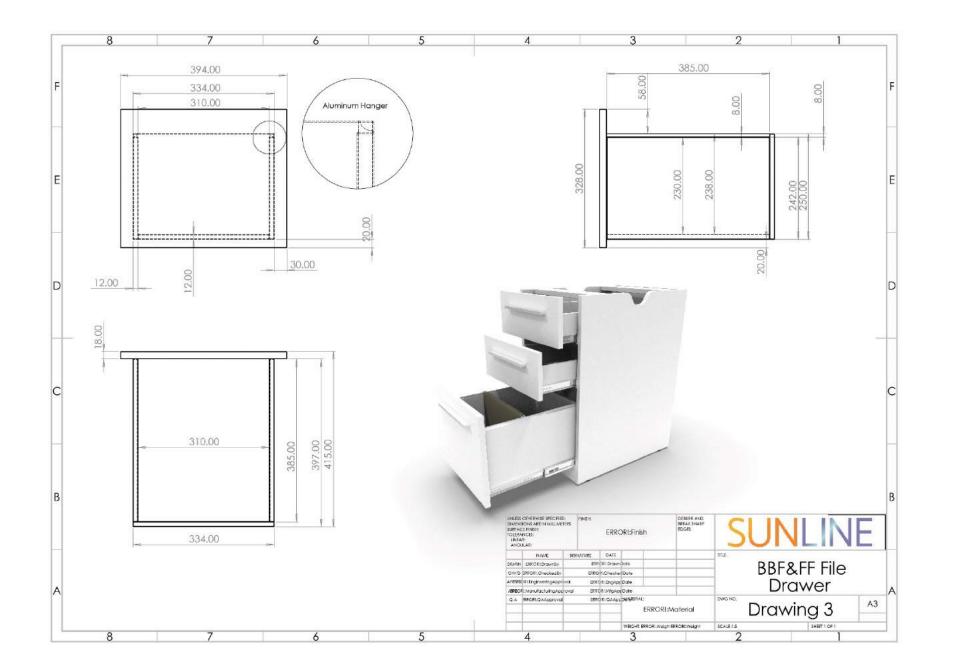




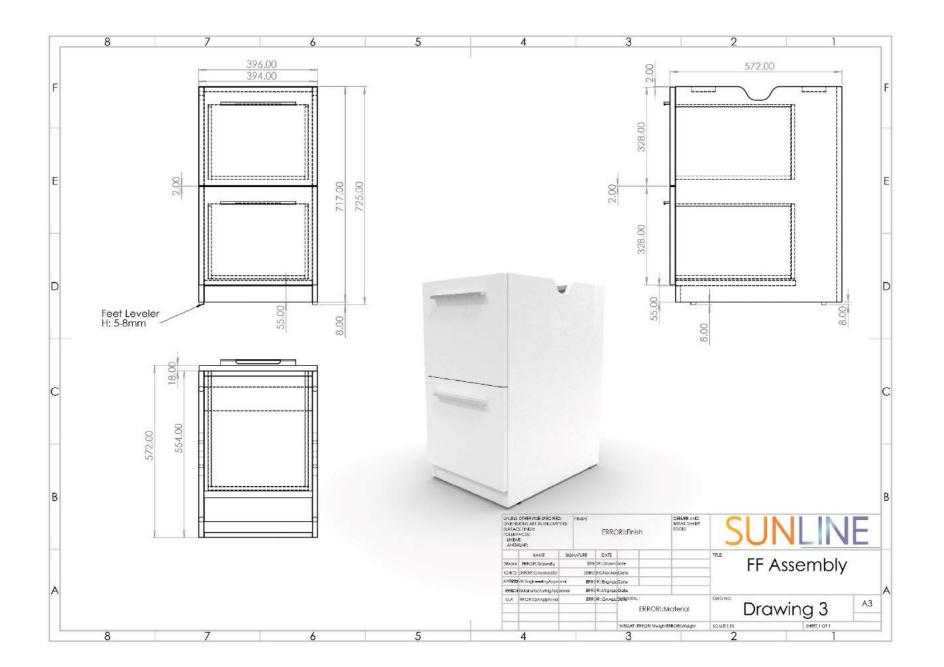


SUN LINE[®]

