

ASG3000G Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Double Lock Metal Standing Seam
ASG3000G-U-AL
- New / Existing Single Lock Metal Standing Seam
ASG3000G-T-AL
- New / Existing Snap Lock Metal Standing Seam
ASG3000G-U-AL
- New / Existing Bulb Seam Metal Standing Seam
ASG3000G-Z2-AL
- New / Existing Tee Seam Metal Standing Seam
ASG3000G-T2-AL



AVAILABLE MATERIALS

- Aluminum and Aluminum Accessories (AL)

AVAILABLE FINISHES

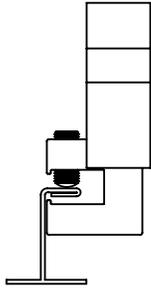
- Mill Finish
- Powder Coating (additional charge) using RAL
TIGER Drylac® Exterior colors



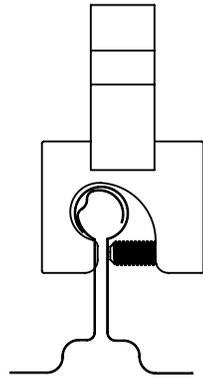
FEATURES/ADVANTAGES

- Milled Aluminum Construction
- Clamp measures 2" L x 1 ½" W
- Utilizes oval-point set screws
- Configurations available for both vertical seams and horizontal seams
- Accepts 1" OD Pipe (Tubing)
- Compatible with the use of Ice Flags and Ice Screens
- Internal and External Couplings, End Collars and End Caps are available for this system
- Oval point set screws will provide a secure attachment point without penetrating roofing materials
- Clamp-to-Seam technology will not void panel manufacturers warranties
- Ideal option for installing a pipe-style snow guard system to a metal standing seam roof

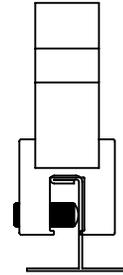
ASG3000 SEAM CONFIGURATIONS



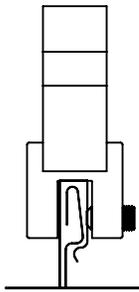
ASG3000G-T-AL
Single Lock 5/8" or Greater Seam Width



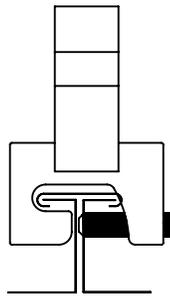
ASG3000G-Z2-AL
Bulb Seam



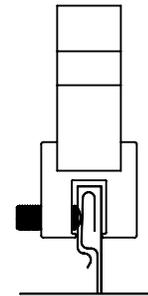
ASG3000G-U-AL
Single Lock 13/32" or Less Seam Width



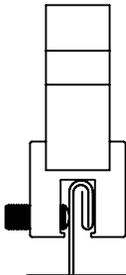
ASG3000G-U-AL Milled
Snap Lock 7/16"-33/64" Seam Width



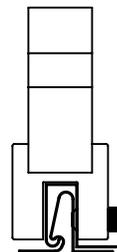
ASG3000G-T2-AL
Tee Seam 1" Seam Width



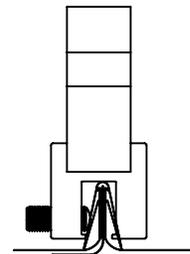
ASG3000G-U-AL
Snap Lock 7/16" or Less Seam Width



ASG3000G-U-AL
Double Lock



ASG3000G-U-AL Milled
Vertical Nail Flange 33/64" or Less Seam Width



ASG3000G-U-AL
Applied Batten Cap



289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:3

6/1/2022

Cut Sheet - ASG3000G-U-AL

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.
6. For patent information, visit our Patent Page.

I have verified that this clamp/bracket will fit the seam for this project.

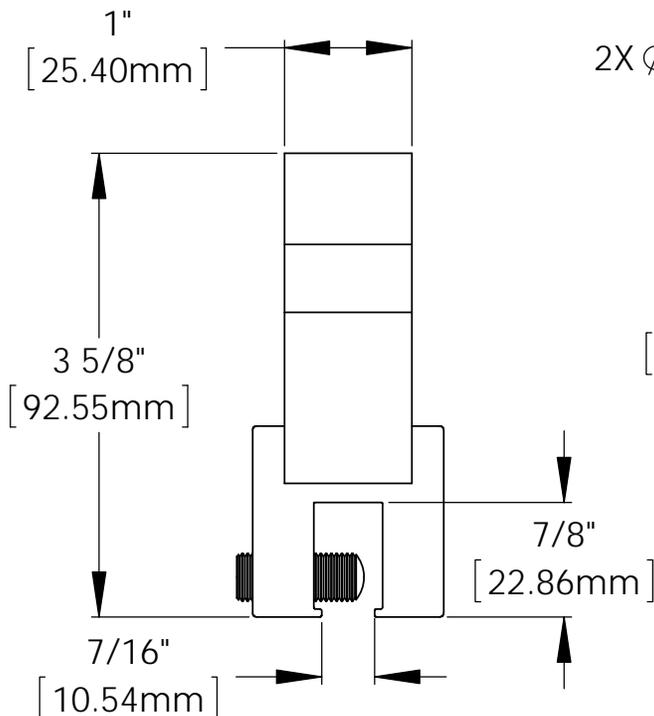
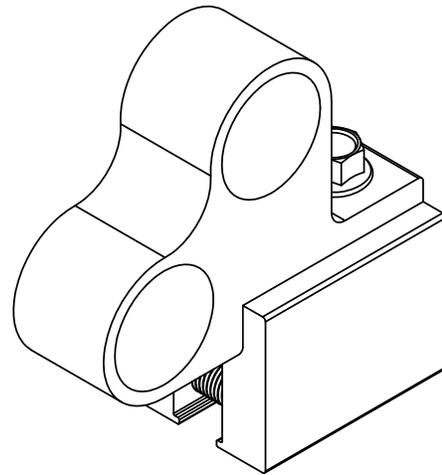
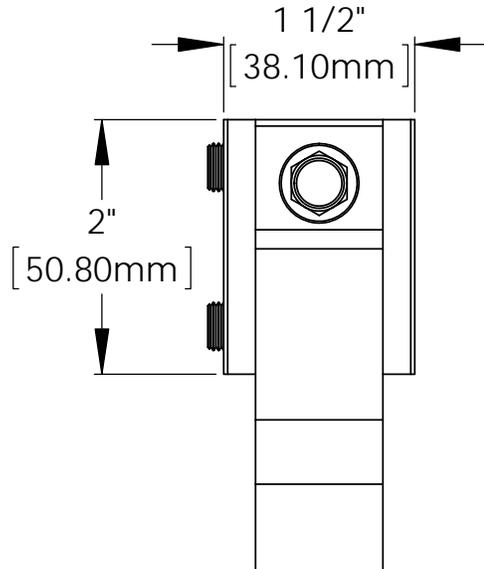
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Signature: _____ Date: _____

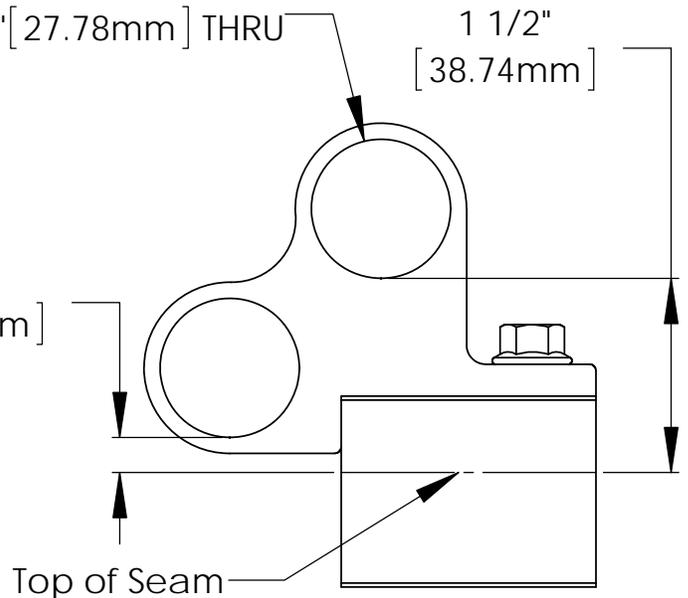
To confirm order, return signed cut sheet and sales quote.

