



WR316-GAL Wire Loop Pad Style Snow Guard Submittal Document Set

ROOF TYPES

- New Synthetic Slate
- New Synthetic Shake

AVAILABLE MATERIALS

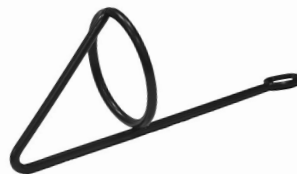
- Galvanized Steel (GAL)

AVAILABLE FINISHES

- Matte Black
- Mill Finish
- Powder Coating (additional charge) using RAL TIGER Drylac® Exterior Colors

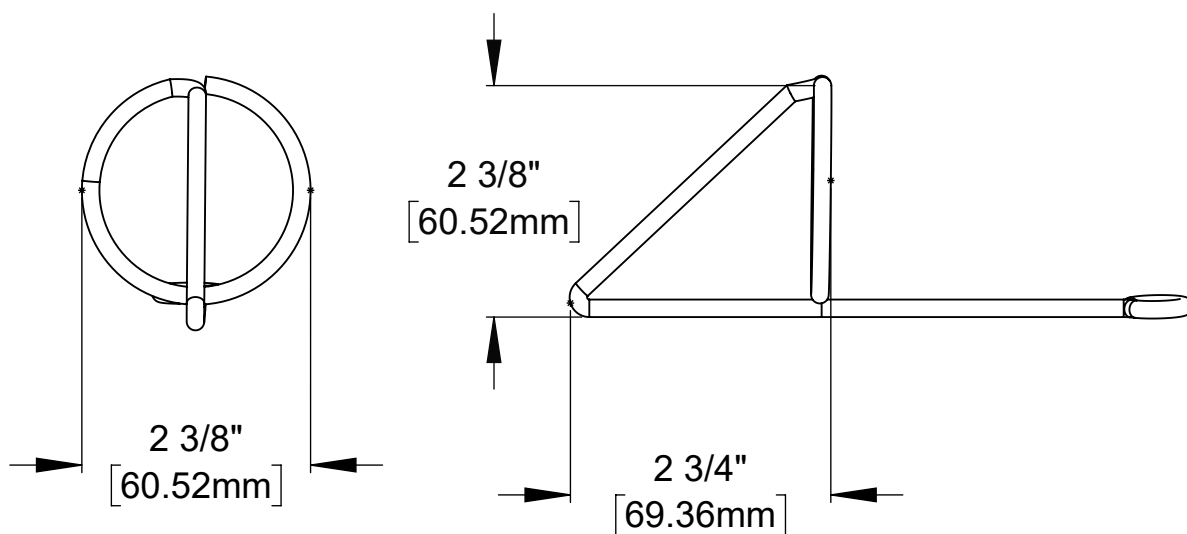
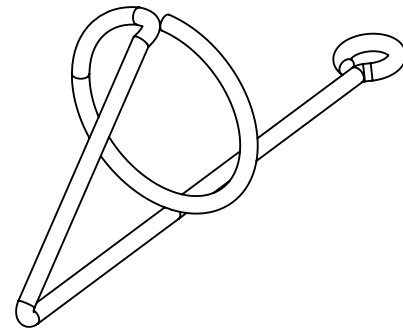
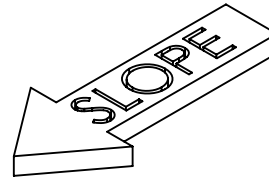
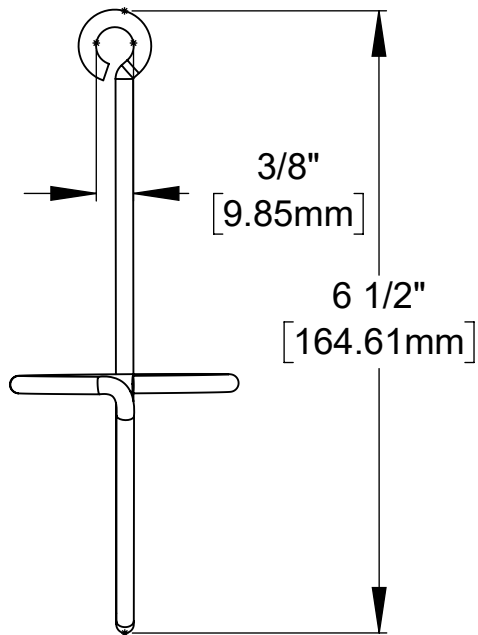
FEATURES/ADVANTAGES

- 45lb Steel Wire Electroplate Galvanized
- Single eyelet attachment point
- Minimalistic nature of this snow guard reduces the appearance of its presence on a roof slope
- Powder-coated matte black for aesthetic appeal.
- Overall height is 2 3/8"
- Overall length 6 1/2"
- Loop design allows for use of appropriate mechanical fastener



Cut Sheet - WR316-GAL

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](#).



