

SAPPHIRE

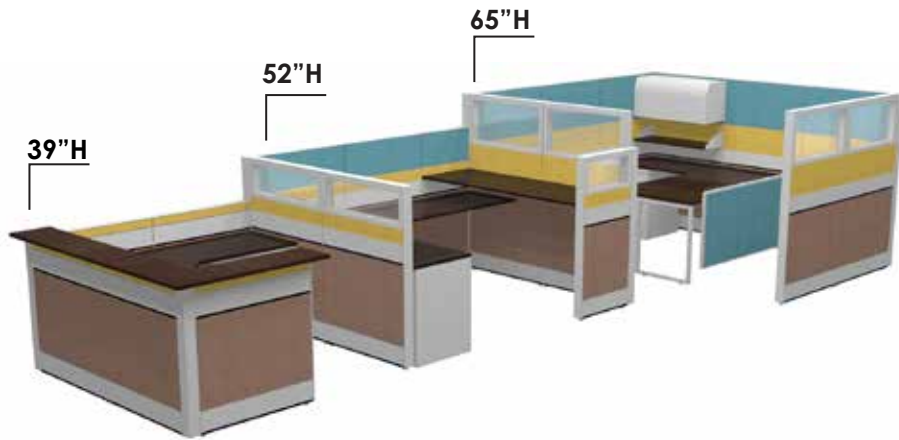
CUBICLE SYSTEM



Specifications & Fire Test Report



888-993-3757
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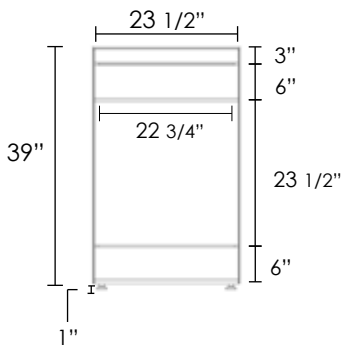


- 6" cable channel on the base of each panel. Can also be customized to have a second raceway on the belt-line of the panel.
- Panel thickness: 3 1/4"
- Frames & connections: Aluminum
- Optional interior furnishings available

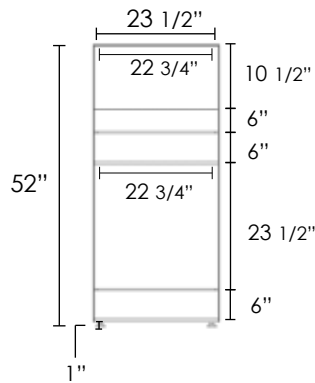
- Custom and quick-ship options available
- Panels come in 24"W or 36"W
- ANSI/BIFMA
- Fabric ISO 9001
- Electric: UL Listed