Available Finishes

- Mill Finish
- Powder Coating (RAL Tiger Drylac
Color Code: _____)



2X ϕ 1 1/8" [27.78mm] THRU



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Phone: 1.888.766.4273
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Email: Info@alpinesnowguards.com

Scale: 2:3

10/5/2020

Cut Sheet - ASG3000G-U-AL MILLED

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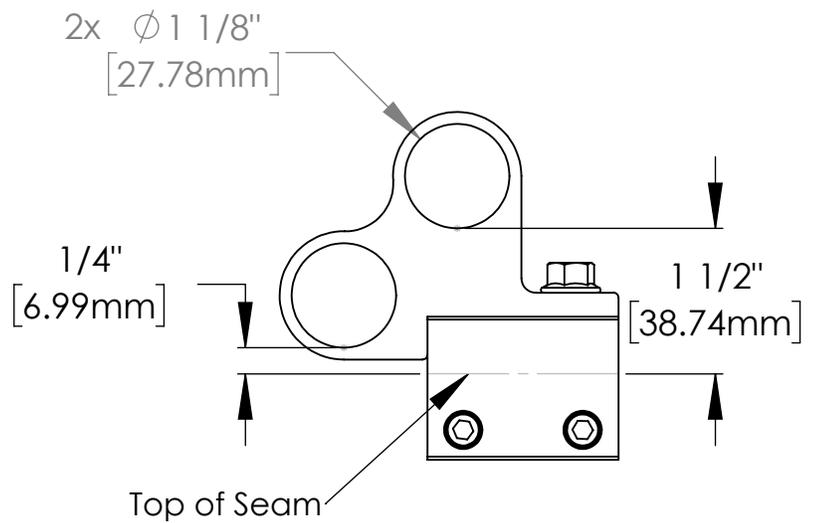
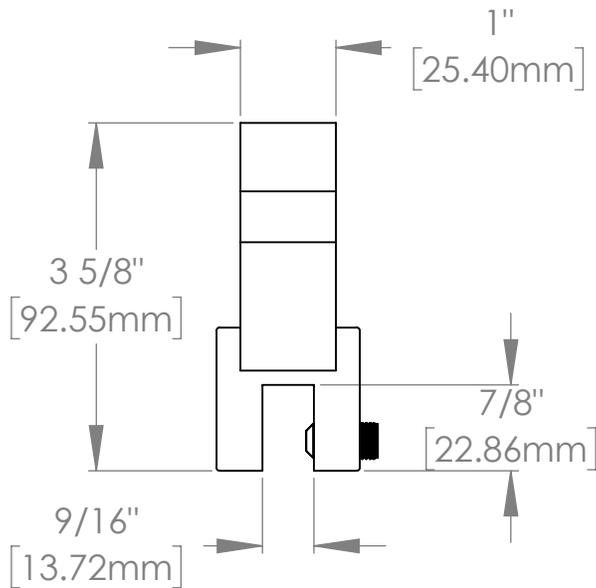
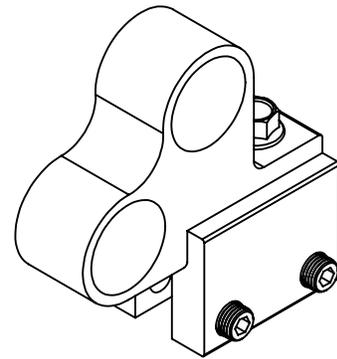
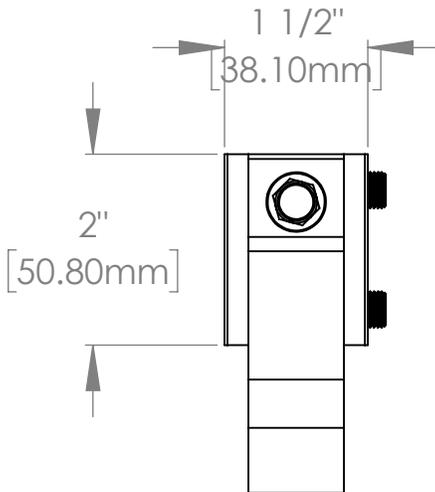
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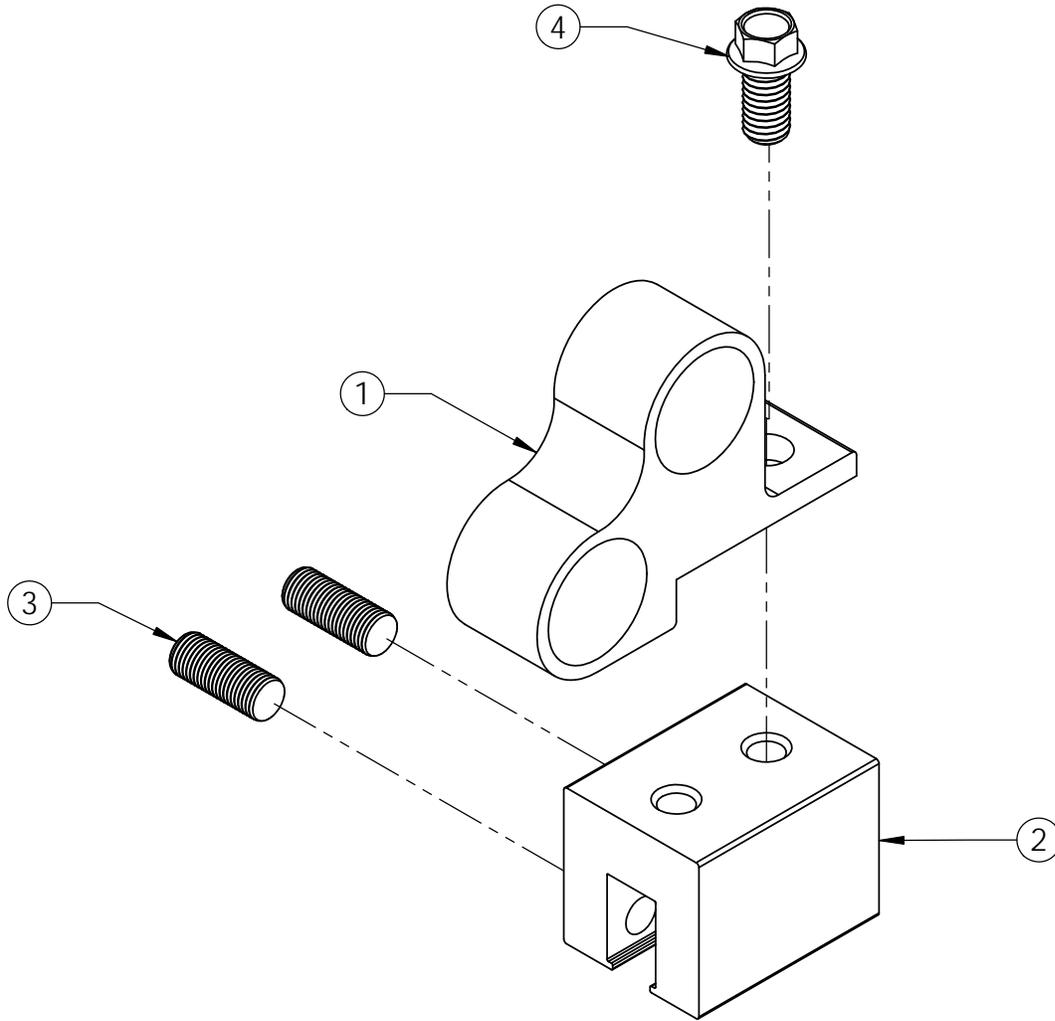
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Scale: 1:2