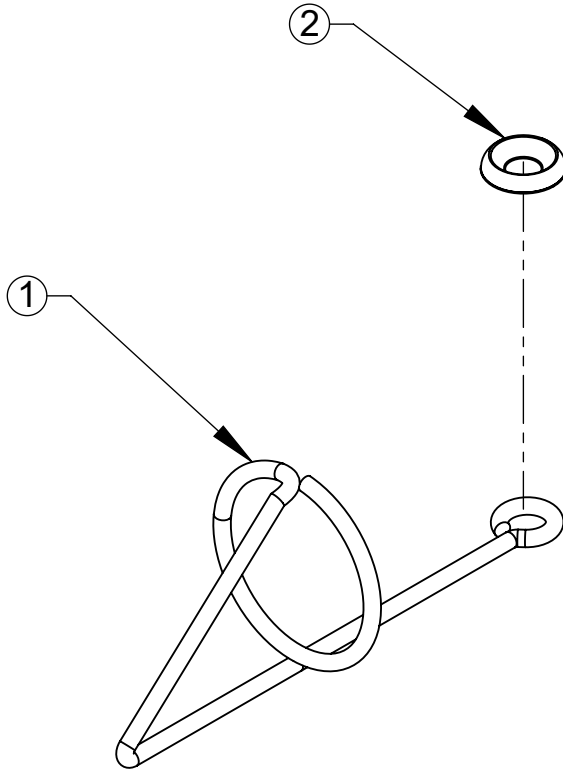
289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:2

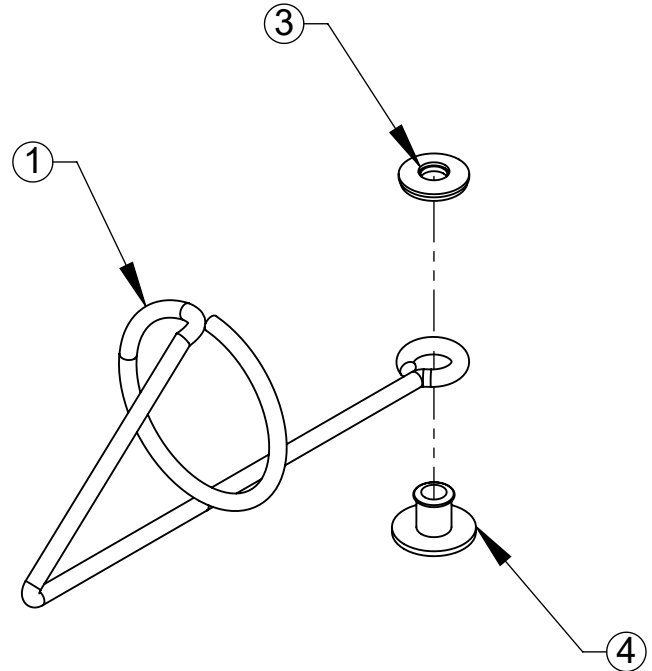
11/8/2021

Assembly Sheet - WR316-GAL

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](#).



Option 1



Option 2

ITEM NO.	PART CODE	DESCRIPTION	QTY
1	WR316-GAL	3/16" GALVANIZED STEEL WELDED	1
2	W-CUP SS-#14	SS CUP WASHER #14 (INCLUDED IN POLY KIT CUP WASHER)	1
3	W-NEO SS-.313	SS NEO WASHER .313ID (INCLUDED IN POLY KIT GF NEO WASHERS)	1
4	BUSHING .266X.875	EPDM BUSHING .266X.875 (INCLUDED IN POLY KIT BUSHING .26)	1



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11/8/2022



WR316-GAL Wire Loop HD Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. Wire Loop HD (WR316-GAL) snow guard that attaches directly to roof deck.
2. Coordinate with installation of roof to assure proper placement of snow guards.
3. Provide appropriate snow guard and fasteners for the roof system.

