ASPEN 15 WALL SCONCE

TECH LIGHTING

The Aspen outdoor wall sconce creates an elegant elongated column of beautifully diffused light. The Aspen is available in four sizes (8", 15", 26", 36") to meet architectural scale; ideal for wayfinding and general outdoor illumination. The Aspen features energy-efficient, fully dimmable integrated LED lamping. Available in two finishes, Bronze and Charcoal, and four sizes.

Outstanding protection against the elements:
- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing
- IP65 Rated

SPECIFICATIONS

DELIVERED LUMENS	648
WATTS	22
VOLTAGE	Universal 120-277V, with integral transient 2.5kV surge protection (driver)
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Wall
PERFORMANCE OPTIONS	In-Line Fuse / Surge Protector
CCT	2700K, 3000K
CRI	90+
COLOR BINNING	3 Step
BUG RATING	B0-U3-G1
DARK SKY	Non-compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	4.5 lbs.

ASPEN 15
shown in bronze

ASPEN 15
shown in charcoal

* Visit techlighting.com for specific warranty limitations and details.

ORDERING INFORMATION

PRODUCT	CRI / CCT	LENGTH	LENS	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS	
700OWASP	**927** 90 CRI, 2700K	**15** 15"	**D** DIFFUSE	**Z** BRONZE	**UNV** 120V-277V UNIVERSAL	**S** SYMMETRIC		NONE
	930 90 CRI, 3000K			**H** CHARCOAL			**LF**	IN-LINE FUSE
							SP	SURGE PROTECTION
							LFSP	IN-LINE FUSE & SURGE PROTECTION

ASPEN 15 WALL SCONCE

7.5"
191 mm

15"
381 mm

5"
127 mm

2.8"
71 mm

Aspen 15

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

ASPEN 15

Total Lumen Output:	648
Total Power:	22
Luminaire Efficacy:	29
Color Temp:	3000K
CRI:	90
BUG Rating:	B0-U3-G1

PROJECT INFO

FIXTURE TYPE & QUANTITY

JOB NAME & INFO

NOTES

TECH LIGHTING®

VISUAL COMFORT & CO.

7400 Linder Avenue, Skokie, Illinois 60077
T 847.410.4400

ASPEN 26 WALL SCONCE

TECH LIGHTING

The Aspen outdoor wall sconce creates an elegant elongated column of beautifully diffused light. The Aspen is available in four sizes (8", 15", 26", 36") to meet architectural scale; ideal for wayfinding and general outdoor illumination. The Aspen features energy-efficient, fully dimmable integrated LED lamping. Available in two finishes, Bronze and Charcoal, and four sizes.

Outstanding protection against the elements:
- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing
- IP65 Rated

SPECIFICATIONS

DELIVERED LUMENS	1060
WATTS	38
VOLTAGE	Universal 120-277V, with integral transient 2.5kV surge protection (driver)
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Wall
PERFORMANCE OPTIONS	In-Line Fuse / Surge Protector
CCT	2700K, 3000K
CRI	90+
COLOR BINNING	3 Step
BUG RATING	B0-U3-G1
DARK SKY	Non-compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	7 lbs.

* Visit techlighting.com for specific warranty limitations and details.

ASPEN 26
shown in charcoal

ASPEN 26
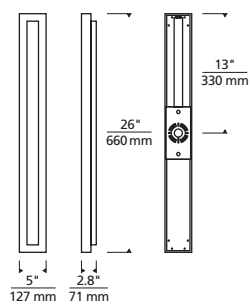shown in bronze

ORDERING INFORMATION

PRODUCT	CRI / CCT	LENGTH	LENS	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS	
700OWASP	**927** 90 CRI, 2700K	**26** 26"	**D** DIFFUSE	**Z** BRONZE	**UNV** 120V-277V UNIVERSAL	**S** SYMMETRIC		NONE
	930 90 CRI, 3000K			**H** CHARCOAL			**LF**	IN-LINE FUSE
							SP	SURGE PROTECTION
							LFSP	IN-LINE FUSE & SURGE PROTECTION

TECH LIGHTING

13"
330 mm

26"
660 mm

5"
127 mm

2.8"
71 mm

Aspen 26

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

ASPEN 26

Total Lumen Output:	1060
Total Power:	38
Luminaire Efficacy:	28
Color Temp:	3000K
CRI:	90
BUG Rating:	B0-U3-G1

PROJECT INFO

FIXTURE TYPE & QUANTITY

JOB NAME & INFO

NOTES

TECH LIGHTING

VISUAL COMFORT & CO.

techlighting.com

VERSA STAR LED (JUNCTION BOX)

DATE:	PROJECT:	TYPE: ✓

CATALOG NUMBER LOGIC:

*Requires magnetic low voltage dimmer.

**Please see Adjust-e-Lume photometry to determine desired intensity.

CATALOG NUMBER LOGIC
Example: B - VS - LED - e103 - WFL - A4 - BLW - 13 - 11
MATERIAL
(Blank) - Aluminum   B - Brass   S - Stainless Steel
INSTALLATION
(Blank) - Back Box
SERIES
VS - Versa Star
SOURCE
LED - with Integral Dimming Driver (25W min. load when dimmed)*
LED TYPE
✓ e100 - 5W LED/2700K   e102 - 5W LED/4000K
e101 - 5W LED/3000K   e103 - 5W LED/Amber
OPTICS
NSP - Narrow Spot (13°) ✓ MFL - Medium Flood (23°)
SP - Spot (16°)   WFL - Wide Flood (31°)
ADJUST-E-LUME OUTPUT INTENSITY
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1
FINISH (See page 2 for full-color swatches)
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
Also available in RAL Finishes
Brass Finishes (MAC, POL, MIT)
Stainless Steel Finishes (MAC, POL)
LENS TYPE
✓ 12 - Soft Focus   13 - Rectilinear
SHIELDING
11 - Honeycomb Baffle

B-K LIGHTING

MADE IN THE USA   559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

DATE:	PROJECT:	TYPE: ✓

CATALOG NUMBER LOGIC:

CATALOG NUMBER LOGIC
Example: GL - LED - e65 - A7 - BZP - G-6 - 6 - PP12 - TRe20 - ART

MATERIAL
(Blank) - Aluminum   B - Brass   S - Stainless Steel

SERIES
GL - Glow Star

SOURCE
LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE	
e64 - 7W LED/2700K	e66 - 7W LED/4000K
e65 - 7W LED/3000K	e74 - 7W LED/Amber

ADJUST-E-LUME OUTPUT INTENSITY**
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
Also available in RAL Finishes
Brass Finishes (MAC, POL, MIT)
Stainless Steel Finishes (MAC, POL)