1/6/2022

Assembly Sheet - ASG3000G-U-AL

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4. Do not scale drawings.
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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	PP3000AL-BRKT	3000 2 PP AL BRKT 6063T6 MLL	1
2	ASGU2-AL	2" UTILITY BLOCK SSR-AL	1
3	SET-0 SS-.375-24X1	SS SET SCREW OP .3750-24X1 (INCLUDED IN POLY KIT ASG SET SCREW)	2
4	B-FL SS-.375-16X.75	SS FLANGE BOLT .3750-16X.75 (INCLUDED IN POLY KIT ASG U2)	1



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Scale: 2:3

10/5/2020

Cut Sheet - ASG3000G-T-AL

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2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
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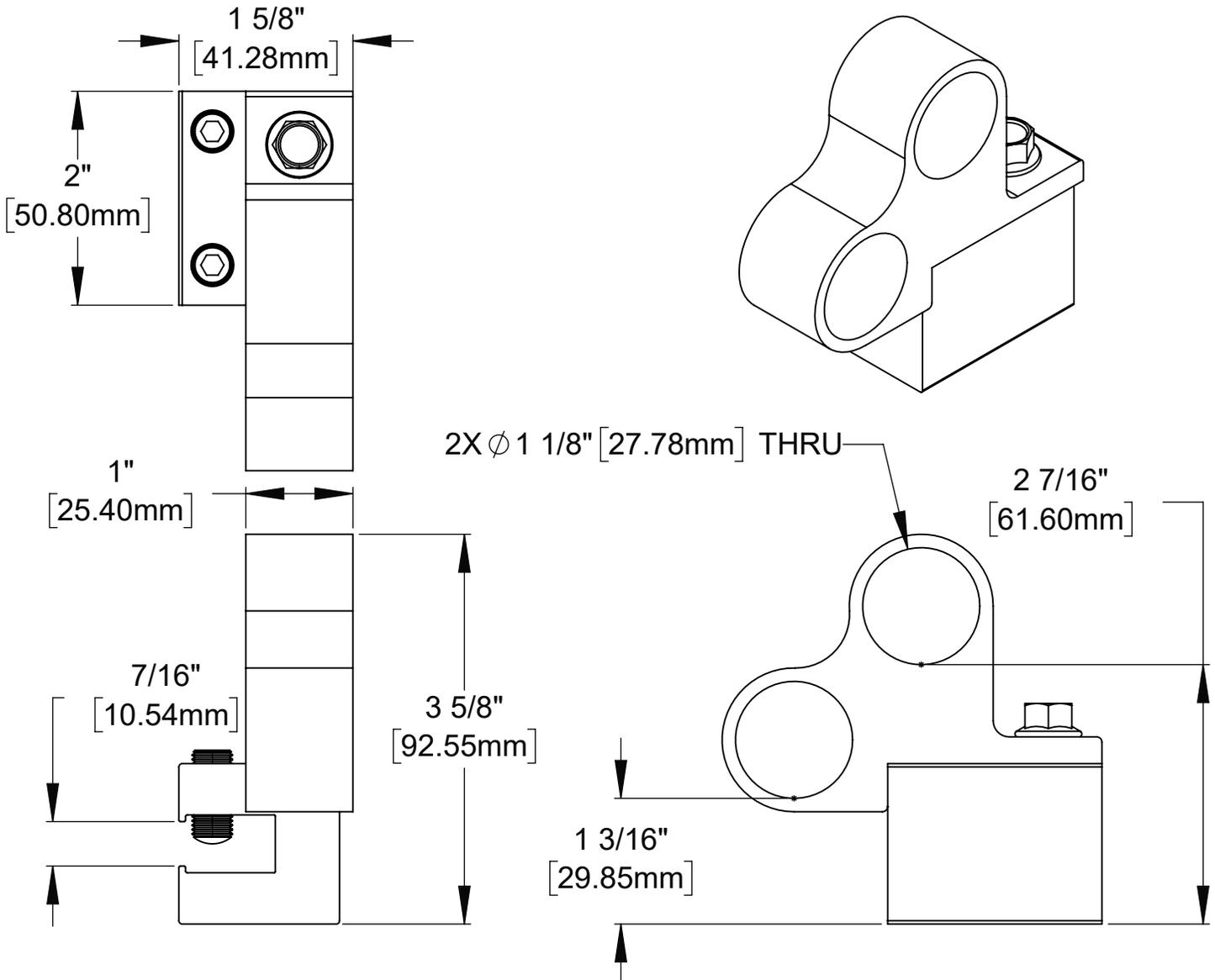
Quote #: _____

Signature: _____
Date: _____

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Color Code: _____)



NOTE: SINGLE LOCK SEAMS MUST HAVE A HORIZONTAL LEG MEASUREMENT OF 5/8" OR GREATER FOR CLAMP TO ATTACH



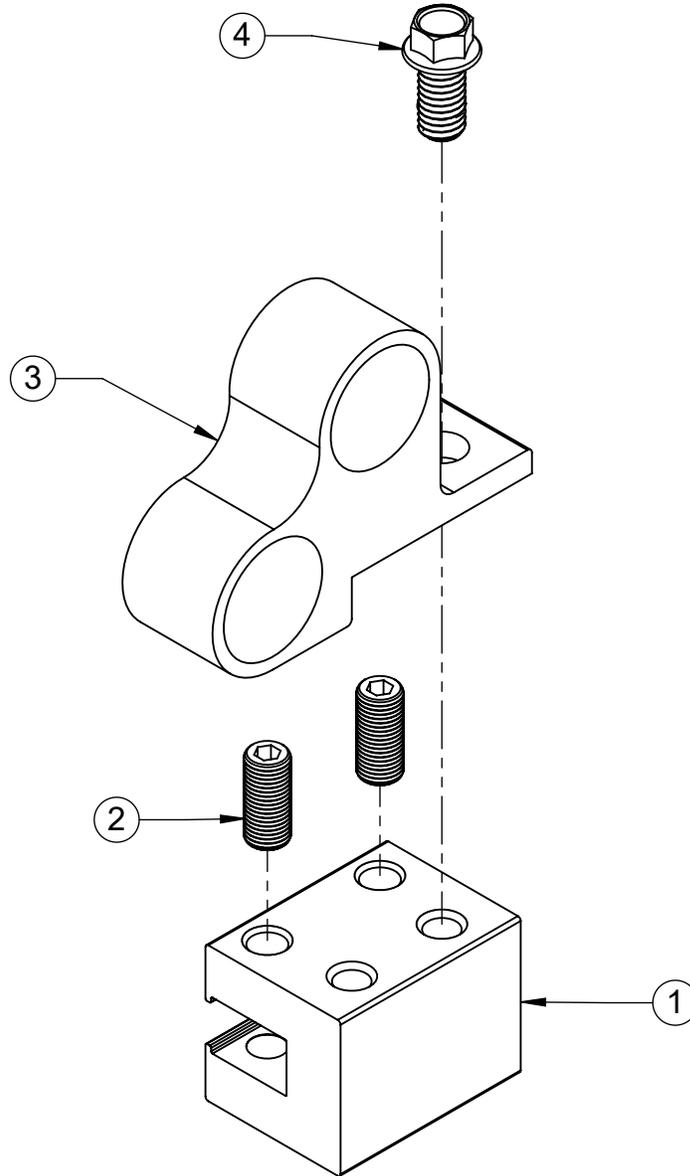
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Fax: 1.888.766.9994
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Scale: 2:3

6/14/2022

Assembly Sheet - ASG3000G-T-AL

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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	ASGU2T-AL	2" UTILITY T BLOCK SSR-AL	1
2	SET-O SS-.375-24X875	SS SET SCREW OP .3750-24X.875 (INCLUDED IN POLY KIT SET SCW.875)	2
3	PP3000AL-BRKT	3000 2 PP AL BRKT MILL	1
4	B-FL SS-.375-16X.75	SS FLANGE BOLT .3750-16X.75 (INCLUDED IN POLY KIT ASG U2)	1