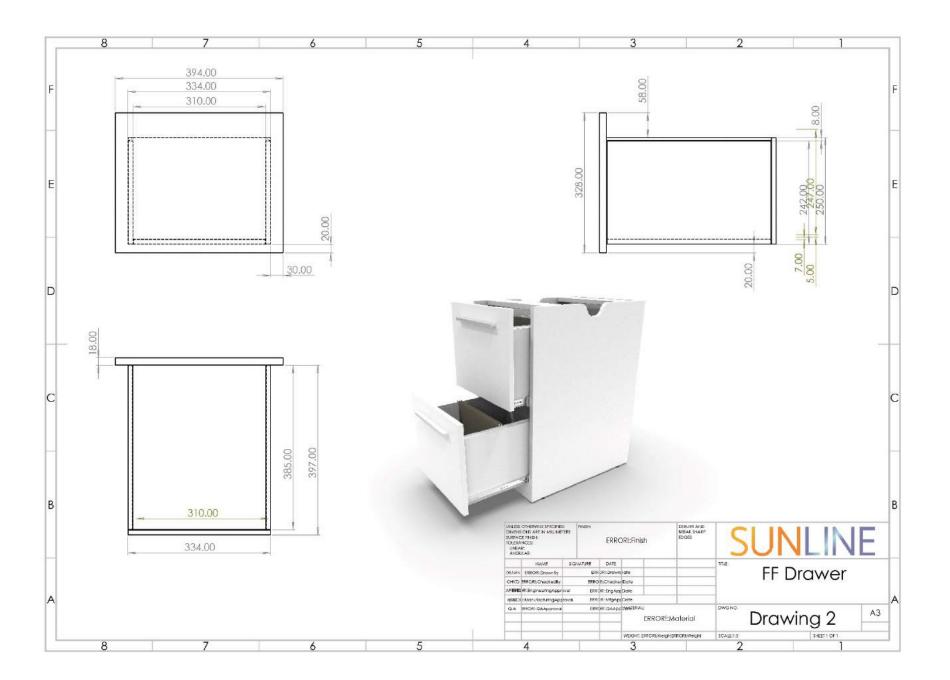
BBF



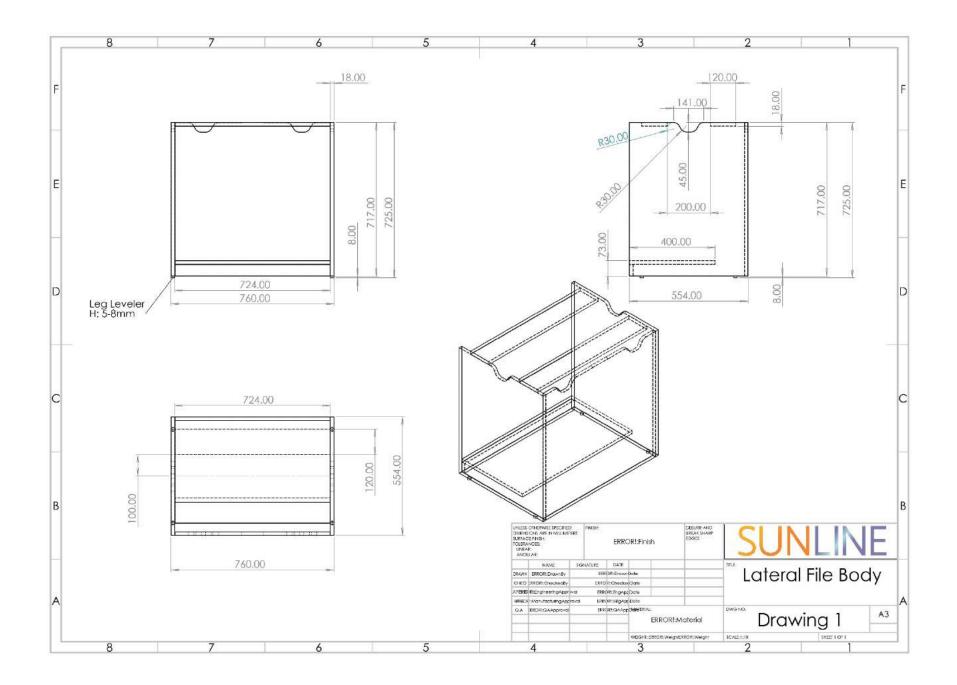




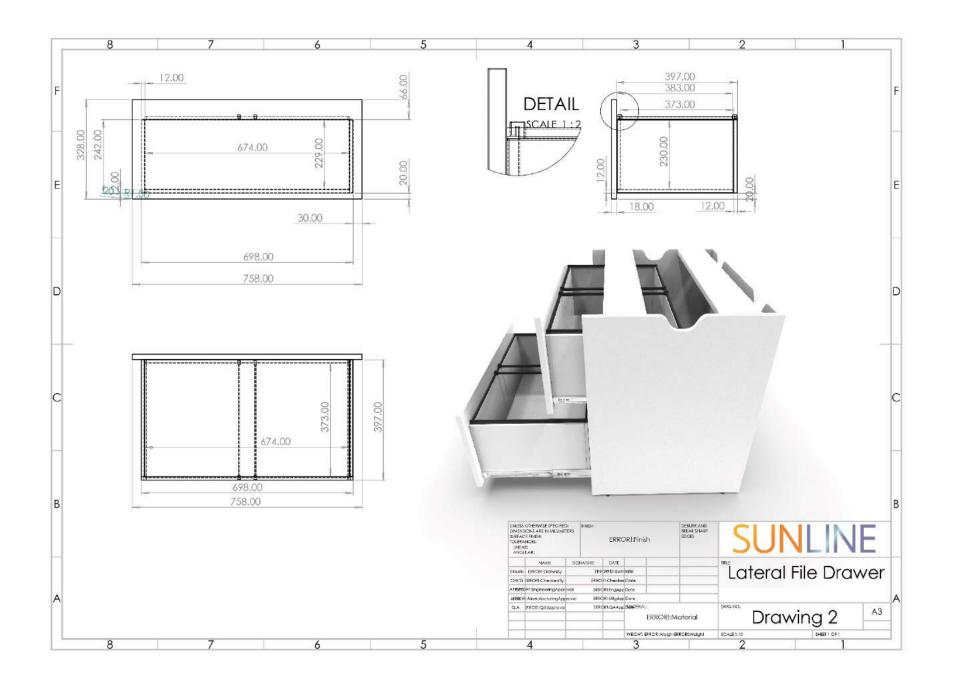
SUN LINE[®] FF





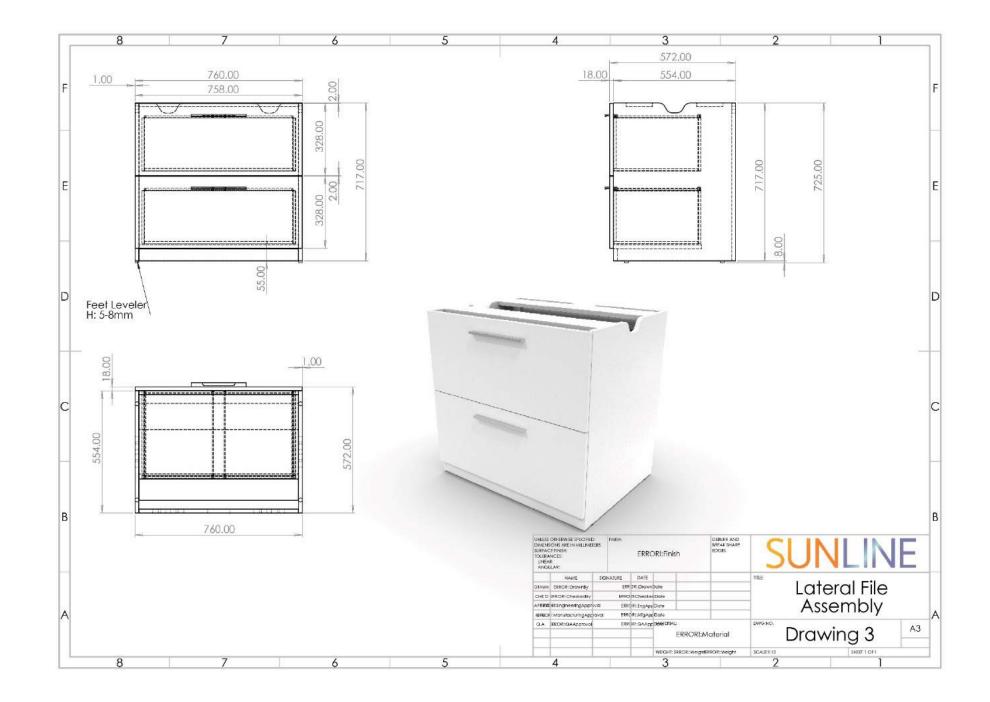






SUN LINE[®] 2-D LAT





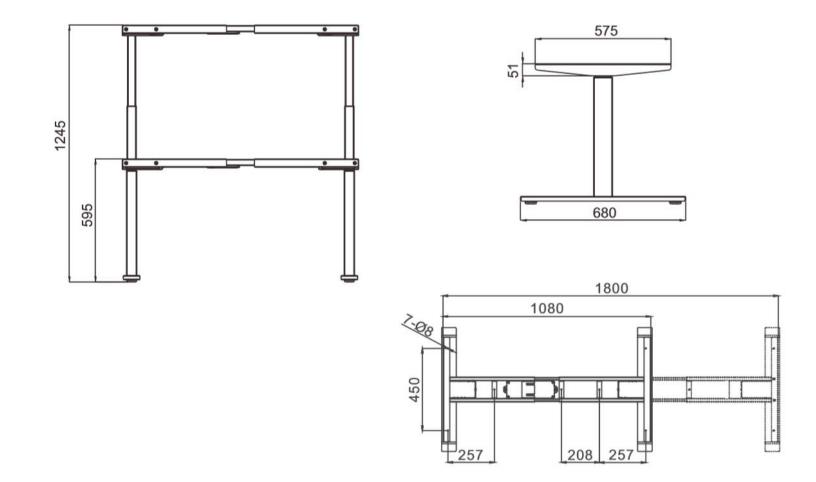




- Adjustable height range: 575-1255mm
- Frame extendable range: 1080-1800mm to fit desk top size. 1200- 1800mm
- Foot size selection: 600mm or 700mm No hole leg design, no screw on the outside of frame
- Load capacity: 1200N
- Max speed: 40mm/s
- Low noise level: <50dB with no-load condition Anticollision safety protection
- Low standby power < 0.1W
- Surface: powder coating with standard colors: White(RAL9016), Black(RAL9005), Grey(RAL7045)



Dimensions





"Standard anti-collision is based on a reading of current interruption with only a 60 second millisecond reaction time. With 6 axis, there are sensors in the control box that react within 5 milliseconds. It is a much more accurate, sensitive, and responsive system."