Example of Panel Dimensions

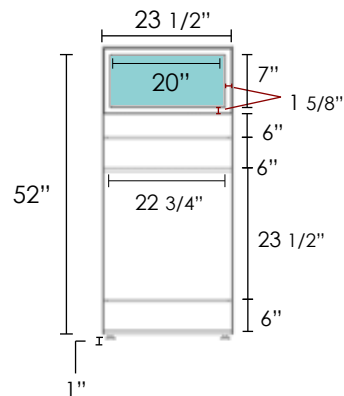
24"W x 39"H Solid Panels



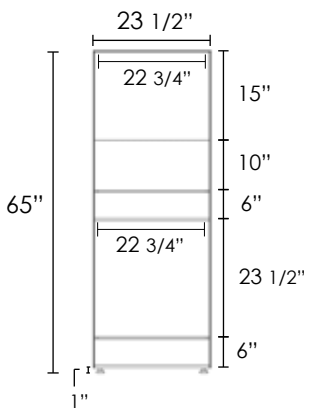
24"W x 52"H Solid Panels



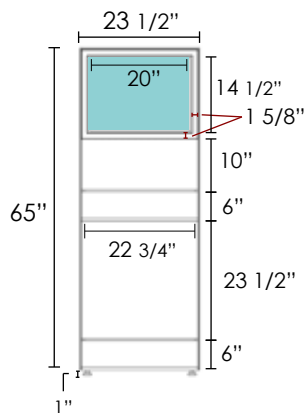
24"W x 52"H Glass Panels



24"W x 65"H Solid Panels

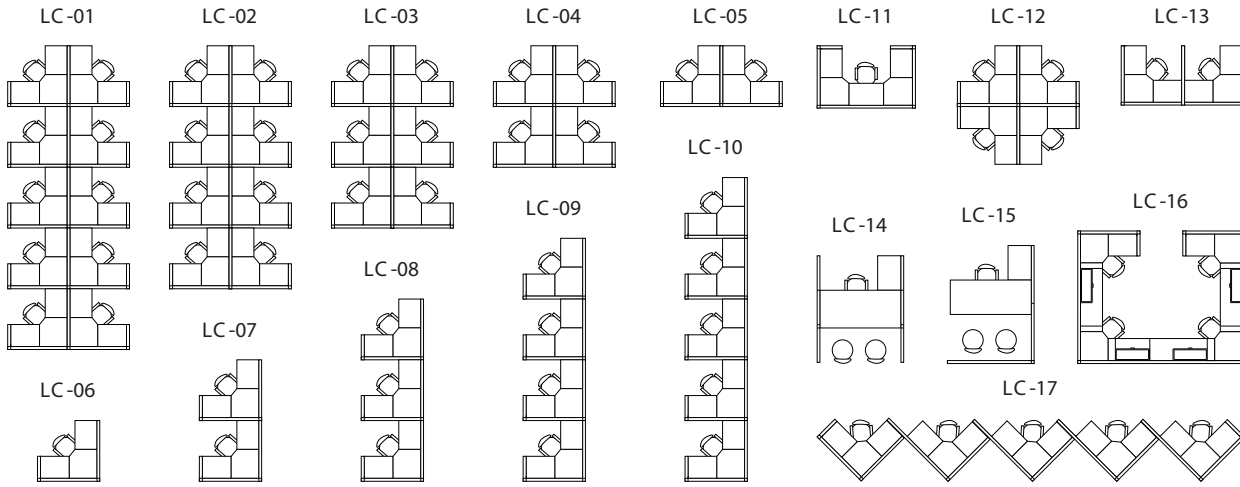


24"W x 65"H Glass Panels

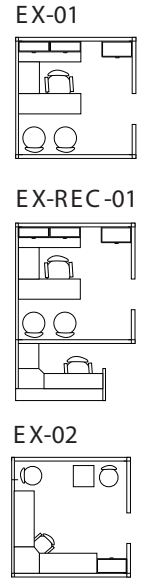


Cubicle Layouts

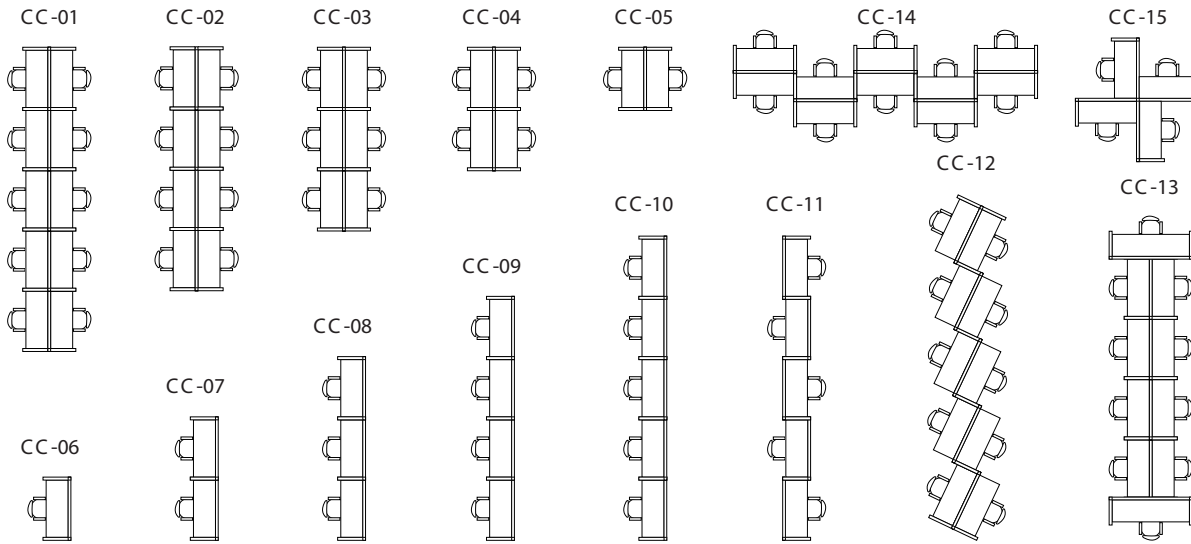
Customer Service



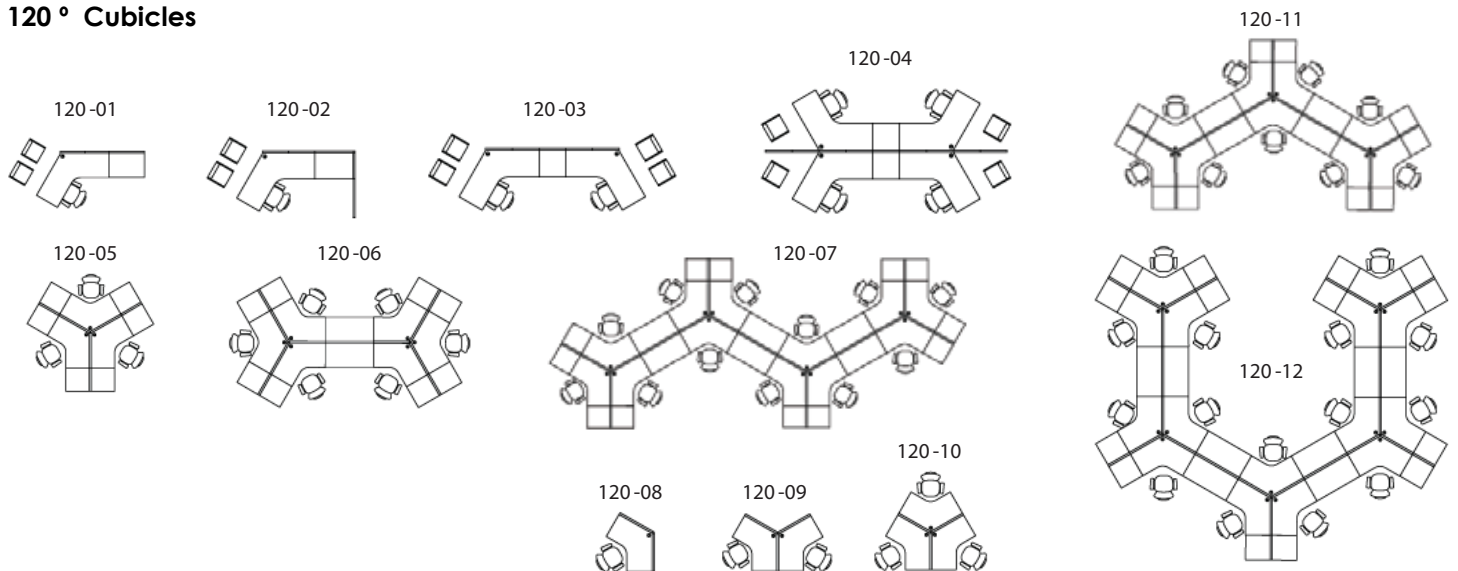
Executive



Call Center

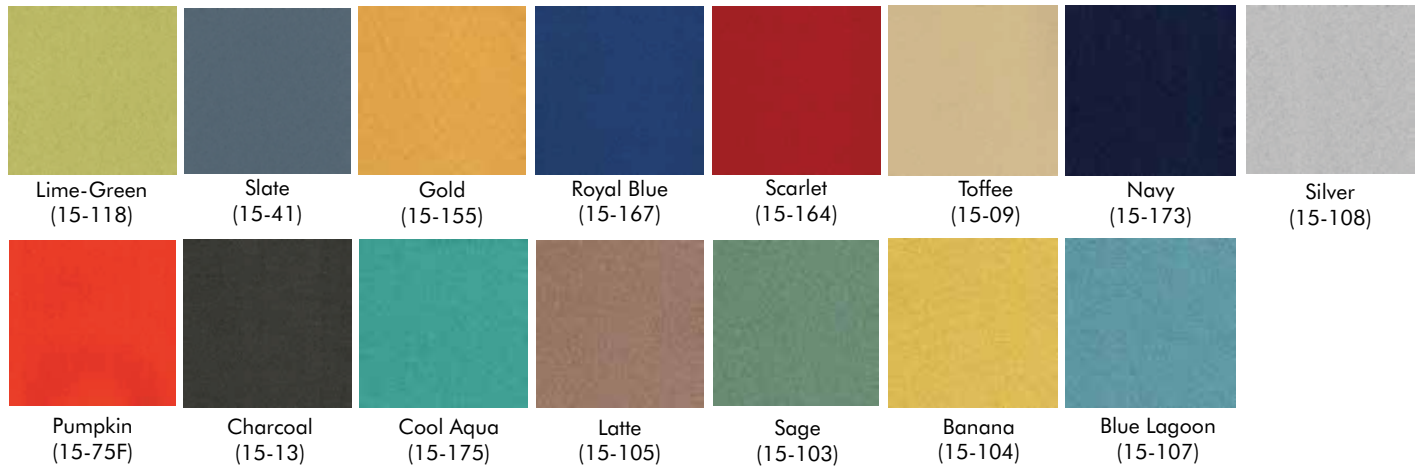


120° Cubicles



Fabrics

In-house Fabrics (2-3 weeks):



Test item	Test Standard	Unit	Test Result	
			Small Pear	
Color Fastness to Water	AATCC107-2002	Srain Fading	4	4
	GB/T5713-1997	Srain Fading	4	4
Color Fastness to Perspiration	AATCC15-2002	Srain Fading	4	4
	GB/T3922-1997	Srain Fading	4-5	4-5