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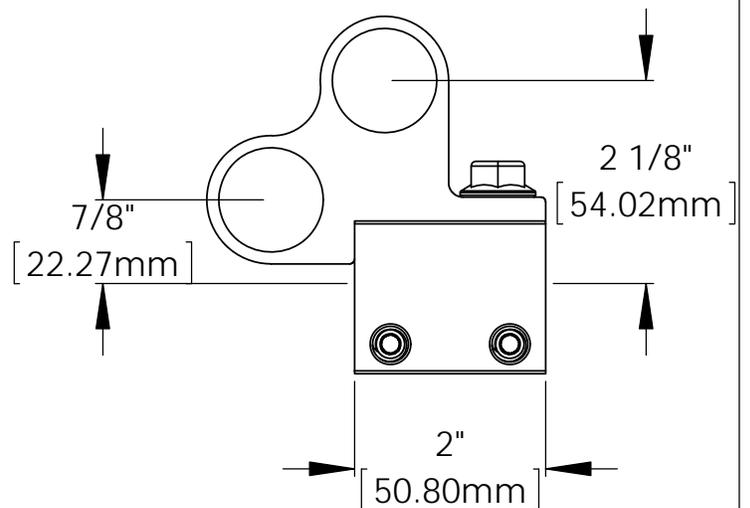
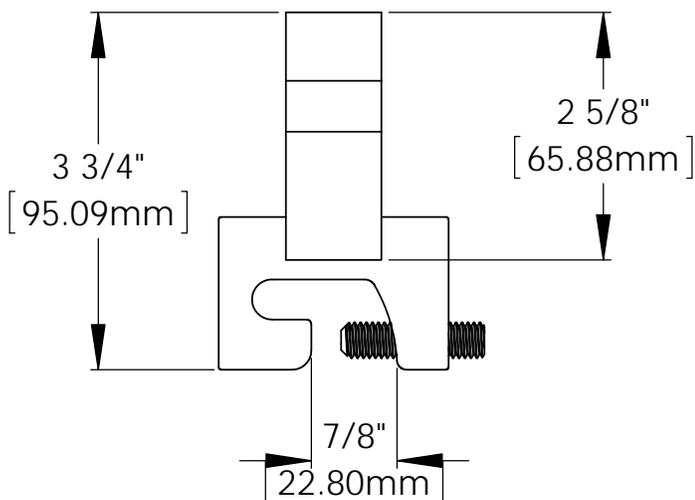
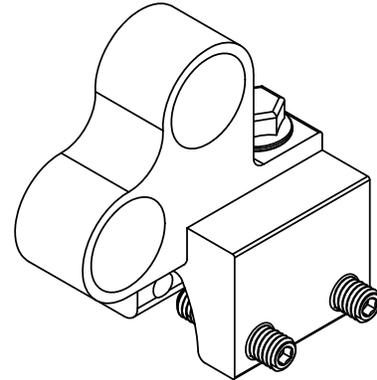
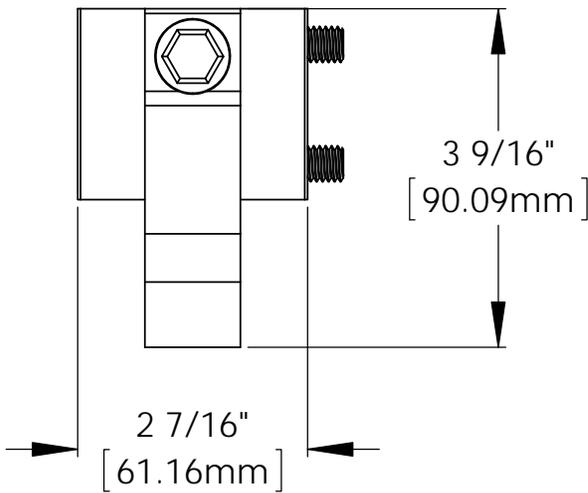
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Color Code: _____)



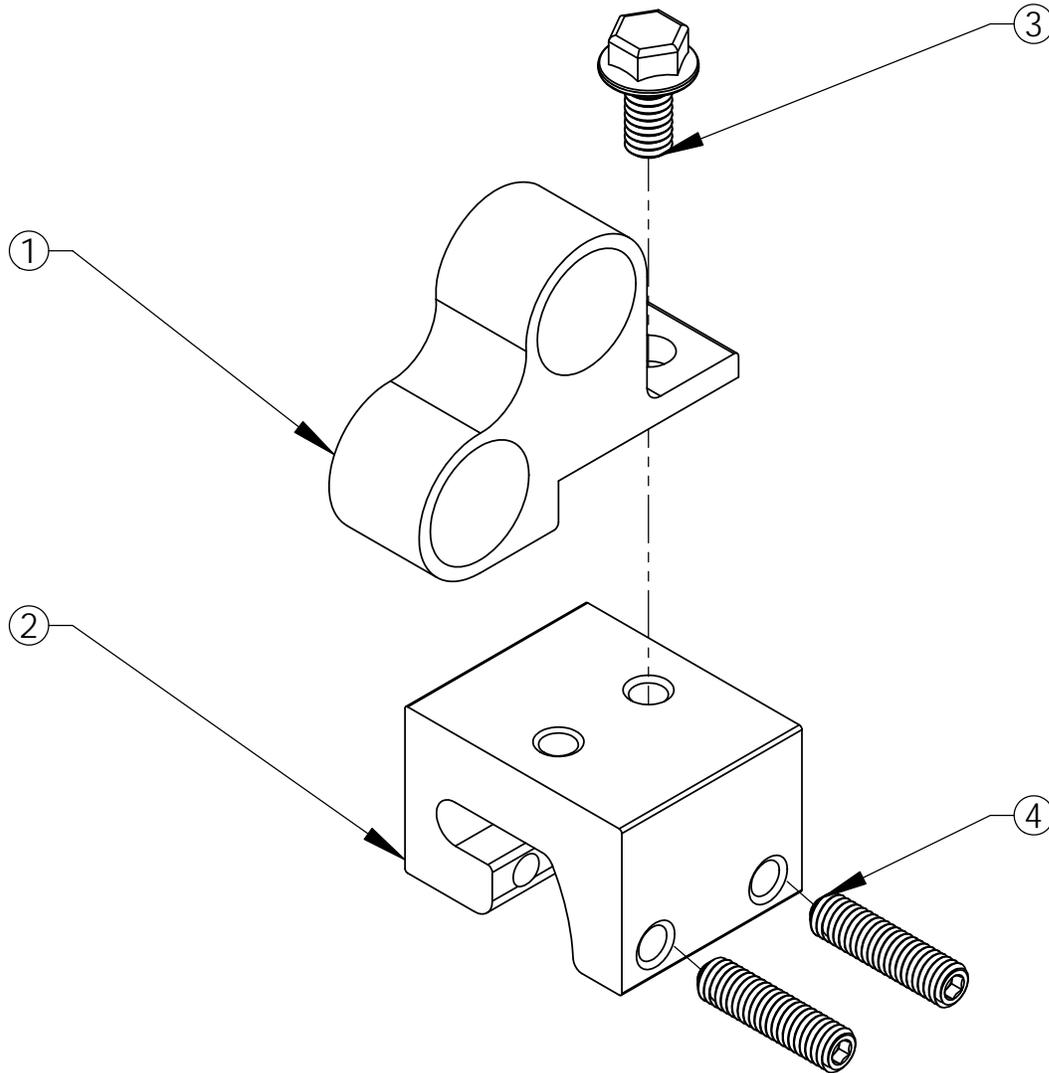
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Phone: 1.888.766.4273
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Email: Info@alpinesnowguards.com

Scale: 1:2

10/5/2020

Assembly Sheet - ASG3000G-T2-AL

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
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3. Contact manufacturer for detailed layout.
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ITEM NO.	PART CODE	DESCRIPTION	QTY
1	PP3000AL-BRKT	3000 2 PP AL BRKT 6063T6 MLL	1
2	ASG2T2-AL	2" UTILITY T2 BLOCK SSR-AL	1
3	B-FL SS-.375-16X.75	SS FLANGE BOLT .375-16x.75 (INCLUDED IN POLY KIT ASG U2)	1
4	SET-C SS-.375-16x1.50	SS SET SCREW CP .375-16x1.5 (INCLUDED IN POLY KIT SET SCREW 1.5)	2



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Scale: 2:3

10/5/2020

Cut Sheet - ASG3000G-Z2-AL

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3. Contact manufacturer for detailed layout.
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6. For patent information, visit our [Patent Page](#).