STYLE
E
K, L
J, N1, P1, R1
G (Speficy graphic panel height: 4", 6", 9")

BASE HEIGHT
2" - with 1/2" Female Pipe Thread Base (Standard), 6", 12", 18", 24" - with Anchor Base

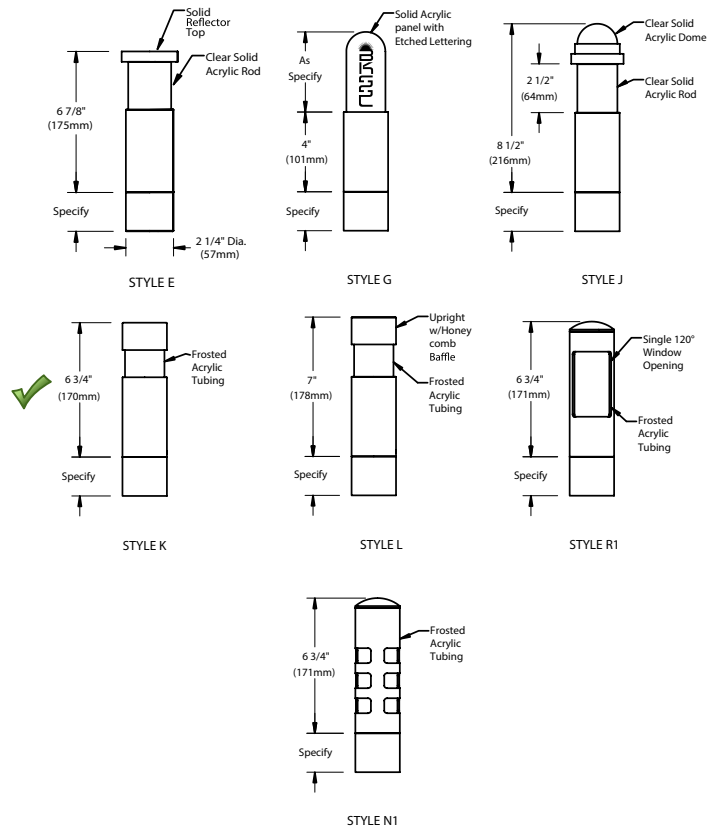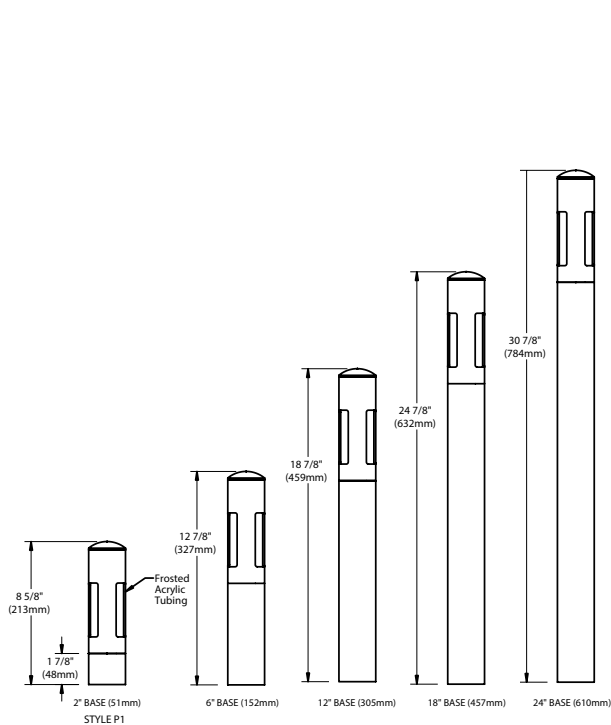| **MOUNTING OPTIONS** |
|---|
| For 2" Base Models |
| PP12B - 12" Power Pipe Stake with 'B' Cap |
| PP18B - 18" Power Pipe Stake with 'B' Cap |
| For 6", 12", 18", 24" Base Models |
| PP12 - 12" Power Pipe Stake |
| PP18 - 18" Power Pipe Stake |
| TRe20 - TRe20 Electronic Transformer (For use with LED fixtures)*** |
| SF - Stability Flange (For use with Power Pipe) |

OPTIONS
ART - Laser Engraved Graphics****

*Designed for use with 12 VAC. transformer. Requires magnetic low voltage dimmer.

**Please see Adjust-e-Lume photometry to determine desired intensity.

***105-300 VAC. 50/60 Hz. non-dimming.

****Available on style 'G' only. Requires vector based graphics file by others.

DATE: PROJECT: TYPE:

STYLE E   STYLE G   STYLE J

STYLE K   STYLE L   STYLE R1

STYLE N1

STYLE P1

2" BASE (51mm)   6" BASE (152mm)   12" BASE (305mm)   18" BASE (457mm)   24" BASE (610mm)

STANDARD FINISHES

- Satin Black (BLP)
- Satin Bronze (BZP)
- Satin White (WHP)
- Satin Aluminum (SAP)
- Black Wrinkle (BLW)
- Bronze Wrinkle (BZW)
- White Wrinkle (WHW)
- Verde (VER)

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

- Cascade Mtn. Granite (CMG)
- Rocky Mtn. Granite (RMG)
- Sierra Mtn Granite (SMG)
- Aleutian Mtn Granite (AMG)
- Textured Forest (TXF)
- Black Chrome (BCM)
- Beige (BGE)
- Weathered Copper (WCP)
- Old Copper (OCP)
- Hunter Green (HUG)
- Cracked Ice (CRI)
- Mojave Desert Sandstone (MDS)
- Antique Brass Powder (ABP)
- Brown Patina Powder (BPP)
- Sonoran Desert Sandstone (SDS)
- Weathered Iron (WIR)
- Clear Anodized Powder (CAP)
- Cream (CRM)
- Antique White (AQW)
- Natural Brass Powder (NBP)

03/03/2020 SKU-755
SUB000941

DATE: | PROJECT: | TYPE:

Accessories (Configure separately)

SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	WIRING	Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.
	TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers. Also available with optional integral, TRe20 electronic transformer. 105-300VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.
PHYSICAL	STYLE	Fully machined housing styles provide wide assortment of visual effects.
	MATERIALS	Furnished in copper-free aluminum (6061-T6). Style E is also available in brass (360) or stainless steel (316).
	BODY	Unibody design is fully machined from solid billet and provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal.
	LED	Integrated solid state system and modular design with electrical disconnects allows for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	INSTALLATION	2" base features 1/2" female pipe thread for mounting (hardware by others). 6-24" bases feature machined anchor base with 7/8" dia. slip conduit hole and three (3) 3/16" dia. anchor bolt holes (hardware by others). Available in standard increments to facilitate fixture elevation above grade. Optional 12" or 18" Power Pipe for direct burial into soil or concrete, which additionally features optional 6" diameter, molded stability flange to simplify installation and projects into substrate to reinforce housing stability.
	HARDWARE	Tamper-resistant, stainless steel hardware.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.