Color Fastness to Washing	ISO 105-C03:1989	Srain Fading	4-5	4-5
	GB/T3921.3-1997	Srain Fading	4-5	4-5
Color Fastness to Light	ISO 105-B02:1997	Xenon-Lamp	5	
	GB/T8427-1998	Xenon-Lamp	5	
Color Fastness to Rubbing	AATCC8:2001	Dry Wet	4-5	4-5
	GB/T 3920-1997	Dry Wet	4-5	4-5
Tear Strength	ASTM D2261	Wrap Filling	12.5	10.3
	GB/T3917.2-1997	Wrap Filling	11	8.5
Seam Slippage Strength	ASTM D434	Wrap Filling	17.5	22
	GB/T 13772.1-1992	Wrap Filling	16	19.5
Seam Breaking Strength	ASTM D1683-04	Wrap Filling	31.5	26.5
	GB/T 13773-1992	Wrap Filling	45.9	47.7
Tensile Strength	ASTM D5034-1995-1	Wrap Filling	87	63
	GB/T3923.2-1997	Wrap Filling	88	65
Burst Strength	ASTM D3787	cm ²	117.9	
Abrasion Resistance	ASTM D4966-98 Martindale 12Kpa		over 30,000	
Flammability Test Required	California Technical Bulletin 117 Section E, Part I (CS191-53)		Pass	
	BS 5852 Part I: 1979, Match Test		Pass	

Part I. Test Conducted:

ANSI/BIFMA X5.6-2016 Panel Systems - Tests.

Test and Requirements	Test Results
<p>4 Panel Flammability Test</p> <p>The Flame Spread (FS) index shall be 200 or less. The Smoke Developed (SD) index shall be 450 or less. If the Smoke Developed index exceeds 450, the product shall be labeled to indicate that the Smoke Developed index exceeds 450.</p>	<p>PASS</p> <p>FSI: 55 SDI:200</p>

<p>14 Wear and Fatigue Test for Vertically Hinged and Horizontally Sliding Access Doors</p> <p>Cycle the door for a total of 20,000 cycles. The cyclic rate shall be 8 ± 4 cycles per minute unless the rate is controlled by the door operating mechanisms. There shall be no loss of serviceability to the door unit or its components.</p>	<p>PASS</p>
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Predicted Concentrations in the defined Typical Office Environment of a Single Office Workstation:

Compounds	Unit	Concentration		Limits of indoor air concentration	
		Office1	Office2	Systems Furniture	Seating
TVOCtoluene	mg/m ³	0.007	0.003	≤ 0.5	≤ 0.25
Formaldehyde	ppb	5.657	2.449	≤ 50	≤ 25
Total Aldehydes	ppb	6.546	2.833	≤ 100	≤ 50
4-Phenylcyclohexene	mg/m ³	ND	ND	≤ 0.0065	≤ 0.00325

ND=not detectable

Remark:

- Office 1: Typical open plan office environment, its clean air ventilation rate $Q_0 = 15.0\text{m}^3/\text{h}$ or $Q_0 = 24.8\text{m}^3/\text{h}$ (for seating)
- Office 2: Typical private office environment, its clean air ventilation rate $Q_0 = 34.7\text{m}^3/\text{h}$ or $Q_0 = 24.8\text{m}^3/\text{h}$ (for seating)
- Data at the 168th hour was used to calculate and compare with the emission limits.

Installation Information

ROCKBOARD® 40 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.07	0.32	0.77	1.04	1.05	1.05	0.80
2.0"	0.26	0.68	1.12	1.10	1.03	1.04	1.00
4.0"	1.03	1.07	1.12	1.04	1.07	1.08	1.10

ROCKBOARD® 60 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.08	0.33	0.78	1.03	1.02	1.04	0.80
2.0"	0.32	0.81	1.06	1.02	0.99	1.04	0.95

ROCKBOARD® 80 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.11	0.31	0.82	1.01	1.02	1.01	0.80
2.0"	0.43	0.78	0.90	0.97	0.97	1.00	0.90

Environmentally Sustainable

Our stone wool production process uses some of the most advanced technology available. The last decade has seen a new generation of ROXUL manufacturing advancements designed to lower our environmental footprint. These endeavors have included:

- the capture and recycling of rainwater;
- reduction in energy consumption;
- recycling of raw materials back into the production process;
- the use of natural lighting in our facilities; and
- repurposing water used during the manufacturing process.

Moisture Resistance

ROCKBOARD® 40/60/80 ASTM C 1104	Moisture Sorption	<0.08%
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Fungi Resistance

ROCKBOARD® 40/60/80 ASTM C 1338	Determination of Fungi Resistance	Passed
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Thermal Resistance

ROCKBOARD® 40/80 ASTM C 518 (C 177)	R-value/inch @ 75 °F RSI value/25.4 mm @ 24 °C	4.1 hr.ft².F/BTU 0.72 m²K/W
ROCKBOARD® 60 ASTM C 518 (C 177)	R-value/inch @ 75 °F RSI value/25.4 mm @ 24 °C	4.2 hr.ft².F/BTU 0.72 m²K/W

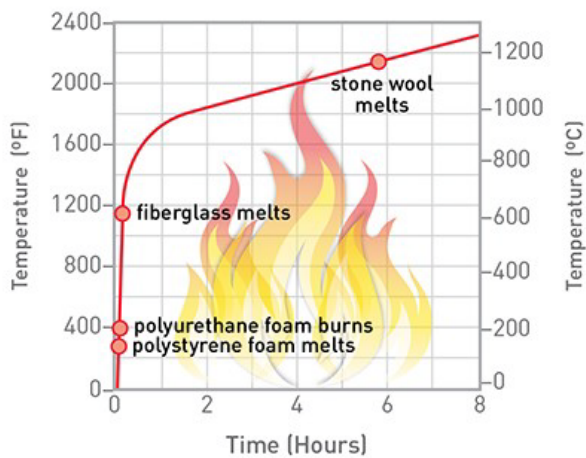
Maximum Service Temperature

ROCKBOARD® 40/60/80	ASTM C 411	Hot Surface Performance In Compliance with ASTM C 612 @ 1200 °F (650 °C)
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Fire Performance

ROCKBOARD® 40/60/80 CAN4 S114	Test for Non-Combustibility	Non-Combustible
ROCKBOARD® 40/60/80 ASTM E 84(UL 723)	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
ROCKBOARD® 40/60/80 CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0

Temperature Development in a Standard Fire (ASTM E119)



Compliance and Performance

ROCKBOARD® 40 ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVA, Complies
ROCKBOARD® 60/80 ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies