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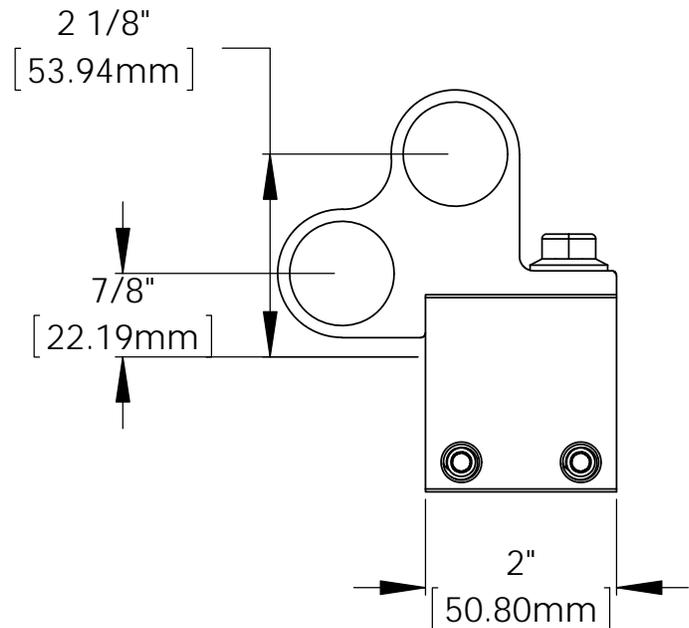
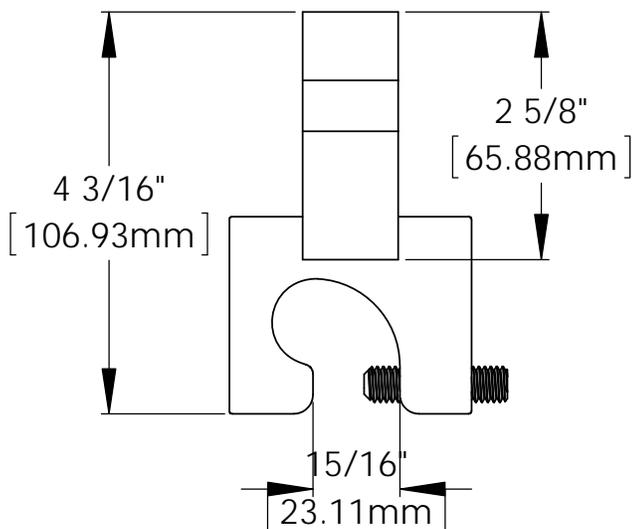
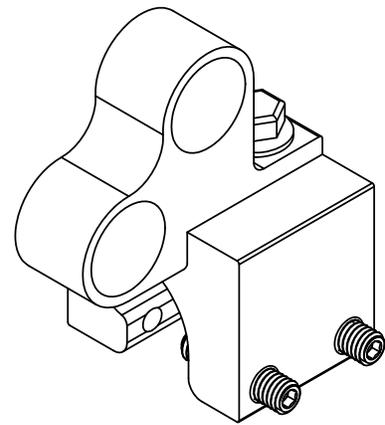
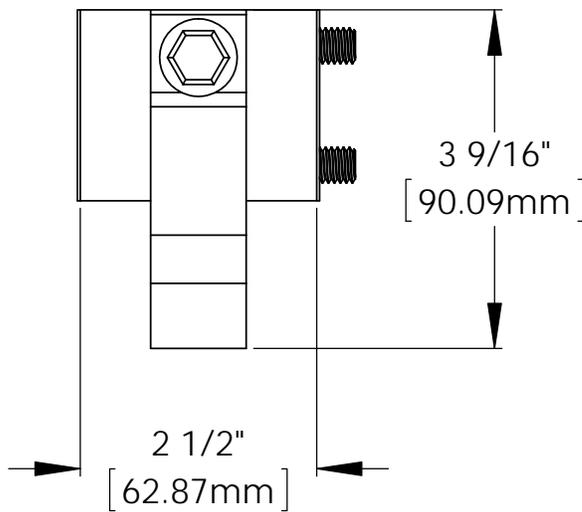
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- Mill Finish
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Color Code: _____)



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Scale: 1:2

10/5/2020



ASG3000G Specification Sheet (All Bracket Configurations) Snow Guards

PART 1 – GENERAL

1.4 SUMMARY

A. WORK INCLUDES

1. ASG3000G Snow guard that does not penetrate roof using clamp-to- seam technology.
2. Coordinate with installation of roof to assure proper placement of snow guards.
3. Provide appropriate snow guard and fasteners for roof system.

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 073100: Shingles and Shakes | MasterFormat 2016 07 31 00 |
| 3. Section 073200: Roofing Tiles | MasterFormat 2016 07 32 00 |
| 4. Section 077253: Snow Guards | MasterFormat 2016 07 72 53 |

1.4 SYSTEM DESCRIPTION

A. COMPONENTS: Aluminum bracket & utility block with (2) stainless steel set screws.

1. PP3000AL-BRKT, bracket
2. Attachment blocks (configuration based on seam profile)
 - ii. ASGU2-AL or ASGU2T-AL or ASG2Z2-AL or ASG2Z2-AL or ASG2T2-AL

B. Attachment Block Hardware

- | | |
|--|---------------------------------|
| 1. SET-O SS-.375-24X875, set screws | Used with ASGU2T-AL |
| 2. SET-O SS-.375-24X1, set screws | Used with ASGU2-AL |
| 3. SET-C SS-.375-16X1.50, set screws | Used with ASG2T2-AL, ASG2Z2-AL |
| 4. B-FL SS-.375-16X.75, flat head bolt | Used with all attachment blocks |
| 5. PP75, tubing | |
| 6. Couplings | |
| a. PP84, external couplings | |
| b. PP86, internal couplings | |
| 7. PP56, end caps | |
| 8. PP65, end collars | |

C. ACCESSORIES

1. PP95, ice flags (optional)

D. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of (2) set screws per snow guard.
3. It is important to design new structures or assess existing structures to make sure they can withstand retained snow loads.

1.3 SUBMITTAL

- A. Submit manufacturer's specifications, standard detail drawings, installation instructions, and recommended layout.



ASG3000G Specification Sheet (All Bracket Configurations) Snow Guards

1.4 QUALITY ASSURANCE

A. Installer to be experienced in the installation of specified roofing material and snow guards for not less than 5 years in the area of the project.

1.5 DELIVERY / STORAGE / HANDLING

A. Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Designed and exclusively distributed by Alpine SnowGuards®, a Division of Vermont Slate & Copper Services, Inc.
289 Harrel St., Morrisville, VT 05661 | 888-766-4273 | www.alpinesnowguards.com

2.2 MATERIALS

- A. ASG3000AL-BRKT 6000 Series Aluminum
- B. Attachment blocks 6000 Series Aluminum
- C. SET-O SS-.375-24X875 304 stainless steel 18.8 alloy
- D. SET-O SS-.375-24X1 304 stainless steel 18.8 alloy
- E. SET-C SS-.375-16X1.50 304 stainless steel 18.8 alloy
- F. B-FL SS-.375-16X.75 304 stainless steel 18.8 alloy
- G. PP75, tubing (choose one)
 - 1. 6000 Series Aluminum - 1" outside diameter and .120" wall thickness, extruded
 - 2. 304 Stainless Steel - same dimensions as aluminum, welded
- H. Couplings (choose one)
 - 1. PP84, external & exposed coupling - can also serve as 5" long expansion mechanism
 - a. 6000 Series Aluminum
 - 2. PP86, internal & concealed coupling, 3" long
 - a. 6000 Series Aluminum
 - b. 304 Stainless Steel
- I. PP56, end caps (choose one)
 - 1. 304 Stainless Steel
- J. PP65, end collars (choose one)
 - 1. 6000 Series Aluminum
 - 2. 304 Stainless Steel

2.3 ACCESSORY MATERIALS

- E. PP95, ice flags (optional), 3" wide x length (choose one)
 - 1. 6000 Series Aluminum
 - 2. 304 Stainless Steel

2.4 FINISH (choose one)

- A. Mill Finish - standard
- B. Powder Coated - available at additional cost



ASG3000G Specification Sheet (All Bracket Configurations) Snow Guards

PART 3 – EXECUTION

3.1 EXAMINATION

A. Substrate

1. Inspect structure on which snow guard system is to be installed and verify it will withstand any additional loading that it may incur. Notify general contractor of any deficiencies before installing Alpine SnowGuards' products.
2. Verify roofing material has been installed correctly prior to installing snow guards.

3.2 INSTALLATION

- ##### **A. Comply with architectural drawings and snow guard manufacturer's recommendations for location of system. Comply with manufacturer's written installation instructions for installation and layout.**

Document Version 05.25.2023
07 72 53 Snow Guards



ASG3000G Snow Guard Installation Instructions (All Configurations)

ROOF TYPES

New / Existing Double Lock Metal Standing Seam	ASG3000G-U-AL
New / Existing Single Lock Metal Standing Seam	ASG3000G-T-AL
New / Existing Snap Lock Metal Standing Seam	ASG3000G-U-AL
New / Existing Bulb Seam Metal Standing Seam	ASG3000G-Z2-AL
New / Existing Tee Seam Metal Standing Seam	ASG3000G-T2-AL

Note:

- ASGU2-AL clamps are designed to engage seams up to 7/16" thick.
- For single lock seam applications, horizontal leg must measure 5/8" or greater and set screws must be accessible from top of bracket for tightening.
- On snap lock seams, set screws should be opposite open/overlap side of seam.
- Two included set screws are used in any given ASGU2 installation.

INSTALLATION

1. Position blocks (clamps) appropriately on panel seam.
Using a 3/16" allen-wrench attachment tip for a 1/4" drive screw gun, tighten and re-tighten set screws as seam material compresses.
On low seam profiles, a 4" bit extension on screw gun may help to access set screw.
Tighten set screws to a torque value of 140-180 inch-pounds.
2. Use included flange bolt to attach pipe bracket to clamp. This can be done before clamp is installed, if preferred. Torque to 115 in-lb.
3. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

SNOW GUARD LAYOUT FOR PIPE-STYLE BRACKETS

- Contact Alpine SnowGuards for detailed layout.
- Do not install runs of snow retention more than 100' long without a break to allow for thermal expansion.
- First row of snow guards is installed above outer most wall or support of the building.
- Do not use as Fall Arrest Anchors.
- Be sure panels are securely fastened to roof to absorb loads being transferred by snow retention system.

Document version 08.01.2022
07 72 53 Snow Guards



Snow Guard Maintenance

Our snow guards must be inspected annually. Any defects or damage in materials and/or workmanship must be reported to Alpine SnowGuards immediately. Seller will not be responsible for snow guard systems that have not been properly maintained.

- Ensure snow guard brackets, accessories & components are intact, have not been displaced, and show no signs of damage or wear.
- Inspect fasteners into roof deck.
- Inspect snow guard-related waterproofing and replace or repair where necessary to ensure roof integrity.
- Snow accumulation on roofs and rooftop solar panels must be removed to avoid damage to the roof or panels, the building structure, and anything below. Heavy snowfalls, drifting, and the gradual accumulation of snow and ice can lead to less-than-ideal snow guard performance.
- Check each clamp set screw with a torque wrench to ensure proper fastening has been maintained (clamp-to-seam models).
- Inspect sealant, tape, and adhesive. Remove and replace as needed.

Document Version 04.15.24

TIGER Drylac®

ral colors

exterior powder coatings



TIGER Drylac®
Powder Coatings

series 49

Weather Resistant TGIC Polyester Powder Coatings for Exterior and Interior Applications

Features: Good weather resistance, good mechanical properties, very smooth flow, good storage stability, good coverage

Gloss Level: All colors featured in this chart are available as standard products in smooth glossy with a gloss level of 80-90+ (gloss level according to Garner 60 deg., ASTM D 523).

Typical Applications: Residential windows and doors, garden equipment, patio furniture, automotive accessories, bicycles, motorcycles, sporting goods.

Standard Packaging: 55 lb boxes or 5 lb mini packs

Datasheets: Periodically updated datasheets, showing cure parameters, test results, pre-treatment information and more are available for all products in this chart. Please contact your local TIGER Drylac office or visit www.tigerdrylac.com for the most current edition.



All Series 49 (custom and stock) products, made in the US or Canada are periodically re-certified and carry the UL (Underwriter Laboratories) Recognized Component mark. This UL mark is for all equipment and products intended for the US and Canadian market.

series 38

Highly Weather- and UV-Resistant Powder Coatings based on Super Durable TGIC Polyester for Exterior and Interior Applications

Features: Superior gloss and color retention, excellent weather resistance, good mechanical properties, superior chalk resistance, smooth flow, excellent edge coverage, good storage stability. AAMA 2604-05 conforming.

Gloss Level: All colors featured in this chart are available as standard products in smooth glossy with a gloss level of 80-90 (gloss level according to Gardner 60 deg., ASTM D 523).

Typical Applications: Agricultural and construction equipment, bus shelters, lighting fixtures, playground equipment, site furnishings, garage doors, stadium seating, fencing, automotive equipment, and marine applications.

Standard Packaging: 44 lb boxes and 5 lb mini packs

Datasheets: Periodically updated datasheets, showing cure parameters, test results, pre-treatment information and more are available for all products in this chart. Please contact your local TIGER Drylac office or visit www.tigerdrylac.com for the most current edition.

RAL colors not available: Due to pigmentation a small percentage of colors in the yellow, orange, red and purple range offer only limited UV stability and are therefore not available.

More standard Series 38 products: For additional architectural mattes, glossy and metallic products please see our Series 38 Super Durable Powder Coatings brochure.

Custom colors: Custom colors not shown in this brochure can be custom made in 7 to 10 days. Due to pigmentation some colors in the yellow, orange, red and purple range offer only limited UV stability. UV stability of custom colors in that color range must be verified by our production laboratories on a case by case basis.

TIGER Drylac continues to offer the largest product selection in the powder coating industry. For additional standard products and innovative powder coating solutions please see our numerous other brochures including:

TIGER Drylac Metallic

TIGER Drylac Special Effect

TIGER Drylac Essentials

TIGER Drylac Specialties

TIGER Drylac Series 38 Super Durable

TIGER Drylac Anti-Graffiti

TIGER Drylac Series 58 Super Durable
(for approved applicators only)

TIGER Drylac Series 75 Fluoropolymer
(for approved applicators only)

TIGER Drylac Wood

Specifying TIGER Drylac products

In order to eliminate possible errors in specifying our products, we recommend using the full product number rather than specifying the RAL number only. This product number not only describes the Series/Chemistry, but also the exact color, finish and sheen.

Please check with your local TIGER Drylac office or representative for assistance with specifications and suitability issues.

RAL

Having gained worldwide acceptance over the last few decades, the RAL is the most popular Central European Color Standard used today.

The RAL colors in this chart have been matched as closely as possible. Color chart production methods and influence from heat and light may account for slight color deviation from the actual RAL Standard. This chart therefore can not serve as a standard for RAL color production and is to be used as a guide for color planning and specification only.

To aid in final product selection please contact your regional Tiger Drylac location for a powder coated Q-Panel of the product of your choice.