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LISTED

RoHS

MADE IN THE
USA

03/03/2020 SKU-755
SUB000941

DATE:	PROJECT:	TYPE:

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-10°F-130°F (-12°C-54°C)

	LM79 DATA			**L70 DATA**
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
e64	2700K	80	7	50,000
e65	3000K	80	7	50,000
e66	4000K	80	7	50,000
e74	Amber (590nm)	~	7	50,000

04/22/2020
SUB-2586-05

DATE: PROJECT: TYPE:

4 1/4" Dia.
(108mm)

3"
(76mm)

3/8"
(10mm)

Adjustable
Aiming Bracket

3 1/2" O.C.
(89mm)

5" Dia.
(127mm)

STANDARD FINISHES

Satin Black
(BLP)

Satin Bronze
(BZP)

Satin White
(WHP)

Satin Aluminum
(SAP)

Black Wrinkle
(BLW)

Bronze Wrinkle
(BZW)

White Wrinkle
(WHW)

Verde
(VER)

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

Cascade Mtn.
Granite (CMG)

Rocky Mtn.
Granite (RMG)

Sierra Mtn
Granite (SMG)

Aleutian Mtn
Granite (AMG)

Textured Forest
(TXF)

Black Chrome
(BCM)

Beige (BGE)

Weathered
Copper (WCP)

Old Copper
(OCP)

Hunter Green
(HUG)

Cracked Ice
(CRI)

Mojave Desert
Sandstone (MDS)

Antique Brass
Powder (ABP)

Brown Patina
Powder (BPP)

Sonoran Desert
Sandstone (SDS)

Weathered Iron
(WIR)

Clear Anodized
Powder (CAP)

Cream
(CRM)

Antique White
(AQW)

Natural Brass
Powder (NBP)

01/31/2020 SKU-771
SUB001016

DATE:	PROJECT:	TYPE:

Accessories (Configure separately)

TR Series   UPMRM

SPECIFICATIONS

ELECTRICAL	WATTAGE	5W LED
	ADJUST-E-LUME	Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	WIRING	Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BACK BOX	Round, 4-1/4" dia. x 3-1/8" deep construction with two (2) mounting tabs. Front access for wire connection and inspection. Provided with five (5) 1/2" NPS tapped holes and four (4) plugs. Suitable for concrete pour.
	FACEPLATE	Fully machined from solid billet. Countersunk holes provide for flush hardware mounting with two (2) tamper-resistant, stainless steel mounting screws. Stainless steel universal mounting ring for faceplate adjustment and 1/8" thick HT-805A silicone foam gasket with acrylic adhesive for water-tight seal. Accommodates one (1) lens or louver media.
	LENS	Shock resistant, tempered, glass lens is factory adhered to faceplate.
	LED	Integrated solid state system is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, overvoltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Spot (SP) = green; Medium Flood (MFL) = yellow; Flood (FL) = blue.
	AIMING & CONTROL	Adjustable optical bracket provides up to 24° vertical aiming.
	HARDWARE	Tamper-resistant, stainless steel hardware. Faceplate screws are black oxide treated for additional corrosion resistance.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP65 Rated. Made in the USA with sustainable processes.

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LISTED

RoHS

MADE IN THE
U S A

01/31/2020 SKU-771
SUB001016

DATE:	PROJECT:	TYPE:

CATALOG NUMBER LOGIC:

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	500mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

	LM79 DATA			L70 DATA	OPTICAL DATA		
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})	Angle	CBCP	Delivered Lumens
e100	2700K	80	5	50,000	13°	3938	309
	2700K	80	5	50,000	16°	2988	301
	2700K	80	5	50,000	23°	1134	269
	2700K	~	5	50,000	31°	743	271
e101	3000K	80	5	50,000	13°	4029	316
	3000K	80	5	50,000	16°	3056	308
	3000K	80	5	50,000	23°	1161	275
	3000K	~	5	50,000	31°	760	277
e102	4000K	80	5	50,000	13°	4527	355
	4000K	80	5	50,000	16°	3434	346
	4000K	80	5	50,000	23°	1304	309
	4000K	~	5	50,000	31°	854	311
e103	Amber (590nm)	~	5	50,000	~	~	~

OPTICS

Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°

Product Card

VETTA BUILDING TECHNOLOGIES INC.
"The evolution of windows and doors"

Elite 92 Timber and Timber/Aluminium Clad Windows

> FSC® (FSC® C003983)

Elite 92 Alu Quadrat
Triple glazing unit (outer view)

Elite 92 Alu Classic
Triple glazing unit (inner view)

Elite 92 Alu Quadrat
Triple glazing unit (inner view)

Water-tightness=720pa

Overall U-value = 0.95 W/m2K

Canadian Air = A3

Positive/negative Design Pressure=1920pa

All values are NFRC, please contact us for ISO values

Elite92

Product	Sokolka Alu-Timber tilt and turn windows and terrace doors manufactured to our standard sectional detail, complete range of inward opening windows, fixed frames, terrace doors

Construction

Wooden frame	Cross laminated timber – 3 or 4 layers in thickness. External layer solid (without finger joint) or laminated to length (finger joint). Timber frame 92mm; with aluminum clad 103,5mm.
Material	Timber types: pine, meranti and oak. Our windows are made of wood – a natural material of the best quality. The material is carefully selected and dried. Upon request, we put the FSC® (FSC®C0038983) logo on the products made of pine to confirm that the wood is traceable to a sustainably manged forest.
Aluminum cladding	Aluminum clads from outside. An aluminum cladding protects all external surfaces. A robust fixing system using synthetic clips ensures that the aluminum cladding is not in direct contact with the timber allowing ventilation and drainage in all necessary areas.
Glass unit	Triple with a warm TGI black spacer bar or Multitech black spacer bar, low-emission glass, available glass: safety laminated class 2b2, toughened, security class P2 and P4, selective – limiting the penetration of solar energy, reflexive, ornamental, opaque. • Triple glazed unit: up to - Ug=0,5 W/(m²K) - width 48mm
Parameters	Heat transfer coefficient: - triple glazed windows Uw=0,8 W/m²K Acoustic parameters Rw=33-42dB (depending on chosen glass unit)

Finish

Paint	- RAL palette colours - transparent colours with visible wood structure

Pine

Oak

Aluminum cladding	Powder coated in RAL colours + AKZO NOBEL Interpon Collection Futura 2018-2021

Fittings

Type	SIEGENIA TITAN AF, fittings with anti-burglary hook and micro-ventilation.
Optional	Hidden hinges SIEGENIA AXXENT 24, TBT - tilt before turn, anti-burglary fittings class RC2.
Opening options	Tilt&turn, turn, tilt, tilt&slide.
Additional functions	Opening restrictor, multi-level tilting, anti-burglary fittings, HAU TAU closing system allows to tilt upper sash from the floor level.