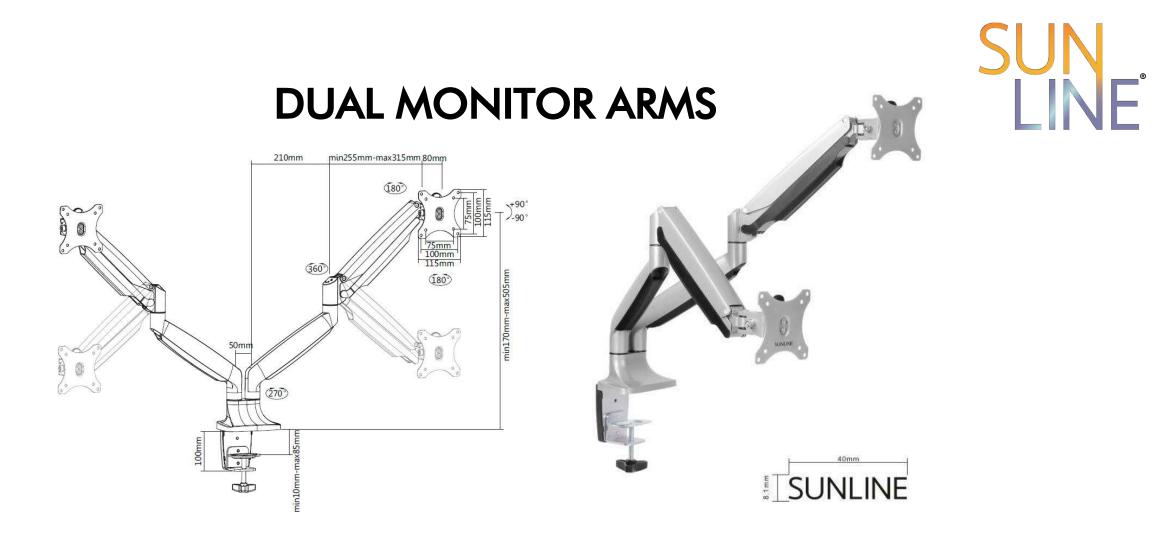


OPTIONS

- Compatible with all the handsets
- Customized colors compatible with several different styles of feet
- Bracket for crossbar
- Data sheet
- Features



69.8 AVI234M



Sunline part # AOF-700 Dual Monitor Arm is constructed from die-cast aluminum, weight counter balanced adjustable arm moves up, down, forward, and back with just a touch.

- Maximum weight capacity of 10kg/22 lbs. for each bracket.
- Desk mount with 180° monitor rotation, -90°~ +90° tilt, 180° swivel and vertical distance height adjustments.
- Screen size 13" to 32".
- Designed with cable management and removable VESA panel for installation.



ADJUSTABLE KEYBOARD TRAY



Material		Product Size	Lifting Height	Max.Rated Load
Steel,Plastic,C	Compact+Panel	670x782x215MM (26.4"x30.8"x8.5")	170MM (6.7")	2Kg (4.4lbs)
Keyboard Material	Angle Adjustment	Slippery Course Schedule		Right Or Left Range
Compact+Panel	+15°~-15°	320mm (12.6")	*	20*~-20*