Product Code Matrix

3 8 / 3 0 0 2 5

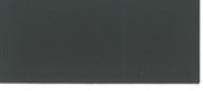
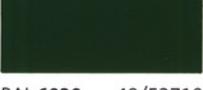
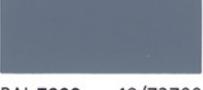
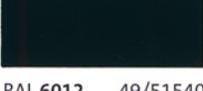
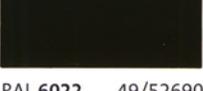
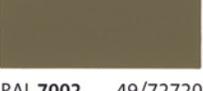
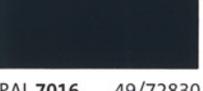
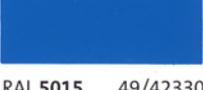
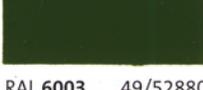
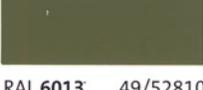
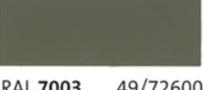
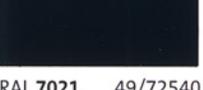
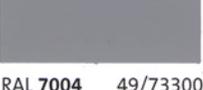
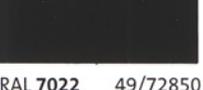
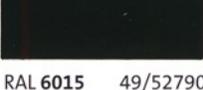
Chemistry

09 Polyester/Epoxy Hybrid
16 Acrylic Hybrid
28 Super Durable Polyester TGIC (for approved applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer (for approved applicators only)
89 Polyester/Epoxy Hybrid, Low/Fast Cure

Color Group (starting with)

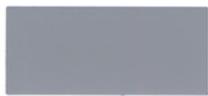
1 White
2 Yellow / Orange
3 Red
4 Blue
5 Green
6 Brown
7 Grey
8 Black
9 Metallic

					
RAL 1000 49/15200 38/15000	RAL 1015 49/15320 38/15015	RAL 1033 49/22240	RAL 2012 49/24690	RAL 3014 49/31080	RAL 4004 49/31020 38/30024
					
RAL 1001 49/15190 38/15001	RAL 1016 49/22520 38/20016	RAL 1034 49/23910	RAL 3000 49/33120 38/30000	RAL 3015 49/33670	RAL 4005 49/42780
					
RAL 1002 49/22590 38/20002	RAL 1017 49/22510 38/20017	RAL 1037 49/20096	RAL 3001 49/31120 38/30001	RAL 3016 49/31980 38/30016	RAL 4006 49/32090
					
RAL 1003 49/22580	RAL 1018 49/21830 38/20018	RAL 2000 49/24570	RAL 3002 49/31110 38/30002	RAL 3017 49/31060	RAL 4007 49/32540 38/30025
					
RAL 1004 49/22570 38/20004	RAL 1019 49/13660 38/15019	RAL 2001 49/24560 38/23170	RAL 3003 49/31100 38/30003	RAL 3018 49/31050	RAL 4008 49/32280
					
RAL 1005 49/22560 38/20005	RAL 1020 49/22500 38/20020	RAL 2002 49/24550 38/25002	RAL 3004 49/33900 38/30004	RAL 3020 49/31040 38/30021	RAL 4009 49/34740
					
RAL 1006 49/22550 38/20006	RAL 1021 49/22280 38/20021	RAL 2003 49/24540	RAL 3005 49/31900 38/30005	RAL 3022 49/33700	RAL 4010 49/40490
					
RAL 1007 49/22540	RAL 1023 49/22490 38/20023	RAL 2004 49/24530	RAL 3007 49/31910 38/30007	RAL 3027 49/33660	RAL 5000 49/42200 38/40000
					
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RAL 7040 49/75470
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RAL 9005 49/82830
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RAL 7035 49/73510
38/70035



RAL 8000 49/66170
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RAL 7039 49/71020
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RAL 8004 49/66130
38/60004



RAL 8024 49/66060
38/60024



RAL 9018 49/72490
38/10018

exterior

EUROPE

AUSTRIA

TIGER Coatings GmbH & Co. KG
A-4600 Wels
phone +43 / (0)7242 / 400-0
fax +43 / (0)7242 / 650 08
office@tiger-coatings.com
www.tiger-coatings.com

BELGIUM

Mr. Eric Kun
B-3680 Maaseik
phone +32 / (0)497 / 41 57 97
fax +32 / (0)89 / 56 78 58
office.be@tiger-coatings.com

C&E Warehousing

B-3640 Kinrooi
phone +32 / (0)497 / 92 25 70
fax +32 / (0)89 / 56 78 58

BOSNIA & HERZEGOVINA

Klio d.o.o.
BiH-75300 Lukavac
phone +387 / 35 / 555 392
fax +387 / 35 / 553 256
office.bih@klio.hr

Klio 1
BiH-71210 Iliđža, Sarajevo
phone +387 / 33 / 626 621

BULGARIA

Deyacolor LTD
BG-1113 Sofia 13 post box no. 265
phone/fax +359 / 2 978 58 61
office@deyacolor.com

CROATIA

Klio d.o.o.
CRO-10360 Zagreb Sesvete
phone +385 / (0)1 / 200 90 41
fax +385 / (0)1 / 200 90 43
klio@klio.hr

CZECH REPUBLIC

TIGERLAK, s.r.o.
CZ-6200 00 Brno
phone +420 / 545 429 110
fax +420 / 545 229 209
office.cz@tiger-coatings.com

DENMARK

Ms. Brigitte Pudor Gullev
DK-6200 Aabenraa
phone +45 / 73 62 13 23
mobil +45 / 21 20 45 20
fax +45 / 73 62 13 24
office.dk@tiger-coatings.com

FRANCE

TIGER S.A.R.L.
F-69480 Anse
phone +33 / (0)474 / 67 13 70
fax +33 / (0)474 / 67 10 42
office.fr@tiger-coatings.com

GERMANY

KLOZ Kunststofftechnik GmbH
D-70736 Fellbach-Oeffingen
phone +49 / (0)711 / 95 19 80 32
fax +49 / (0)711 / 518 07 50
info@kloz-kunststofftechnik.de

KLOZ Wickede
D-58739 Wickede-Ruhr
phone +49 / (0)2377 / 36 25
fax +49 / (0)2377 / 26 22

Jochen Hänel Handelsvertretung
D-65239 Hochheim a. M.-Süd
phone +49 / (0)6146 / 83 58 81
fax +49 / (0)6146 / 83 58 84
jhaenel@gmx.de

Boris Herrmann Handelsvertretung
D-44309 Dortmund
phone +49 / (0)231 / 25 70 12
fax +49 / (0)231 / 25 70 15
b.herrmann@tiger-coatings.com

Thomas Leitzke Handelsvertretung
D-47647 Kerken
phone +49 / (0)2833 / 57 39 32
fax +49 / (0)2833 / 57 39 33
t.leitzke@tiger-coatings.com

GREAT BRITAIN

TIGER COATINGS UK LTD
Solihull, West Midlands, B93 9EG
phone +44 / (0) 1564 778 866
fax +44 / (0) 1564 778 903
office.gb@tiger-coatings.com

HUNGARY

TIGERLAKK Kft.
H-1183 Budapest
phone +36 / 1 / 293 90 20
fax +36 / 1 / 297 45 49
office.hu@tiger-coatings.com

ITALY

TIGER Drylac Italia s.r.l.
I-24121 Bergamo
phone +39 / 035 / 417 39 67
fax +39 / 035 / 22 37 11
office.it@tiger-coatings.com

LITHUANIA, LATVIA

UAB „LAKMALIT“
LT-3000 Kaunas
phone +370 / 7 / 32 37 41, 32 34 95
fax +370 / 7 / 32 40 87
kaunas@lakmalit.lt

THE NETHERLANDS

Mr. Ben de Jong
NL-2133 GJ Hoofddorp
phone +31 / (0)6 / 419 956 80
fax +31 / (0)23 / 565 58 72
office.nl@tiger-coatings.com

POLAND

Tensor Consulting
PL-04512 Warszawa
phone +48 / (0)22 / 815 42 79
fax +48 / (0)22 / 815 42 79
ajelonek@tensor.com.pl

ROMANIA

SC TIGER Coatings Romania SRL
R-010631 Bucuresti
phone +40 / (0)21 / 314 77 37
fax +40 / (0)21 / 314 77 87
office.ro@tiger-coatings.com

RUSSIA

OOO TECHNOKOLOR-M
107370 Moscow, Russia
phone +007 / 495 / 966 75 08
fax +007 / 495 / 963 47 45
sales@technocolor.ru

SERBIA

Klio NS d.o.o.
SCG-21000 Novi Sad
phone +381 / 21 / 478 01 08
fax +381 / 21 / 641 00 40
office@klio.co.yu

SLOVAKIA

TIGERLAK Slovakia spol.s r.o.
SK-902 01 Pezinok
phone +421 / (0)33 / 640 00 71
fax +421 / (0)33 / 640 00 72
office.sk@tiger-coatings.com

SLOVENIA

T-Lotus d.o.o.
SLO-9240 Ljutomer
phone +386 / (0)2 / 583 18 79
fax +386 / (0)2 / 583 18 80
kontakt@t-lotus.si

SPAIN

TIGER Coatings GmbH & Co. KG
12001 Castellón - SPAIN
phone +34 / (0)664 / 328 449
fax +34 / (0)964 / 050 309
office.es@tiger-coatings.com

SWITZERLAND

FEYCO AG
CH-9430 St. Margrethen SG
phone +41 / (0)71 / 747 84 11
fax +41 / (0)71 / 747 85 10
info@feyco.ch

TURKEY

Enki İç ve Dis Tic. Paz. Dan. San. Tic. Ltd.Sti.
No: 26 Dk: 1Kadıköy-Istanbul
phone +90 / (0)216 / 467 38 57
fax +90 / (0)216 / 467 39 13
b.gurkan@tiger-coatings.com

UKRAINE

Interfarb - Ukraina
UA-79012 Lvov
phone/fax +380 / 322 / 40 23 11
phone/fax +380 / 322 / 97 10 76
interfarb@utel.net.ua

THE AMERICAS

ARGENTINA

Glass + Partner S.A.
AR-1429 Buenos Aires
phone +54 / 114 / 541 70 58
fax +54 / 114 / 541 70 58
glasspartner@arnet.com.ar

BRAZIL

TIGER Drylac do Brasil Ltda.
13295-000 ITUPEVA SP
phone +55 / 11 / 44 96 53 27
fax +55 / 11 / 44 96 65 14
office.br@tiger-coatings.com

CANADA

ONTARIO: TIGER Drylac Canada Inc.
Guelph, Ontario, N1G 4P5
phone +1 / 519 / 766 47 81
fax +1 / 519 / 766 47 87
info@tigerdrylaccanada.com

QUEBEC: TIGER Drylac Canada Inc.

Anjou, Quebec H1E 1P2
phone +1 / 514 / 351 53 31
fax +1 / 514 / 351 40 15
tigerqc@microtec.net

CALGARY: TIGER Drylac Canada Inc.

Calgary, Alberta Canada T2E 6L7
phone +1 / 403 / 398 97 23
fax +1 / 403 / 398 97 25
info@tigerdrylaccanada.com

VANCOUVER: TIGER Drylac Canada Inc.

Delta, BC V3M 5P8
phone +1 / 604 / 540 97 26
fax +1 / 604 / 540 97 25
vancouver@tigerdrylaccanada.com

CHILE

TIGER Drylac de Chile Ltda.
San Ramon, Santiago de Chile
phone +56 / 2 / 511 56 59
fax +56 / 2 / 511 56 59
office.cl@tiger-coatings.com

MEXICO

TIGER Drylac MEXICO S.A. DE C.V.
Col. Santa Cruz Acatlan, Naucalpan
Edo. de Mexico C.P. 53150
phone +52 / 555 / 363 12 14
fax +52 / 555 / 363 17 39
mexico@tigerdrylac.com

U.S.A.

TIGER Drylac U.S.A., Inc. (HQ's)
Ontario, CA 91761
phone +1 / 909 / 930 91 00
fax +1 / 909 / 930 91 11
customerservicewest@tigerdrylac.com

TIGER Drylac U.S.A., Inc.
St. Charles, IL 60174
phone +1 / 630 / 513 99 99
fax +1 / 630 / 513 99 98
customerservicemw@tigerdrylac.com

TIGER Drylac U.S.A., Inc. (HQ's)
Reading, PA 19605
phone +1 / 610 / 926 81 48
fax +1 / 610 / 926 81 49
customerserviceeast@tigerdrylac.com

TIGER Drylac U.S.A., Inc.
Kennesaw, GA 30144
phone +1 / 770 / 218 24 90
fax +1 / 770 / 218 24 95
customerservice@tigerdrylac.com

TIGER Drylac U.S.A., Inc.
Arlington TX 76011
phone +1 / 817 / 277 79 95
fax +1 / 817 / 277 19 31
customerservicesouth@tigerdrylac.com

MIDDLE EAST

UNITED ARAB EMIRATES

TIGER Coatings Middle East (FZE)
Sharjah
phone +971 / (0)6 / 559 06 23
fax +971 / (0)6 / 559 06 24
office.ae@tiger-coatings.com

ASIA

CHINA

TIGER Drylac (Taicang) Co. Ltd.
Taicang, Jiangsu 215400
P.R. China
phone +86 / (0)512 / 53 56 06 19
fax +86 / (0)512 / 53 95 50 95
office.cn@tiger-coatings.com

TIGER Drylac Beijing Warehouse
Shibali dian Chaoyang, Beijing
P.R. China
phone +86 / (0)10 / 87 30 44 38
fax +86 / (0)10 / 67 70 35 04

TIGER Drylac Guangzhou Warehouse
Nancun town, Panyu Guangzhou
P.R. China
phone +86 / (0)20 / 84 59 29 01
fax +86 / (0)20 / 34 57 94 97

HONG KONG

TIGER Coatings Hong Kong Limited
Kowloon, Hong Kong
phone +852 / 27 81 55 82
fax +852 / 27 82 58 86
office.hk@tiger-coatings.com

INDIA

National Corporation
Bangalore-560 002, INDIA
phone +91 / (0)80 / 222 265 54
fax +91 / (0)80 / 222 148 00
rsachdev@vsnl.com

JAPAN

TIGER Drylac JAPAN K.K.
Kanagawa, 229-1135, JAPAN
phone +81 / (0)42 / 760 60 56
fax +81 / (0)42 / 760 60 57
office.jp@tiger-coatings.com

MALAYSIA

TIGER Drylac MALAYSIA Sdn. Bhd.
50250, Kuala Lumpur
phone +60 / (0)3 / 20 39 43 15
fax +60 / (0)3 / 20 31 83 59
office.my@tiger-coatings.com

SINGAPORE

TIGER Drylac SINGAPORE Pte. Ltd.
SINGAPORE 759196
phone +65 / 67 59 94 33
fax +65 / 67 59 94 36
office.sg@tiger-coatings.com

TAIWAN

Vigorousport Int. Co., Ltd.
Taichung, TAIWAN
phone +886 / (0)4 / 23 82 21 23
fax +886 / (0)4 / 23 82 21 11
office.tw@tiger-coatings.com

THAILAND

Grand Siam Commercial Co., Ltd.
Bangkok 10320
phone +66 / 2 / 691 62 74
fax +66 / 2 / 691 22 25
apichart@samart.co.th

VIETNAM

TIGER Drylac Vietnam Co., Ltd.
Binh Duong Province
phone +84 / 650 / 758 370
fax +84 / 650 / 758 371
office.vn@tiger-coatings.com

TIGER Drylac Ha Noi Warehouse
Ha Noi
phone +84 / 4 / 762 81 65
fax +84 / 4 / 762 81 64



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