SCHILDR

Ultimate Outdoor Solutions

ABOUT SCHILDR

Schildr offers the best solutions to utilize your outdoor space all year round.

Our wide range of innovative products can be tailored to your specific needs to create an aesthetically pleasing landscape.

We lead by example through quality, design, and functionality.

It's definitely unique. I've never seen anything like it before

- Andy Spiler, Commack Fire Department

PERGOLA RETRACTABLE AWNING | MOTORIZED AND MANUAL

We offer an aesthetic solution to outdoor problems with our retractable pergola systems. Our Pergolas allow you to have the freedom to create whatever environment you want when outside. Our systems come with every amenity you can think of so you don't have to. We use an aluminum structure that can withstand many different weather conditions, and doubles as a gutter and drainage pipe. We bring together the top materials and technology so we can help you make use of your outdoor space all year round. All of our pergolas are water-resistant, fire retardant, waterproof, remote-controlled and have custom finishes. They also come with optional dimmable LED lights built-in.

AVANTGARDE   ELEGANT   TOSCANA

Applications

Patios, Decks, Porches, Balconies, Terraces, Pools, Sukkah, Restaurants, Hotels, Rooftops

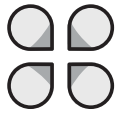Available in freestanding or wall-mounted versions.

AVANTGARDE

Avantgarde is a high-end retractable awning with aluminum structure. They come with features like built in drainage and dimmable LED lights. Everything is retractable at the click of a button. Avantgarde Pergola Roof offers lasting and aesthetic systems to make sure you can make use of your patio, terrace, and backyard all year round.

All Seasons

Resists bad weather

Fire retardant

Complete blackout

Watertight

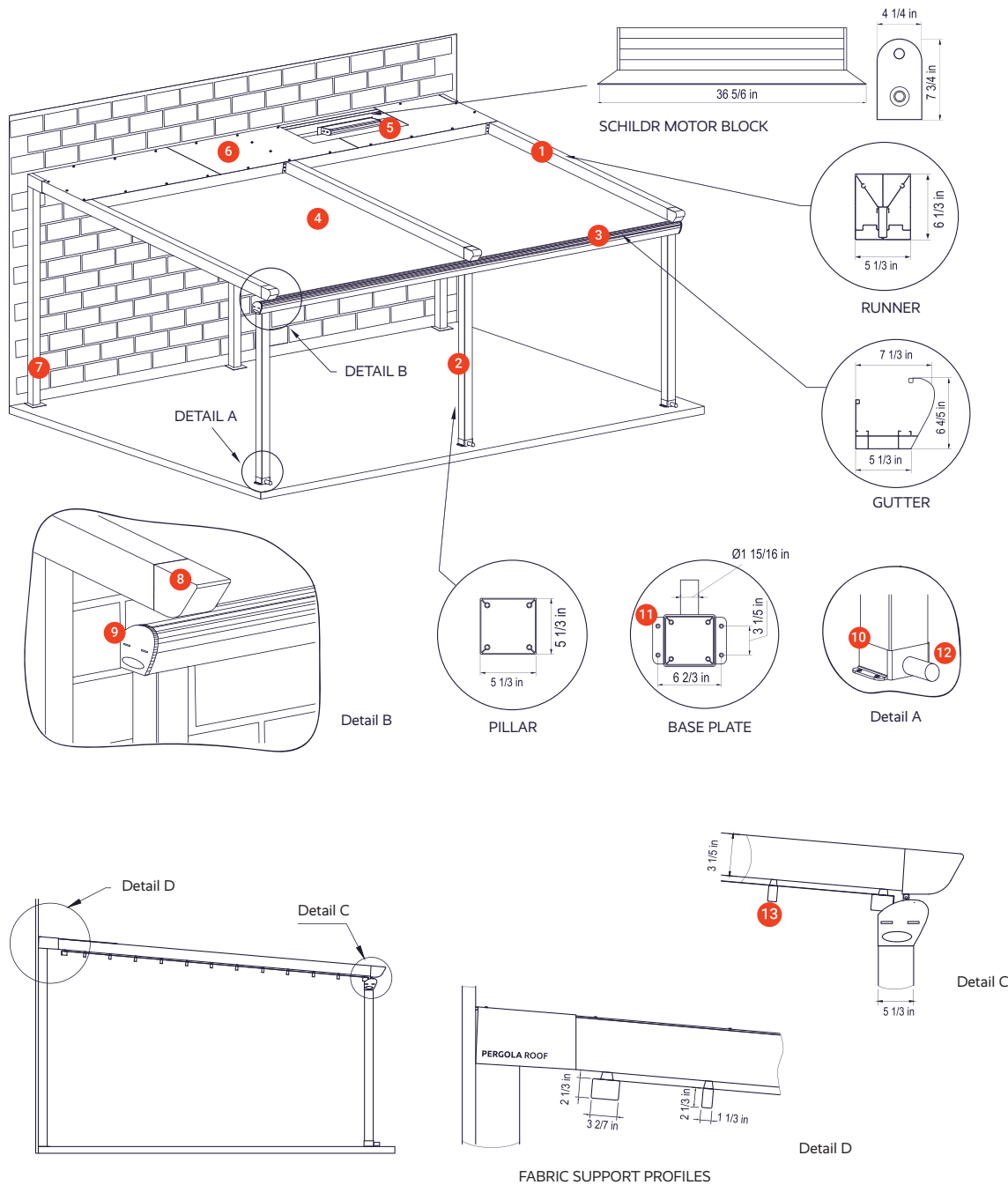Dimmable LED lights

Remote controlled

Custom finishes

Design Specs

SCHILDR MOTOR BLOCK

4 1/4 in
36 5/6 in
7 3/4 in

RUNNER

6 1/3 in
5 1/3 in

GUTTER

7 1/3 in
6 4/5 in
5 1/3 in

DETAIL B

DETAIL A

Detail B

5
6
1
4
3
2
7
8
9

PILLAR

5 1/3 in
5 1/3 in

BASE PLATE

Ø1 15/16 in
3 1/5 in
6 2/3 in

11

Detail A

10
12

Detail D

Detail C

3 1/5 in

13

Detail C

5 1/3 in

PERGOLA ROOF

2 1/3 in
3 2/7 in
2 1/3 in
1 1/3 in

Detail D

FABRIC SUPPORT PROFILES

1.   Unibody aluminum press casting runner beam

2.   Aluminum column (3 mm thick)

3.   Double-skinned aluminum stream gutter

4.   Fire retardant and waterproof retractable ceiling fabric with 3 layered complete blackout by Sergi Ferrari

5.   The opening / closing movement of the roof cover is motorized with remote control by Somfy

6.   Motor and fabric cover panel

7.   Rear legs may be eliminated when directly installed to the wall

8.   Die cast aluminum beam end cap

9.   Plastic injected stream gutter side cap

10. Aluminum die casting attachment flange

11. M18 hex nut

12. Water dissent

13. Rail profile with integrated LED lighting

Series

LINEAR

AL1   Max Projection - 32'

AL2   Max Projection - 16'

AL3   Max Projection - 12'

AL4

ARC

AA1   Max Projection - 24'
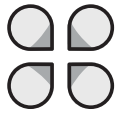

AA2   Max Projection - 12'

AA3   Max Projection - 12'

AA4

ELEGANT

Elegant is our affordable slimmer high-end retractable awning with aluminum structure, durable fabric and LED lights, Elegant keeps every project in budget while offering lasting and aesthetic solution.

All Seasons

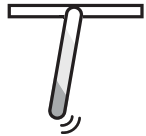Resists bad weather

Fire retardant
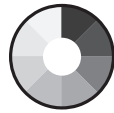
Complete blackout

Watertight

Dimmable LED lights

Remote controlled

Manual cranking

Custom finishes
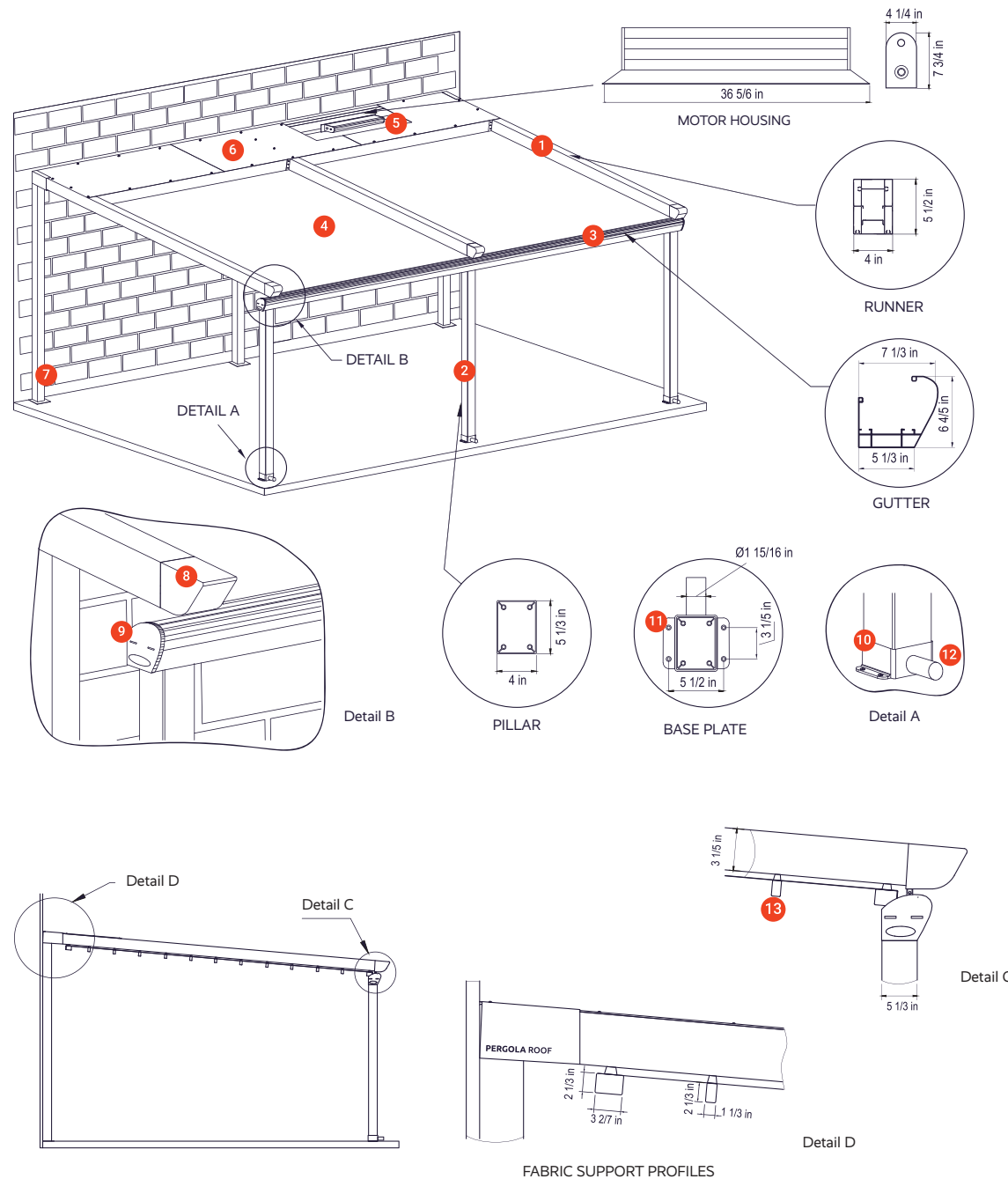
Built to last

Pergola **Elegant**

Design Specs

MOTOR HOUSING

4 1/4 in

7 3/4 in

36 5/6 in

RUNNER

5 1/2 in

4 in

GUTTER

7 1/3 in

6 4/5 in

5 1/3 in

DETAIL B

DETAIL A

Detail B

PILLAR

5 1/3 in

4 in

BASE PLATE

Ø1 15/16 in

3 1/5 in

5 1/2 in

Detail A

Detail D

Detail C

Detail C

3 1/5 in

5 1/3 in

Detail D

PERGOLA ROOF

2 1/3 in

3 2/7 in

2 1/3 in

1 1/3 in

FABRIC SUPPORT PROFILES

1. Unibody aluminum press casting runner beam

2. Aluminum column (3 mm thick)

3. Double-skinned aluminum stream gutter

4. Fire retardant and waterproof retractable ceiling fabric with 3 layered complete blackout by Sergi Ferrari

5. The opening / closing movement of the roof cover is motorized with remote control by Somfy

6. Motor and fabric cover panel

7. Rear legs may be eliminated when directly installed to the wall

8. Die cast aluminum beam end cap

9. Plastic injected stream gutter side cap

10. Aluminum die casting attachment flange

11. M18 hex nut

12. Water dissent

13. Rail profile with integrated LED lighting

Pergola **Elegant**

Series

LINEAR

EL1   Max Projection - 23'

EL2   Max Projection - 16'

EL3   Max Projection - 12'

EL4

ARC

EA1   Max Projection - 23'

EA2   Max Projection - 12'

EA3   Max Projection - 12'

EA4

TOSCANA

High-end retractable awning with aluminum structure, Avantgarde Pergola Roof offers lasting and aesthetic systems to make use of your patio, terrace, and backyard all year around.
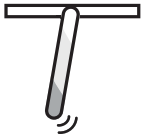
Resists bad
weather

Fire
retardant

Complete
blackout

Rain
protection
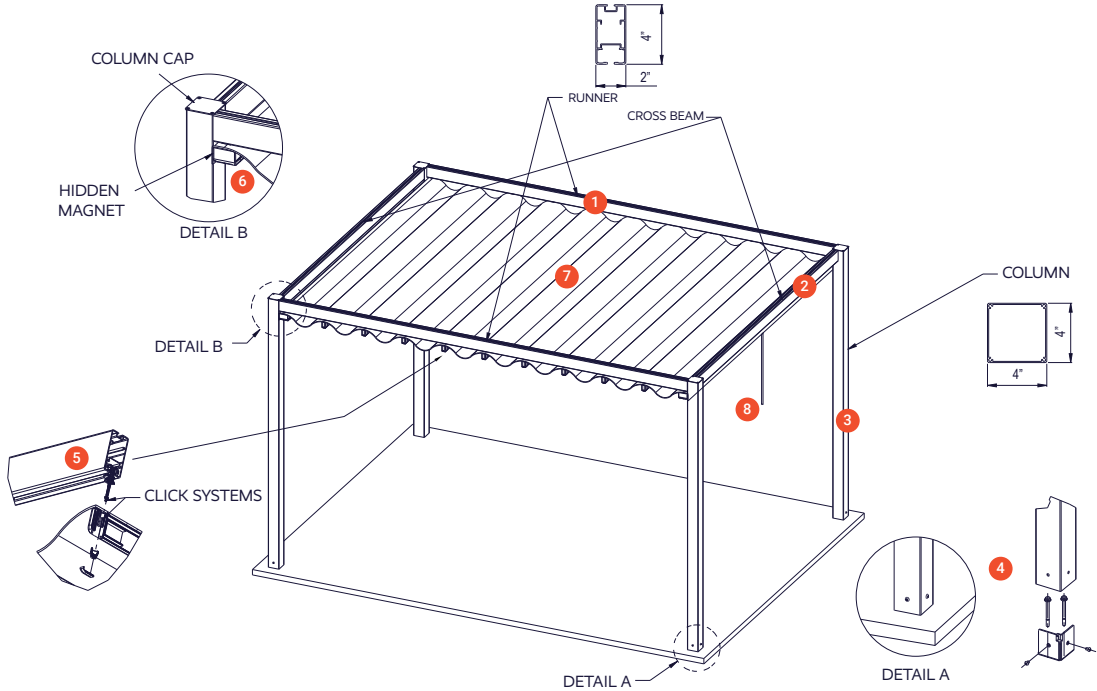
Custom
finishes

Manual
cranking

Built
to last

Design Specs

COLUMN CAP

HIDDEN
MAGNET

DETAIL B

6

DETAIL B

RUNNER

4"

2"

CROSS BEAM

1

7

2

COLUMN

4"

4"

3

8

5

CLICK SYSTEMS

4

DETAIL A

DETAIL A

1. Aluminum runner beam (3 mm thick)

2. Aluminum cross beam (3 mm thick)

3. Aluminum column (3 mm thick)

4. Floor connection details

5. Wheel mechanism canopy connection detail

6. Hidden magnetic latch

7. Composite vinyl canopy fabric by Serge Ferrari

8. Open/close handle

Open   Semi-open   Closed

Materials

FABRIC / COMPOSITE

Soltis Flexlight 602 by Serge Ferrari is a highly durable, dimensionally
stable material with a 5 year warranty.

	Flexlight 602		
	Technical properties		**Standards**
Yarn	1100 dtex PES HT	1100 dtex PES HT	
Finish	Varnish both sides	Varnish both sides	
Weight	19.1 oz/yd2	22 oz/yd2	EN ISO 2286-2
Width	105.1	62 in: 109.3 yds 98.4 & 105.1 in: 54.6/328 yds	
Standard length	54.6 yds/328 yds		
Tensile strength (warp/weft)	250/250 daN/5 cm		EN ISO 1421
Tear strength (warp/weft)	25/25 daN/5 cm		DIN 53.363
Adhesion	9/9 daN/5 cm		EN ISO 2411
Flame retardancy	Method 2/NFPA 701 • CSFM T19 • ASTM E662 • B1/DIN 4102-1 • M2/NFP 92-507 • Euroclass EN ISO 13501-1 • CAN / ULC S109-2014 (pending)		
Extreme working temperatures	-31ºF / +158ºF		In static position, internal test
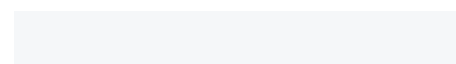
White   602N-8503   Grey   602N-1070   Vanilla   602N-50020

STRUCTURE

	Technical properties	Standards
Metal	11 gauge aluminum	
Finish	PE58 Qualicoat approved thermosetting powder coatings	
Weight	4 psf	
Width	16' span max. (no limit on number of sections)	
Projection	32' max. (single runner beam)	
Wind resistance	130 mph (vinyl canopy retracted closed)	
Tensile strength Rm (N/mm2)	245 (min.)	TS EN ISO 6892-1
Yield point Rp 0,2 (N/mm2)	200 (min.)	TS EN ISO 6892-1
Elongation A (%)	10 (min.)	TS EN ISO 6892-1

Terra Brown RAL 8028	Brown Beige RAL 1011	Jet Black RAL 9005	Mahogany Brown RAL 8016
Pure White RAL 9010	Grey RAL 9006	Grey Beige RAL 1019	Anthracite RAL 7022

MOTOR

Altus® is suitable for pre- and post-construction opportunities and can be controlled with any Radio Technology Somfy accessory.

LT60 Altus RTS 6100R2	
Technical properties	
Voltage supply	120V AC, 60Hz / 220V AC, 50Hz
Limit switch type	Electronic RTS (remote controlled)
Torque	100 Nm (880 in. lbs.)
Rated current	3.8A
Speed	14 rpm
Sound level	≤ 67 dBA
Temperature working range	14°F to 104°F (-10°C to 40°C)

TELIS 4 and 16 RTS hand-held remote extends control up to 4 and 16 different channels within 65 feet of range.

DECOFLEX WIREFREE™ RTS is battery-powered and a completely wireless wall switch.

LIGHTS

SCHILDR pergolas come with optional built-in LED spot or tube lighting

Samsung Tube LED	
Technical properties	
Operating voltage	24V
Color temperature	3,000K
LED type	700 Lumen
Protection class	IP 68
Body color	Off-white
Life	50,000 Hrs
Operating temperature	-30°C to 85°C
Dimenions	180 x 35 mm

Tube LED
embeded into aluminum rail profile

| Phillips Spot LED	
Technical properties	
Operating voltage	90-265V AC 50-60Hz
Color temperature	3,000K
LED type	Phillips Lumileds Luxeon K2
Protection class	IP 68
Body color	Off-white
Life	50,000 Hrs
Operating temperature	-30°C to 85°C
Weight and Dimenions	190 gr, 58 x 108 mm

Spot LED
on aluminum rail profile

LOUVER LOUVERED ROOF | MOTORIZED

High-end motorized louvered roof, made of an aluminum structure with insulated aluminum panels. Our louvered structure offers outstanding comfort in the cold and hot seasons. This structure is built to handle whatever mother nature chooses to throw at it. Can handle a good snow load and wind load.
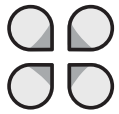
All Seasons	Resists bad weather	Fire retardant	Complete blackout	Watertight	Dimmable LED lights

Remote controlled	Custom finishes	Built to last

Design Specs

6"x9.5" GUTTER

9.5"

6"

4"

9.5"

6

7

LOUVER
BLADES

2"

9.5"

5

MOTOR CONTROL UNIT

1

2

BASE PLATE

3

GUTTER & PILLAR
CONNECTION DETAIL

4

6"x6" COLUMN

6"

6"
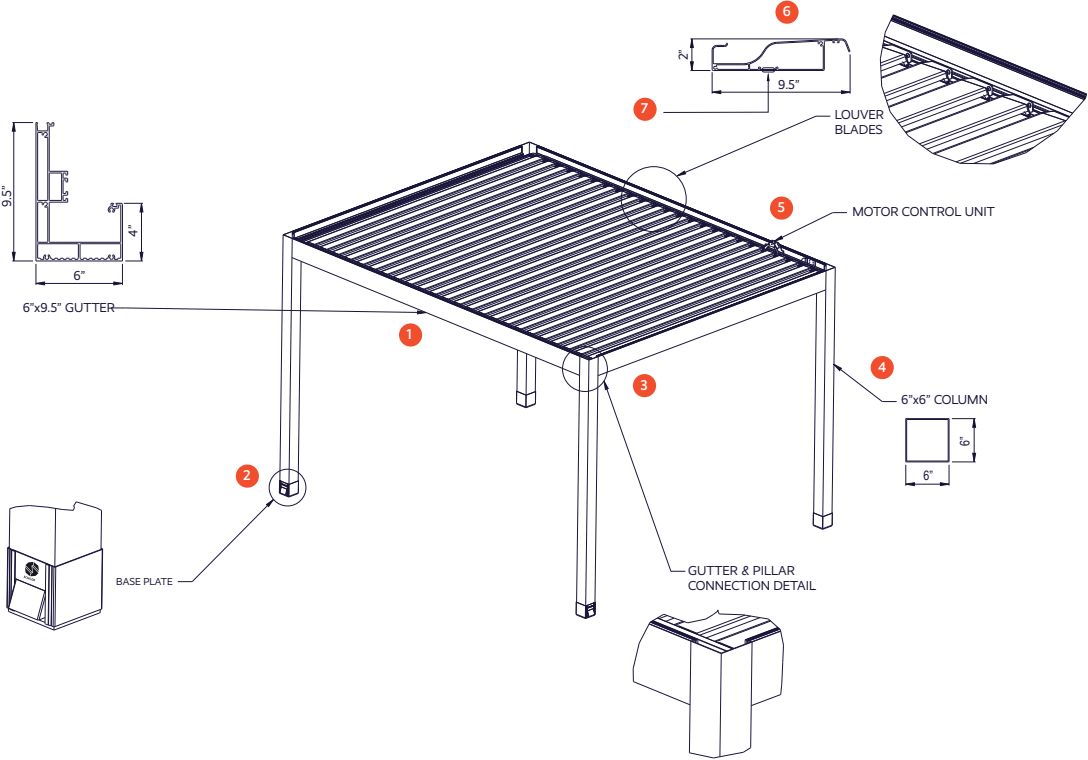
1.   Built-in gutter aluminum side profiles

2.   Unibody aluminum press casting base plate

3.   Gutter drainage through column

4.   Aluminum column (3 mm thick)

5.   The pivoting open / close movement of the
     louver blades is motorized with remote control

6.   Louver blades pivot up to 110°, they can be
     filled polyurethane foam for insulation

7.   Optional integrated LED lights

Free standing - closed

Free standing - open

Wall mounted - closed

Wall mounted - open
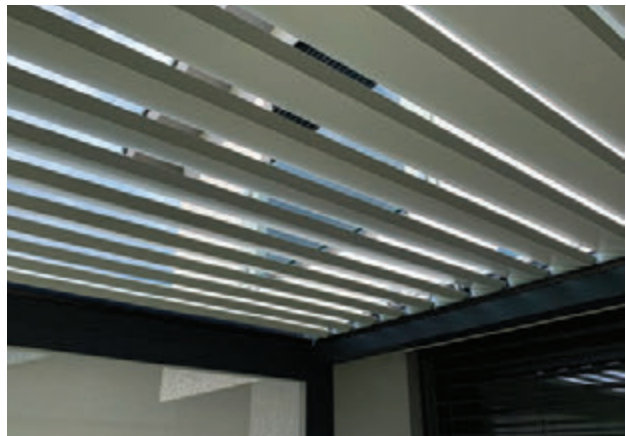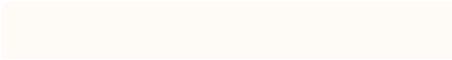
Louver

Materials

STRUCTURE

	Technical properties	**Standards**
Metal	11 gauge aluminum	
Finish	PE58 Qualicoat approved thermosetting powder coatings	
Weight	6 psf	
Width	15′ span max. (no limit on number of sections)	
Projection	32′ max. (single runner beam)	
Wind Resistance	135 mph	
Snow load	40 psf	
Tensile strength Rm (N/mm2)	245 (min.)	TS EN ISO 6892-1
Yield point Rp 0,2 (N/mm2)	200 (min.)	TS EN ISO 6892-1
Elongation A (%)	10 (min.)	TS EN ISO 6892-1

Terra Brown	RAL 8028	Brown Beige	RAL 1011	Jet Black	RAL 9005	Mahogany Brown	RAL 8016
Pure White	RAL 9010	Grey	RAL 9006	Grey Beige	RAL 1019	Anthracite	RAL 7022

SCREEN ROLL-UP SHADING | MOTORIZED

We work to making your outdoor the best it can be. Without shades, you can create outdoor blinds that provide privacy and protection against sun, heat, wind, rain, and insects. This add on aesthetically complements Schildr systems by fully enclosing your patio, balcony or terrace and retracts with remote control. It withstands strong winds, provides micro air circulation and water resistance. It is a wonderful addition to any of SCHILDR outdoor systems.

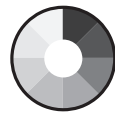| All Seasons	Resists bad weather	Fire retardant	Partial blackout	Water repellent	Dimmable LED lights

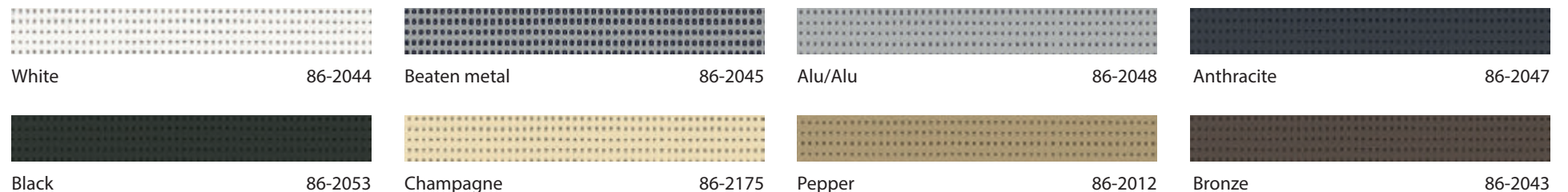| Air circulation	Remote controlled	Custom finishes	Built to last

Materials

FABRIC / COMPOSITE

Thanks to Précontraint technology by Serge Ferrari, both Horizon 86 and Perform 92 have outstanding dimensional stability. They are environmentally friendly and recyclable.

Soltis Horizon 86 is a 14% open mesh composite that offers the best outward visibility with a level of up to 28% natural light transmission.

	Soltis Horizon 86	
	Technical properties	**Standards**
Weight	11.2 oz/yd2	EN ISO 2286-2
Thickness	0.45 mm / 450 microns	
Width	69.7 in - 105.1 in	EN ISO 2286-2
Standard format length	69.7" width: 54.68 yds 105.1" width: 43.74 yds	
Tensile strength (warp/weft)	230/160 daN/ 5 cm	EN ISO 1421
Tear strength (warp/weft)	45/20 daN	DIN 53.363
Flame retardancy	CSFM T19 • Method 1/NFPA 701 • Class A/ASTM E84	
Warranty	5 years	

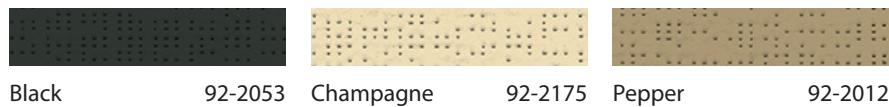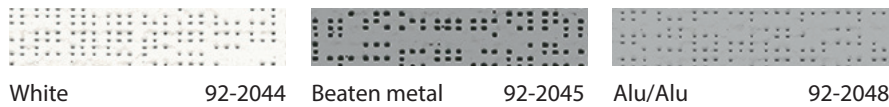| White	86-2044	Beaten metal	86-2045	Alu/Alu	86-2048	Anthracite	86-2047
Black	86-2053	Champagne	86-2175	Pepper	86-2012	Bronze	86-2043

Soltis Perform 92 is a 4% open mesh and an advanced thermal shield. It blocks up to 97% of heat in external window applications.

This micro-perforated screen offers the best thermal performance while maintaining outward visibility.

Soltis Proof W96 protects against UV and bad weather, while preserving the level of natural light transmitted. This translucent, waterproof fabric is ideal for pergolas and shade canopies.

	Soltis Horizon 92
	Technical properties
Weight	12.4 oz/yd2
Thickness	0.45 mm / 450 microns
Width	69.7 in - 105.1 in
Standard format length	69.7" width: 54.68 yds 105.1" width: 43.74 yds
Tensile strength (warp/weft)	310/210 daN/ 5 cm
Tear strength (warp/weft)	45/20 daN
Flame retardancy	Method 1/ NFPA 701 • CSFM T19 • Class A/ ASTM E84
Warranty	5 years

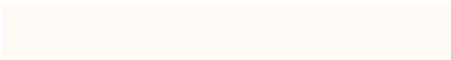|	Soltis Proof W96
	Technical properties
Weight	620 g/m2 — 18.3 oz/sqyd
Thickness	0.56 mm / 560 microns
Width	267 cm — 105.1 in.
Standard format length	35 lm — 38.27 yds
Tensile strength (warp/weft)	220/220 daN/5 cm
Tear strength (warp/weft)	25/20 daN
Flame retardancy	M2
Warranty	5 years

White 92-2044   Beaten metal 92-2045   Alu/Alu 92-2048

Black 92-2053   Champagne 92-2175   Pepper 92-2012

Anthracite 92-2047   Bronze 92-2043

White W96-8102   Off white W96-1103

Cloud W96-2171   Anthracite W96-2047

STRUCTURE

This easy maintenance waterproof material protects against bad weather and UV and offers exceptional dirt and mold resistance due to its PVDF surface.

Technical properties

Metal	11 gauge aluminum
Finish	PE58 Qualicoat approved thermosetting powder coatings
Weight	3 psf
Width	22' span max. (no limit on number of sections)
Height	14' max.
Wind resistance	60 mph

Terra Brown	RAL 8028	Brown Beige	RAL 1011
Pure White	RAL 9010	Grey	RAL 9006
Jet Black	RAL 9005	Mahogany Brown	RAL 8016
Grey Beige	RAL 1019	Anthracite	RAL 7022

MOTOR

Altus® is suitable for pre- and post-construction opportunities and can be controlled with any Radio Technology Somfy accessory including hand-held remote controls, wireless wall switches and timers.

somfy®

	LT50 Altus RTS 530R2
	Technical properties
Voltage supply	120V AC, 60Hz / 220V AC, 50Hz
Limit switch type	Electronic RTS (remote controlled)
Torque	30 Nm
Rated current	1.5A
Speed	14 rpm
Sound level	≤ 67 dBA
Temperature working range	14°F to 104°F (-10°C to 40°C)

TELIS 4 and 16 RTS hand-held remote extends control up to 4 and 16 different channels within 65 feet of range.

DECOFLEX WIREFREE™ RTS is battery-powered and a completely wireless wall switch.

Design Specs

DETAIL A

DETAIL B
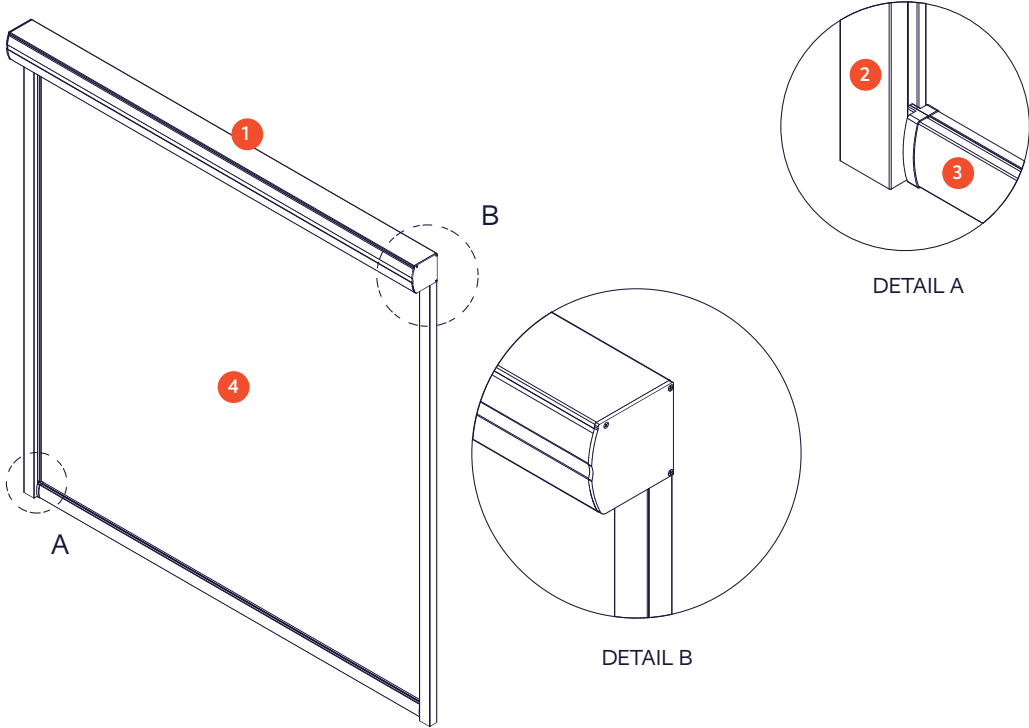
1. Motor housing

2. Aluminum channel profile with plastic zipper insert

3. Aluminum screen anchor

4. Fire retardant and water repellant composite vinyl with micro-air circulation (waterproof vinyl also available)

Open

Semi-open

Closed

SUNROOM RETRACTABLE GLASS CANOPY | MOTORIZED

Expand your space and create another room for your restaurant or home
where you can see the beauty of every season through the glass of your Sunroom.
The glass roof can be stationary or retractable. The Sunroom is a watertight
system that can protect you from harsh weather. SCHILDR Sunroom offers a few
different types of glass, such as; tempered, laminated and glazed glass panels, all
provide Low-E emitting sunlight that helps keep the temperature cozy and comfortable.
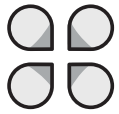
All Seasons	Resists bad weather	Fire retardant	Partial blackout	Dimmable LED lights	Remote controlled

Custom finishes	Built to last

Applications
Rooftops, Conservatories, Greenery, Terraces, Pools

Sunroom

Design Specs

DETAIL A

DETAIL B

2
1
5
DETAIL A
6   DETAIL B
3
7
4
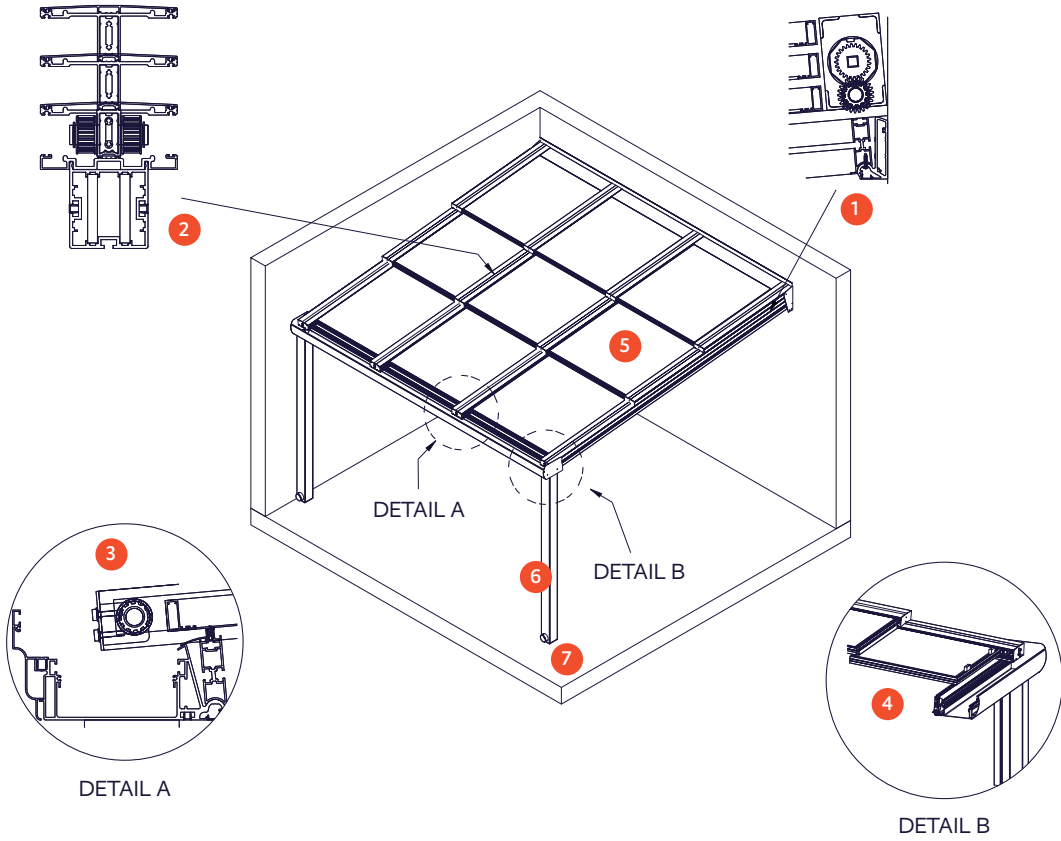
1. Motor housing profile

2. Runner beam with chain mechanism

3. Runner beam and gutter connection

4. Built-in gutter

5. Laminated tempered double glazed glass or polycarbonate

6. Column, also part of gutter system

7. Water discharge opening

ANCHORED

Open   Semi-open   Closed

FREESTANDING

Open   Semi-open   Closed

Materials

STRUCTURE

High quality European all aluminum structure. The system can be upgraded for bigger spans with reinforced steel members

	Technical properties	Standards
Metal	11 gauge aluminum	
Finish	PE58 Qualicoat approved thermosetting powder coatings	
Weight	10 psf	
Width	16' span max. (no limit on number of sections)	
Projection	20' max. (single runner beam)	
Wind Resistance	135 mph	
Tensile strength Rm (N/mm2)	245 (min.)	TS EN ISO 6892-1
Yield point Rp 0,2 (N/mm2)	200 (min.)	TS EN ISO 6892-1
Elongation A (%)	10 (min.)	TS EN ISO 6892-1

Terra Brown	RAL 8028	Brown Beige	RAL 1011	Jet Black	RAL 9005	Mahogany Brown	RAL 8016
Pure White	RAL 9010	Grey	RAL 9006	Grey Beige	RAL 1019	Anthracite	RAL 7022

MOTOR

Altus® is suitable for pre- and post-construction opportunities and can be controlled with any Radio Technology Somfy accessory including hand-held remote controls, wireless wall switches and timers.

LT60 Altus RTS 6100R2
Technical properties

Voltage supply	120V AC, 60Hz / 220V AC, 50Hz
Limit switch type	Electronic RTS (remote controlled)
Torque	100 Nm (880 in. lbs.)
Rated current	3.8A
Speed	14 rpm
Sound level	≤ 67 dBA
Temperature working range	14°F to 104°F (-10°C to 40°C)

TELIS 4 and 16 RTS hand-held remote extends control up to 4 and 16 different channels within 65 feet of range.

DECOFLEX WIREFREE™ RTS is battery-powered and a completely wireless wall switch.

LIGHTS

SCHILDR sunrooms come with optional track LED spot lights

| **Outdoor track spot LED** |
| --- |
| **Technical properties** |

Operating voltage	12V AC
Color temperature	3,000K
LED type	MR16 7.5W SOL-Light
Dimmer	Magnetic Low Voltage
Body color	White or black
Transformer	300W (2x150W) Exterior
Adjustability	Rotates 360 degrees and tilts 180 degrees
Dimenions	2.36"W x 1.73"H x 3.37"D

Spot LED on adjustable track

GUILLOTINE SASH WINDOW/DOOR | MOTORIZED

Our unique vertically sliding glass system provides a panoramic view with the push of a button by retracting glass panels. Depending if you want a barrier or walk through the glass can either stack at the bottom or the top. Our Guillotine provides wonderful solutions for restaurants to make sure to utilize their outdoor space all year or for a residence who are trying to decide between a glass door or a glass wall.
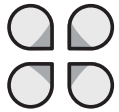
All Seasons	Resists bad weather	Fire retardant	Watertight	Remote controlled	Custom finishes

Applications
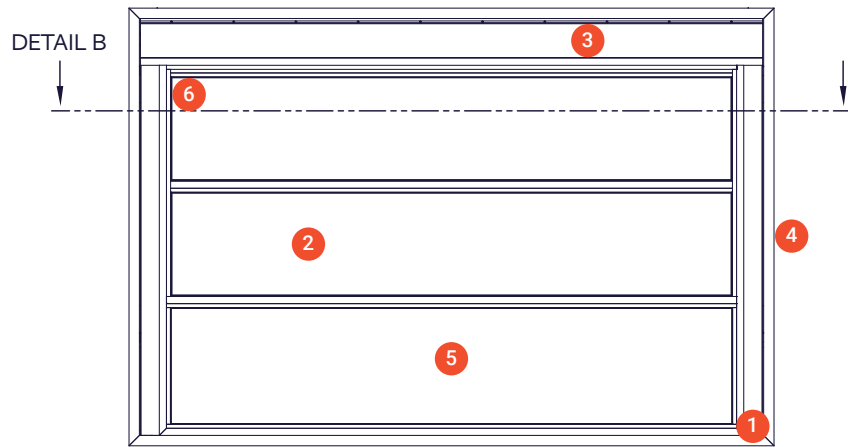
Patios, Decks, Porches, Balconies, Terraces, Verandas, Gardens, Room Partitions, Parapets, Restaurants, Hotels, and Rooftops
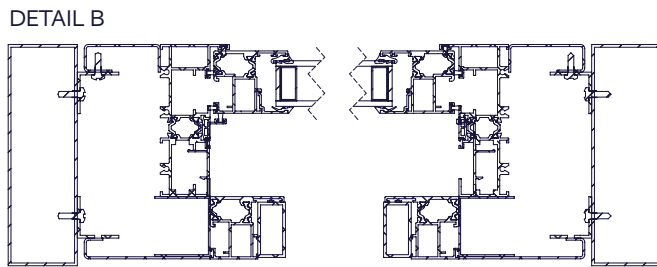
Design Specs

DETAIL B

1. All aluminum insulated frame with thermal breaks

2. Tempered low E double glazed or single pane glass

3. Motor housing

4. Mounted from the sides

5. Bottom sash that is stationary can be used as guard rail

6. Photocell safety sensors

DETAIL B

2 PANEL WINDOW

Open   Semi-open   Closed

3 PANEL WINDOW

Open   Semi-open   Closed

GLASS CONFIGURATION

Outer pane: Tinted Float Glass 1/4" Bronze
Cavity: 1/2" Cavity (Air)
Inner pane: Clear Float Glass 1/4" Clear

Daylight Properties (EN 410)	Daylight Transmittance	46%
	Daylight Reflectance Outdoor	8%
	Daylight Reflectance Indoor	12%
Solar Energy Properties (EN 410)	Solar Energy Direct Transmittance	39%
	Solar Energy Reflectance Outdoor	7%
	Solar Energy Absorption	54%
	(Solar Factor / g)	48%
	Shading Coefficient	0.55%
	UV Transmission	0.03%
Thermal Conductivity (EN 673)	U Value W/(m2K)	2.8%
Sound Insulation Value (EN 12758)	Rw (C; Ctr) dB	31 (-1; -4)

"Day Light" and "Solar Energy" properties are calculated in compliance with EN 410.

"U-value" is calculated according to EN 673. The emissivity measurement utilized to calculating comply with EN 673 (Annex A) and EN 12898.

Potential thermal stresses or relevant building codes may require the use of heat-treated glass. Specifications, technical as well as miscellaneous data bases on information, available at the time of the issuance of this document and are subject to change without any notice

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