Accessories

Standard	Handles, micro ventilation, handle turning restrictor, anti-theft fittings hook, thermo drip cap, warm Thermix edge inside glass units.
Optional	Vents, bars, different kinds of glass, additional fittings options, balcony doors with low threshold, tilt & slide doors, accessories as sills, mosquito nets

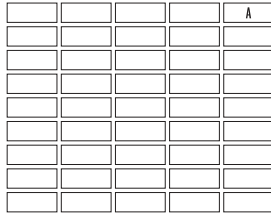| RAL 7023 | Betongrau | Concrete grey | Gris béton | Gris hormigón | Grigio calcestruzzo | Betongrijs |
RAL 7024	Graphitgrau	Graphite grey	Gris graphite	Gris grafita	Grigio grafite	Grafietgrijs
RAL 7026	Granitgrau	Granite grey	Gris granit	Gris granito	Grigio granito	Granietgrijs
RAL 7030	Steingrau	Stone grey	Gris pierre	Gris piedra	Grigio pietra	Steengrijs
RAL 7031	Blaugrau	Blue grey	Gris bleu	Gris azulado	Grigio bluastro	Blauwgrijs
RAL 7032	Kieselgrau	Pebble grey	Gris silex	Gris guijarro	Grigio ghiaia	Kiezelgrijs
RAL 7033	Zementgrau	Cement grey	Gris ciment	Gris cemento	Grigio cemento	Cementgrijs
RAL 7034	Gelbgrau	Yellow grey	Gris jaune	Gris amarillento	Grigio giallastro	Geelgrijs
RAL 7035	Lichtgrau	Light grey	Gris clair	Gris luminoso	Grigio luce	Lichtgrijs
RAL 7036	Platingrau	Platinum grey	Gris platine	Gris platino	Grigio platino	Platinagrijs
RAL 7037	Staubgrau	Dusty grey	Gris poussière	Gris polvo	Grigio polvere	Stofgrijs
RAL 7038	Achatgrau	Agate grey	Gris agate	Gris ágata	Grigio agata	Agaatgrijs
RAL 7039	Quarzgrau	Quartz grey	Gris quartz	Gris cuarzo	Grigio quarzo	Kwartsgrijs
RAL 7040	Fenstergrau	Window grey	Gris fenêtre	Gris ventana	Grigio finestra	Venstergrijs
RAL 7042	Verkehrsgrau A	Traffic grey A	Gris signalisation A	Gris tráfico A	Grigio traffico A	Verkeesgrijs A
RAL 7043	Verkehrsgrau B	Traffic grey B	Gris signalisation B	Gris tráfico B	Grigio traffico B	Verkeersgrijs B
RAL 7044	Seidengrau	Silk grey	Gris soie	Gris seda	Grigio seta	Zijdegrijs
RAL 7045	Telegrau 1	Telegrey 1	Telegris 1	Gris tele 1	Tele grigio 1	Telegrijs 1
RAL 7046	Telegrau 2	Telegrey 2	Telegris 2	Gris tele 2	Tele grigio 2	Telegrijs 2
RAL 7047	Telegrau 4	Telegrey 4	Telegris 4	Gris tele 4	Tele grigio 4	Telegrijs 4

VICTORIEN 60 mm

DESCRIPTION: Paver **TEXTURE:** Smooth

PALLET OVERVIEW
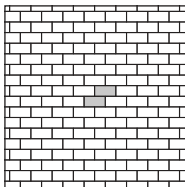

A

NOTES

See page 60 to 62 for more technical information.

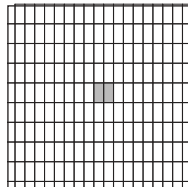See page 29 for more information about applications.

Specifications per pallet		Imperial	Metric
60 mm	Cubing	**123.70 ft²**	11.50 m²
	Approx. Weight	3 481 lbs	1 579 kg
	Number of rows	11	
	Coverage per row	11.25 ft²	1.05 m²
	Linear coverage per row — Depth	15.87 lin. ft	4.84 lin. m
	Length	31.74 lin. ft	9.68 lin. m

Unit dimensions	in	mm	Units/pallet
Height	2 ⅜	60	495 units
Width	4 ¼	108	4 units/ft²
Length	8 ½	216	43.10 units/m²

01 | Linear pattern	02 | Linear pattern	05 | Parquet pattern	06 | Herringbone pattern	07 | Herringbone pattern

Patterns are for design inspiration only. The installer is responsible to calculate & purchase the correct amount of material.
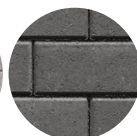
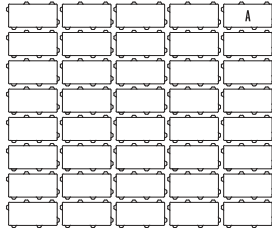Chocolate Brown   Shale Grey   Onyx Black

VICTORIEN 60 mm PERMEABLE

DESCRIPTION: Paver **TEXTURE:** Smooth

PALLET OVERVIEW

Permeable pavers let storm water drain away and help manage excess runoff. They also smooth the path to obtaining LEED® certification.

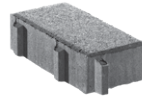## NOTES

See page 99 to 104 for more technical information.

See page 29 for more information about applications.