Leatherette composite headrest support



Adjustable gel arms

Backrest

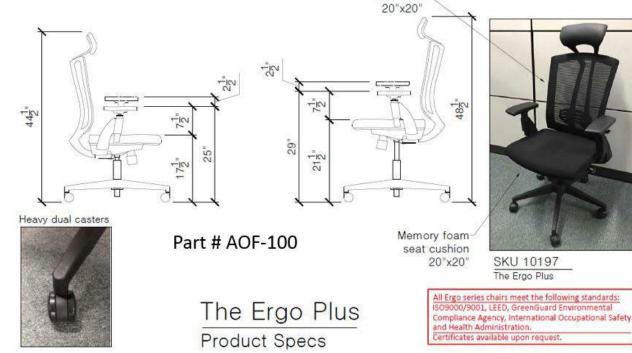


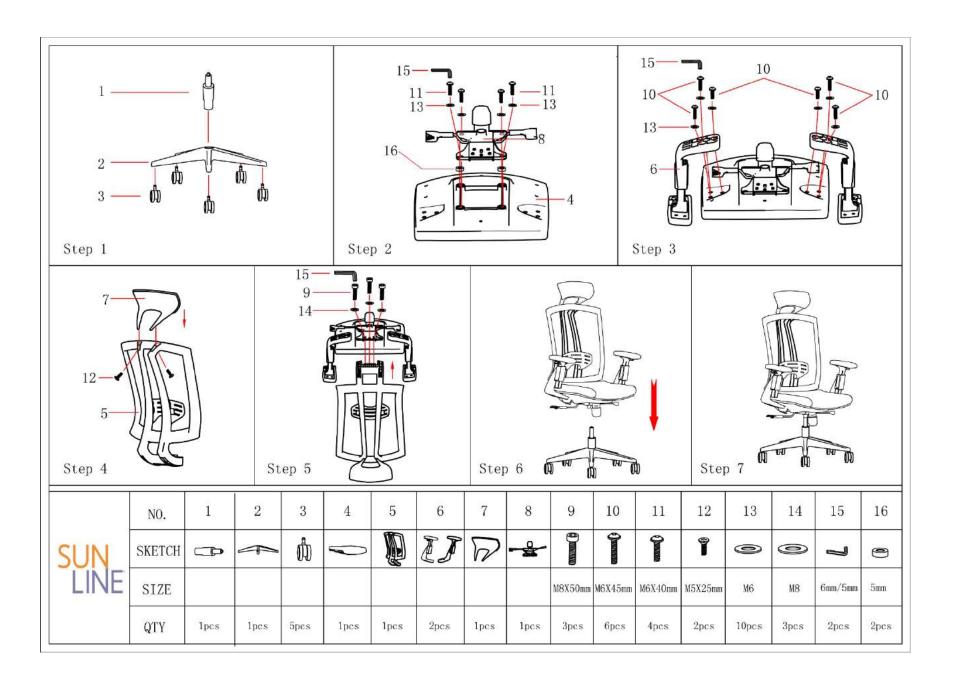
Heavy duty base with hard molded seat structure, pneumatic gas lift, tension lock and tilt control



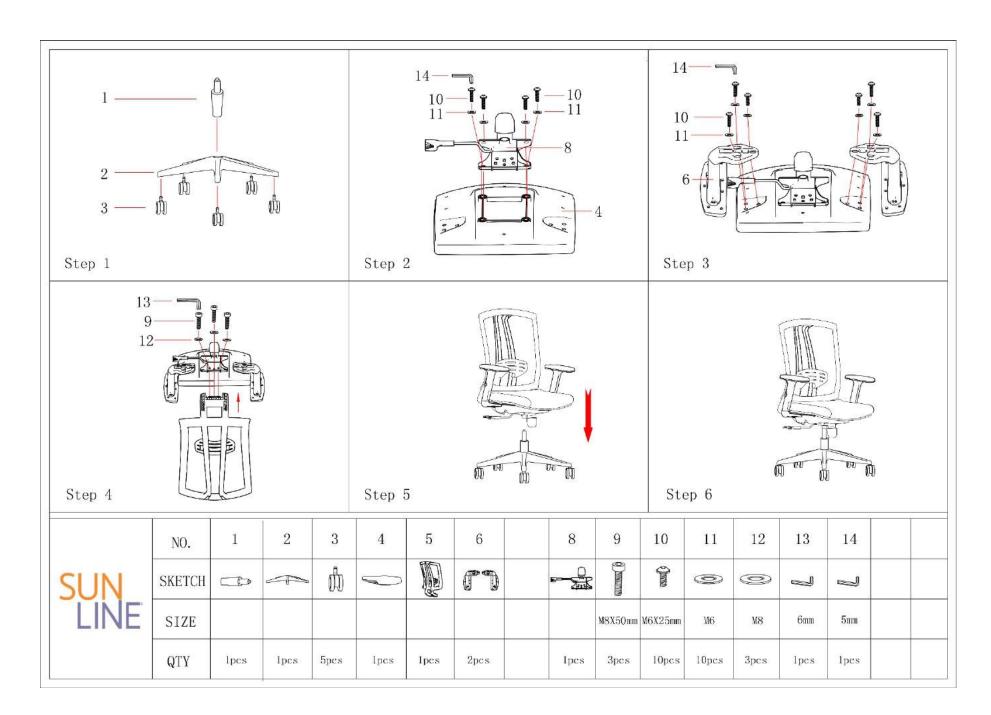
WEIGHT BEARING CAPACITY

- Ergo Plus (AoF-100) 440 lbs ٠
- Ergo Classic (AoF-300) 330 lbs •













All Sunline Series Cubicle systems meet the following standards:

- ISO9000/9001
- LEED
- GreenGuard Environmental Compliance Agency
- International Occupational Safety and Health Administration

Certificates available upon request









Occupational Safety and Health Administration





Full versions of these certificates for Cubicles are available:

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PANEL MATERIAL COMPOSITION

MSDS Material Safety Data Sheet

NO	Raw material	Level	Formaldehyde content	VOC
1	MDF	EO	≤0.5mg/L	/
2	Partical board	EO	<mark>≤0.5</mark> mg/L	1
3	honeycomb paper	/	/	/
4	Glue	/	≤1.0g/kg	≤ 110g/L
5	Fabric	С	≤300mg/kg	/
6	Steel	1	/	/
7	Glass	1	/	1
8	Aluminum	1	/	/



- NO TOOLS required to build cubicle walls only some screws needed to secure work surfaces
- In seconds, change fabric to glass for freedom or glass to fabric for extra privacy
- Panels simply slide in and out for ultimate flexibility
- No professional experience necessary to build and disassemble
- Build any configuration of 2' and 3' panels: 4'x2', 5'x5', 6'x6', 7'x7', 8'x6', 8'x8', 9'x12', 10'x15' and more
- Made of high quality materials anodized aluminum, HPL particle board, class A fabric
- Priced 30-50% less than all other new systems on the market today
- Hundreds of color and finish combinations
- Plenty of storage and accessory options to choose from
- Easily relocate with simple disassembly and reassembly
- Breakdown and rebuild entire departments in days with a small crew

Never be locked into your cubicles or your decisions again.



FREQUENTLY ASKED QUESTIONS

Q: It appears the panels are non-tackable and non-acoustical – masonite skins behind the fabric. Probably a decent STC rating but no NRC. A: We have tackable tiles available. Behind the tackable fabric is our honeycomb core that carry a decent NRC rating. The tackable surface is more sound absorbing as well.

- Q: What is the fiber content of the panel fabric?
- A: Polyester/Rayon.
- Q: Is panel fabric Class A? A: Yes
- Q: What is its colorfastness etc.?
- A: The test results for the following were "4-5" which is the highest you can get for color fastness results for normal use for office panels, water, perspiration, soap wash, dry rub, light chemicals. Results available.
- Q: What panel widths are available? A: Panel widths are 24", 30", 36", 42", 48", 60", 72"
- Q: Are the worksurfaces and edges HPL? What is the worksurface thickness? A: Yes edges are HPL. Thickness is 25mm or 32mm (1" or 1.25")

Q: What is the grommet situation like? In some views, it appears there is a corner grommet only. A: One standard, you can have as many as you need.

Q: Can you provide USB charging? A: Yes, no problem.

SUN LINE

FREQUENTLY ASKED QUESTIONS

Q: Is all the electrical UL listed? A: Yes!

Q: What are the drawer pedestal configurations? Mobile peds? Are the peds and their drawer fronts steel? Plastic?

A: There are many choices available: mobile peds, mobile with seat cushions, 3-drawer (box-box-file) and 2 drawer (file-file):

- stationary wood with laminate finish sides and front drawers, metal with metal drawers and fronts full height supporting type
- 2-drawer lateral both wood laminate and metal full height supporting

Q: Can a workstation's pedestal and overhead cabinets be keyed alike, or is it all mixed key? Is there master keying available for the convenience of facility management?

A: Yes, keyed and alike, with master key available - full key program.

Q: What is the material of the overhead cabinet? The tambour door? A: Wood laminate sides, a lockable PVC door made by REHAU Polymer Solutions - excellent company! See link to website <u>www.rehau.com/group-</u> en/landingpages/rauvolet-tambour-door-systems

Q: Is there an under-cabinet task light available? Cord manager? The shadow beneath an overhead is sometimes a problem.

A: Yes, LED task light with state of the art hand motion sensor, which means no switch to conk out, and with 100,000 hours, no bulbs to change! Yes, cord manager system.

Q: What is the arm-to-arm clear dimension on The Ergo? A: 20" - wider are available.

Q: What adjustments other than height and arm height exist for The Ergo? A: Pneumatic gas lift, tilt lock and tension control, sliding adjustable lumbar support, adjustable arms.

Q: Is there a seat depth adjustment?

A: Yes, available as an extra option.













SUNLINE® THE FUTURE OF CUBICLES