JOINT WIDTH: 3/8" (10 mm)
% OF SURFACE OPENING: 9.6 %
INFILTRATOIN RATE: 909 in./hr
(23 085 mm/hr)

Specifications per pallet		Imperial	Metric
60 mm PERMEABLE Cubing		**110.22 ft²**	10.24 m²
Approx. Weight		2 888 lbs	1 310 kg
Number of rows		11	
Coverage per row		10.02 ft²	0.93 m²
Linear coverage per row	Depth	15.87 lin. ft	4.84 lin. m
	Length	31.74 lin. ft	9.68 lin. m

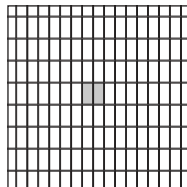|		Unit dimensions	in	mm	Units/pallet
A	Height		2 ⅜	60	440 units
	Width		4 ¼	108	
	Length		8 ½	216	

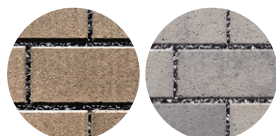| 01 | Linear pattern	02 | Linear pattern	03 | Linear pattern	04 | Linear pattern	05 | Parquet pattern

Patterns are for design inspiration only. The installer is responsible to calculate & purchase the correct amount of material.
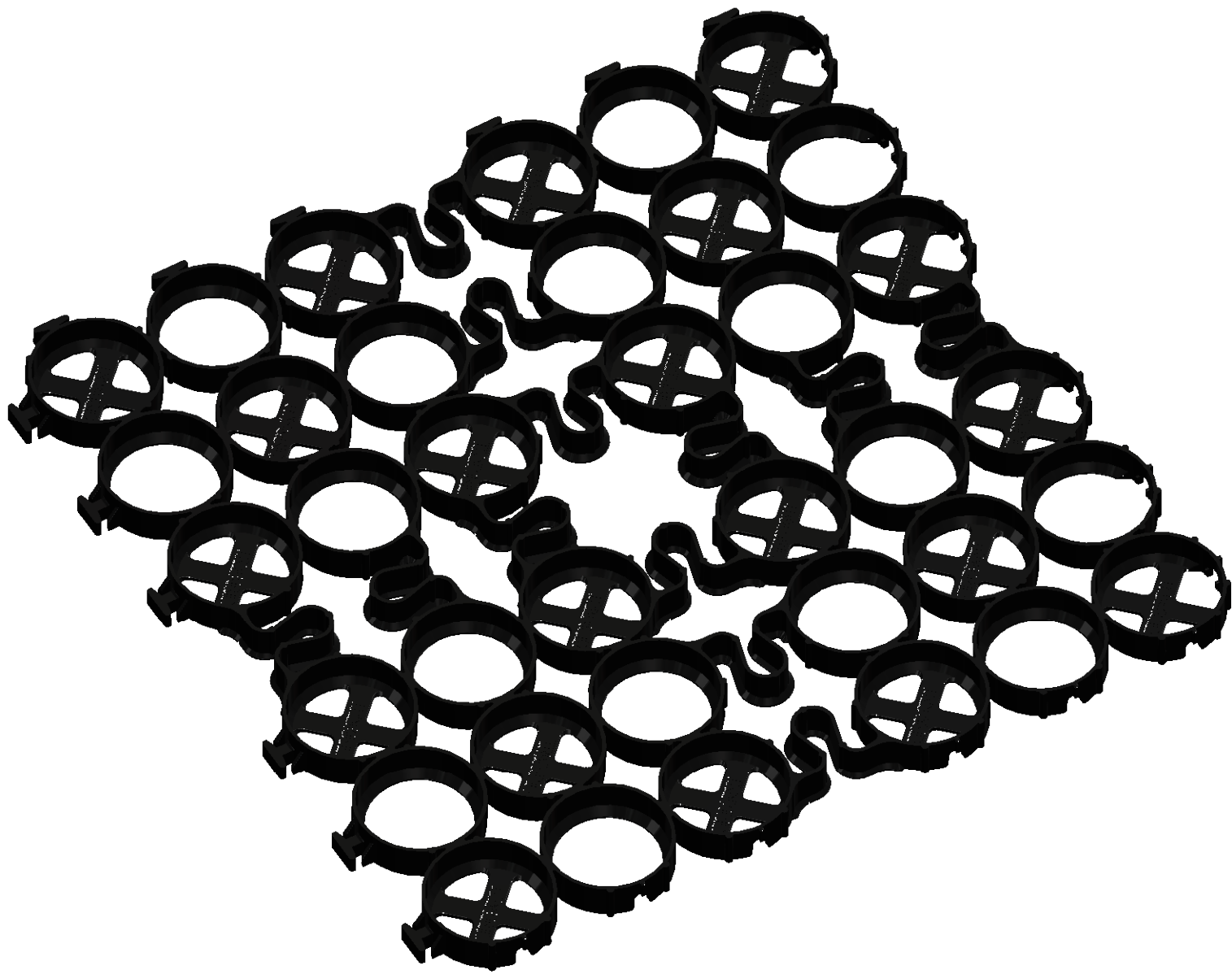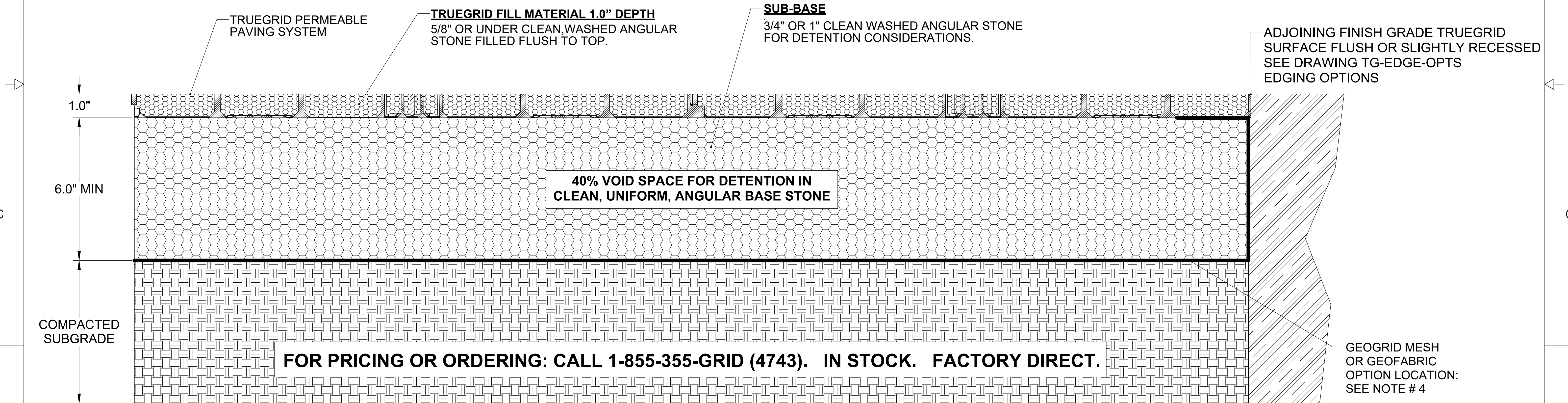
Chestnut Brown   Shale Grey

NOTES:

1. SUB-BASE DEPTH AND PREPARATION IS DEPENDENT ON SITE CONDITIONS PLUS LOADING REQUIREMENTS.

2. TRUEGRID PRO LITE PRODUCTS ARE SUFFICIENTLY RATED FOR LOW TRAFFIC H-20/HS-20 LOADING.

3. GEOGRID MESH OR GEOFABRIC MAY BE REQUIRED BETWEEN SUB-GRADE & SUB-BASE FOR CERTAIN SOILS AND SITE SPECIFIC REQUIREMENTS.

4. INCREASE SUB-BASE DEPTH FOR INCREASED STORM WATER DETENTION.

5. NO STAKING NECESSARY WITH TRUEGRID PRO LITE WHEN SLOPE IS BELOW 20 DEGREE, ASSESS PROJECT AS NEEDED.

6. TRUEGRID PRO LITE IS ADA COMPLIANT WITH PROPER FILL MATERIAL.

7. FINAL ENGINEERED CROSS SECTION AGGREGATES AND DEPTH SHOULD ALLOW FOR EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS AND LOAD REQUIREMENTS.

8. THIS CROSS SECTION IS FOR INFORMATION ONLY.

TRUEGRID BLOCK REFERENCE VIEW

PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. RECONFIGURED AS NEEDED. NO EXTRA TOOLING OR ACCESSORIES REQUIRED

TRUEGRID PERMEABLE PAVING SYSTEM

TRUEGRID FILL MATERIAL 1.0" DEPTH
5/8" OR UNDER CLEAN,WASHED ANGULAR STONE FILLED FLUSH TO TOP.

SUB-BASE
3/4" OR 1" CLEAN WASHED ANGULAR STONE FOR DETENTION CONSIDERATIONS.

ADJOINING FINISH GRADE TRUEGRID SURFACE FLUSH OR SLIGHTLY RECESSED SEE DRAWING TG-EDGE-OPTS EDGING OPTIONS

1.0"

6.0" MIN

40% VOID SPACE FOR DETENTION IN CLEAN, UNIFORM, ANGULAR BASE STONE

COMPACTED SUBGRADE

GEOGRID MESH OR GEOFABRIC OPTION LOCATION: SEE NOTE # 4

FOR PRICING OR ORDERING: CALL 1-855-355-GRID (4743).   IN STOCK.   FACTORY DIRECT.

GRAVEL FILL - HEAVY LOAD

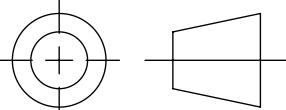### APPLICATION EXAMPLES:
DRIVEWAYS
RV PADS
OVERFLOW PARKING

CLIENT / PROJECT

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES

PROPRIETARY DESIGN RIGHTS NOTICE: THIS DESIGN WAS ORIGINATED BY AND IS THE EXCLUSIVE PROPERTY OF TRUEGRID. IT IS DISCLOSED IN CONFIDENCE WITH THEUNDERSTANDING THAT NO REPRODUCTIONOR OTHER USE OF THE INFORMATION ISAUTHORIZED WITHOUT SPECIFIC AGREEMENT IN WRITING BY TRUEGRID.

DO NOT SCALE DRAWING

APPROVAL INFORMATION

DRAWN BY: J. Thethy	DATE: 9/2/2019		TRUEGRID PRO LITE GRAVEL FILL HEAVY LOAD	
CHECKED BY: J. Thethy	DATE: 9/3/2019			
APPROVED BY: C. White	DATE: 9/3/2019	SIZE D	DRAWING NUMBER: TG-LTE-GRV-HL	REV 00
WEIGHT:		SCALE 1:2		SHEET 1 OF 1

TRUEGRID®
True to your project. True to the environment.

REV								
00	ORIGINAL ISSUE				JT	JT	CW	9/3/2019
REV					DRAWN	CHECKED	APPROVED	DATE

REVISION

Benefits

Specs

Quote
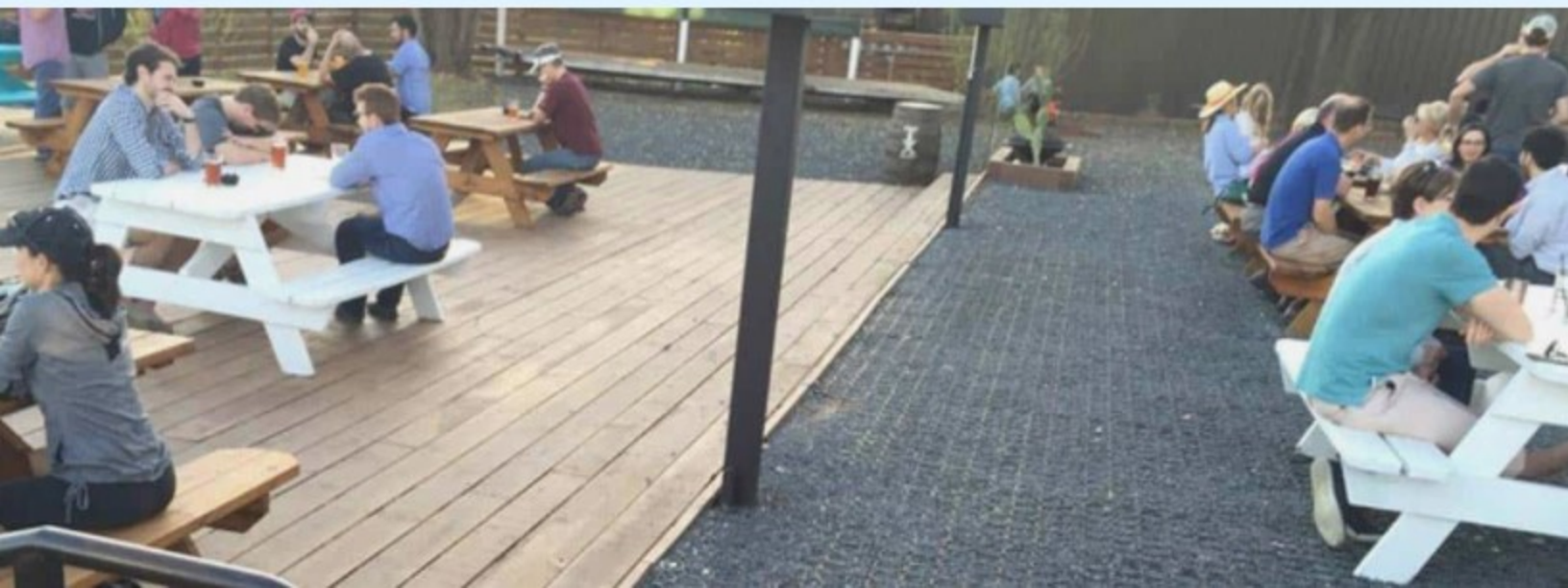
PERVIOUS COVER

Get 100% pervious cover credit by using TRUEGRID® PRO LITE instead of asphalt or concrete. By preventing gravel from compacting, PRO LITE remains permeable to rainwater, which also may be detained in the subbase. Eliminate runoff and reduce flood risk.

GROUND STABILIZATION

No more mud, ruts or erosion when TRUEGRID® is used to stabilize your grass or gravel application.
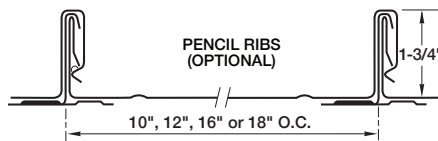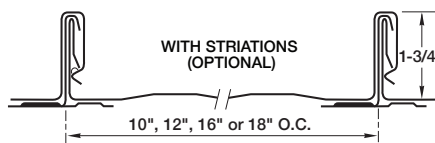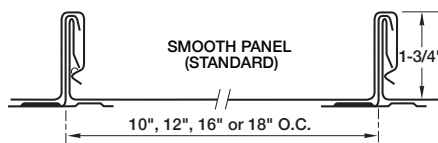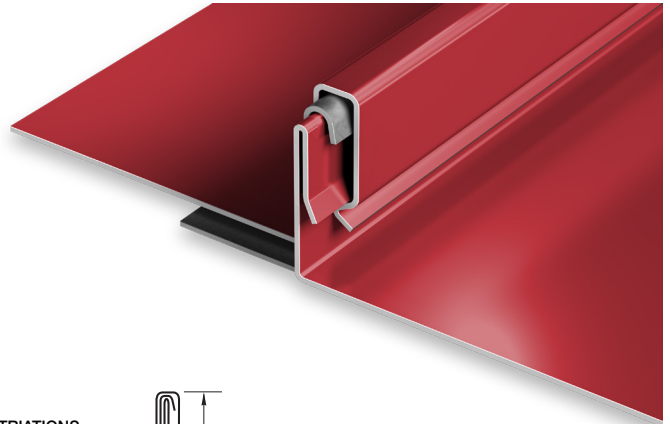
SNAP-CLAD PANEL

MATERIALS
.032 aluminum   24 gauge steel
.040 aluminum   22 gauge steel

SPECS
10", 12", 16" or 18" O.C.   1-3/4" High

UL-90

SMOOTH PANEL (STANDARD) — 1-3/4'
10", 12", 16" or 18" O.C.

WITH STRIATIONS (OPTIONAL) — 1-3/4'
10", 12", 16" or 18" O.C.

PENCIL RIBS (OPTIONAL) — 1-3/4'
10", 12", 16" or 18" O.C.

PRODUCT FEATURES
▸ Architectural/structural panel
▸ Factory-applied sealant available
▸ Continuous interlock
▸ Labor-saving one-piece design
▸ Pencil ribs upon request
▸ Striations upon request
▸ Factory eave notching available
▸ 30-year-non-prorated finish warranty
▸ Maximum factory-produced panel length is 64' (check w/factory for longer lengths)
▸ Weathertightness warranty available

▸ 43 stocked colors (24 gauge steel)
▸ 16 Stocked colors (22 gauge steel)
▸ 36 stocked colors (.032 aluminum)
▸ 22 stocked colors (.040 aluminum)
▸ Panels available in Galvalume Plus

UL CLASSIFICATION
▸ UL-580 Class 90 wind uplift
▸ UL-1897 wind uplift
▸ UL-790 Class A fire rated
▸ UL-263 fire resistance rated
▸ UL-2218 impact resistance rated

▸ UL-90 rated aluminum panel up to 16" O.C.
▸ UL-90 rated steel panel up to 18" O.C.

ASTM TESTS
▸ ASTM E1592 tested
▸ ASTM E283/1680 tested
▸ ASTM E331/1646 tested

FLORIDA BUILDING & MIAMI-DADE PRODUCT APPROVALS
Please refer to pac-clad.com or your local factory for specific product approval numbers for Snap-Clad.

Note: UL 90 is available on steel panels up to 18" on center, and on aluminum panels up to 16" on center.

Standard Colors

▲★ PATINA GREEN	▲★ TEAL	▲★ HEMLOCK GREEN	FOREST GREEN	HARTFORD GREEN
▲★ EVERGREEN	▲★ HUNTER GREEN	▲★ ARCADIA GREEN	▲★ MILITARY BLUE	BERKSHIRE BLUE
✓ ▲ GRAPHITE	▲★ CHARCOAL	INTERSTATE BLUE	▲★ SLATE BLUE	AWARD BLUE
MATTE BLACK STEEL / BLACK ALUMINUM	▲★ DARK BRONZE	▲ BURNISHED SLATE	▲ AGED BRONZE	▲★ MEDIUM BRONZE
▲★ MANSARD BROWN	BURGUNDY	▲★ TERRA COTTA	▲★ CARDINAL RED	▲★ COLONIAL RED
MIDNIGHT BRONZE	▲★ MUSKET GRAY	▲★ SIERRA TAN	▲★ SANDSTONE	▲★ ALMOND
▲★ SLATE GRAY	▲★ CITYSCAPE	▲★ GRANITE	▲★ STONE WHITE	▲★ BONE WHITE

PAC-CLAD®

PETERSEN

A CARLISLE COMPANY

PAC-CLAD.COM

IL: 800 PAC CLAD **TX:** 800 441 8661 **MD:** 800 344 1400
AZ: 833 750 1935 **GA:** 800 272 4482 **MN:** 877 571 2025

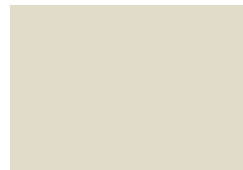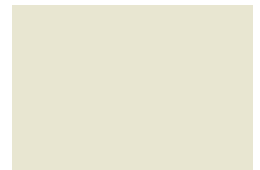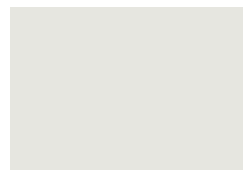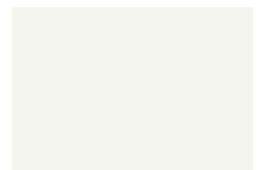| PAC-CLAD STANDARD COLORS	REFLECTIVITY	EMISSIVITY	3 YEAR EXPOSURE	SRI	STEEL 24 GA.	STEEL 22 GA.	ALUMINUM .032	ALUMINUM .040	ALUMINUM .050	ALUMINUM .063	20-IN. COIL 24 GA.	20-IN. COIL .032	ENERGY STAR
AGED BRONZE	0.29	0.87	0.27	29	✓								
ALMOND	0.56	0.86	0.55	65	✓	✓	✓	✓	✓		✓		★
ARCADIA GREEN	0.29	0.87	0.29	29	✓		✓						★
AWARD BLUE***	0.24	0.86	0.23	22	✓		✓		✓				
BERKSHIRE BLUE*	0.30	0.87	0.27	31	✓								
BLACK ALUMINUM**	0.04	0.89	0.04	-2			✓	✓	✓	✓			
BONE WHITE	0.70	0.86	0.69	85	✓	✓	✓	✓	✓	✓	✓	✓	★
BURGUNDY	0.14	0.85	0.13	9	✓		✓		✓				
BURNISHED SLATE	0.32	0.87	0.31	33	✓								
CARDINAL RED***	0.44	0.86	0.44	49	✓		✓		✓				★
CHARCOAL	0.30	0.86	0.30	30	✓		✓	✓	✓		✓	✓	★
CITYSCAPE	0.49	0.86	0.50	56	✓	✓	✓		✓		✓	✓	★
COLONIAL RED	0.31	0.86	0.31	31	✓		✓		✓				★
DARK BRONZE	0.29	0.86	0.29	29	✓	✓	✓	✓	✓	✓	✓	✓	★
EVERGREEN	0.28	0.86	0.26	27	✓								★
FOREST GREEN	0.10	0.86	0.10	4	✓	✓	✓						
GRANITE*	0.33	0.87	0.33	34	✓		✓						★
GRAPHITE	0.29	0.87	0.28	29	✓								
HARTFORD GREEN	0.08	0.88	0.08	3	✓		✓						
HEMLOCK GREEN	0.31	0.87	0.30	32	✓		✓						★
HUNTER GREEN	0.28	0.86	0.27	27	✓		✓						★
INTERSTATE BLUE	0.16	0.87	0.15	12	✓								
MANSARD BROWN	0.31	0.86	0.31	31	✓		✓	✓					★
MATTE BLACK STEEL**	0.26	0.86	0.25	25	✓	✓					✓		
MEDIUM BRONZE	0.30	0.87	0.29	31	✓	✓	✓	✓	✓	✓	✓	✓	★
MIDNIGHT BRONZE	0.06	0.87	0.06	0	✓				✓				
MILITARY BLUE	0.31	0.86	0.30	31	✓		✓						★
MUSKET GRAY	0.32	0.86	0.31	33	✓	✓	✓		✓				★
PATINA GREEN	0.33	0.86	0.32	34	✓		✓						★
SANDSTONE	0.48	0.86	0.48	54	✓	✓	✓	✓	✓	✓	✓	✓	★
SIERRA TAN	0.32	0.82	0.31	31	✓		✓	✓	✓		✓		★
SLATE BLUE	0.28	0.86	0.27	27	✓		✓						★
SLATE GRAY	0.38	0.86	0.37	41	✓	✓	✓		✓		✓	✓	★
STONE WHITE	0.69	0.86	0.67	84	✓	✓	✓	✓	✓	✓	✓	✓	★
TEAL	0.32	0.86	0.32	33	✓		✓						★
TERRA COTTA	0.34	0.87	0.33	36	✓		✓		✓				★
PAC-CLAD PREMIUM COLORS													
AGED COPPER	0.55	0.80	0.53	62	✓		✓						★
ANODIC CLEAR	0.32	0.83	0.31	31				✓					
CHAMPAGNE	0.50	0.85	0.49	57	✓		✓	✓	✓				★
COPPER PENNY	0.52	0.81	0.52	58	✓		✓	✓	✓		✓		★
SILVER	0.47	0.87	0.46	53	✓	✓	✓	✓	✓		✓	✓	★
SILVERSMITH	0.32	0.88	0.32	34				✓					
WEATHERED COPPER	0.45	0.88	N/A	51	✓								
WEATHERED STEEL	0.32	0.89	N/A	34	✓								
WEATHERED ZINC	0.48	0.82	0.46	53	✓	✓	✓		✓				★
ZINC	0.42	0.82	0.38	45	✓		✓	✓	✓				★
CLEAR-COAT ACRYLIC FINISH (NON-KYNAR)													
GALVALUME PLUS	0.68	0.14	0.55	57	✓	✓					✓		★

PAC-CLAD Premium finishes are available from stock at a moderate extra cost. PAC-CLAD Copper Penny is a Non-Weathering finish. Solar Reflectance Index calculated according to ASTM E-1980.

*Low Gloss/Low Sheen, 70% PVDF finish ** Appearance differs for Black Aluminum and Matte Black Steel *** 10-year finish warranty

ENERGY STAR PERFORMANCE CRITERIA:
Emissivity uses ASTM C1371 Reflectivity uses ASTM C1549.

TECHNICAL DATA FOR KYNAR 500/HYLAR 5000 COATING:
- South Florida Exposure: Color (ASTM D 2244) - No more than 5ΔE Hunter units at 20 years; Chalk (ASTM D 4214) – Rating no less than 8 at 20 years; Film integrity – 20 years.
- Accelerated Weathering (ASTM D 4587, ASTM G 154): 5000 Hours; Chalk, per ASTM D 4214, rating of 6 or better; Color, per ASTM D 2244, < 5ΔE (Hunter Units) color change.
- Humidity Resistance (ASTM D 2247): Galvalume or HDG, 100% RH, 2000 hours – No field blisters; Aluminum, 100% RH, 3000 hours – No field blisters
- Salt Spray Resistance (ASTM B 117): Aluminum, 3000 hours, Galvalume or HDG, 1000 hours – Creep from scribe no more than 1/16", no field blisters
- Chemical/Acid Pollution Resistance (ASTM D 1308): Pass
- T-Bend (ASTM D 4145): 1T – 3T with no loss of adhesion
- Pencil hardness (ASTM D 3363): HB – 2H
- Specular Gloss (ASTM D 523) @ 60 degrees: Typical – 20 – 35
- Abrasion Resistance (ASTM D 968): 67 +/- 10 liters
- Cross Hatch Adhesion (ASTM D 3359): No loss of adhesion
- Reverse Impact (ASTM D 2794): Galvalume or HDG, 2x metal thickness inch-pounds, no loss of adhesion; Aluminum, 1.5x metal thickness inch-pounds, no loss of adhesion
- Flame Test (ASTM E 84): Class A Coating

PAC-CLAD is a registered trademark of Petersen Aluminum Corp. Kynar 500 is a registered trademark of Arkema Inc. Hylar 5000 is a registered trademark of Solvay Solexis. 2/21