B. RELATED SECTIONS

- | | |
|--|----------------------------|
| 1. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 073100: Shingles & 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 |
| 5. Division 7: Thermal and Moisture Protection | |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. Wire Loop HD (WR316-GAL) snow guard system consists of individual metal wire snow guard, EPDM bushing, EPDM bonded washer and cup washer.
2. Fasteners
 - a. To be of metal compatible with snow guards.
 - b. Fasteners should be selected for compatibility with the roof deck.
 - c. Fastener strength should exceed or be equal to that of the snow guard system.

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Minimum 1 fastener, 1 EPDM bushing, 1 EPDM bonded washer per snow guard OR minimum 1 fastener and 1 cup washer 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.

1.4 QUALITY ASSURANCE

- A. Installer to be experienced in 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.



WR316-GAL Wire Loop HD Specification Sheet Snow Guards

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. 45lb steel wire electroplate galvanized
- B. EPDM Rubber Bushing
- C. EPDM – SS-Bonded Washer
- D. W-CUP SS-#14 – Cup Washer

2.3 FINISH

- A. Mill Finish
- B. Matte Black Powder Coated
- C. Custom Color Powder Coated – additional charge

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 snow guards.
 - 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 Guard

WR316-GAL Wire Loop Snow Guard Installation Instructions

ROOF TYPES

- New Synthetic Slate (follow Cup Washer installation below)
- New Synthetic Shake (follow Cup Washer installation below)
- New or Retrofit F-Wave Revia (Bushing & Bonded washer installation below)

INSTALLATION

Cup Washer (Recommended for New Synthetic and New Shake)

1. Install two courses of shingles.
2. Install row of snow guards:
 - a.) For single or multi-width synthetic slate or shake, insert fastener into cup washer and eyelet of snow guard and fasten into roof deck at or above nail line of shingle in keyway (fig. 1).
 - b.) For DaVinci BellaForté synthetic slate or shake, insert fastener into cup washer and eyelet of snow guard, and fasten into roof deck at or above nail line within keyway (fig. 2).
3. Install additional shingle courses, and repeat for entire roof surface, completing snow guard layout.

Figure 1

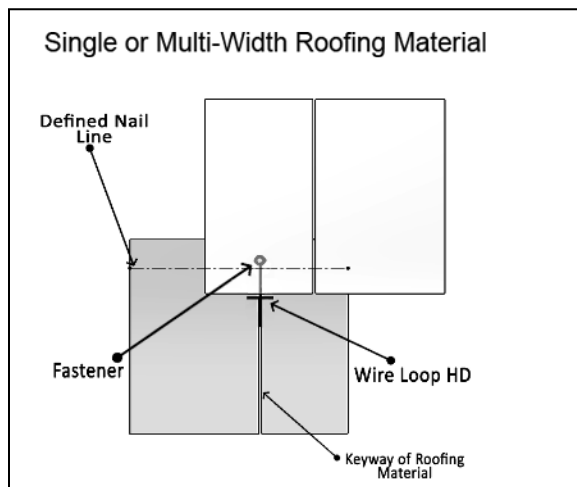
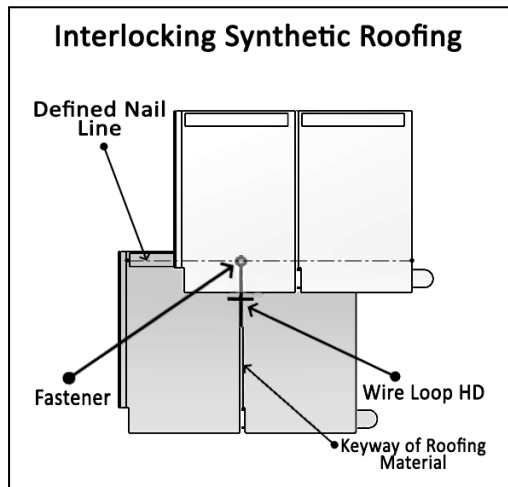


Figure 2



WR316-GAL Wire Loop Snow Guard Installation Instructions

BUSHING & BONDED WASHER (RECOMMENDED FOR F-WAVE REVIA)

1. Insert included rubber bushing into small top loop of Wire Loop HD snow guard.
Backfill rubber bushing with roof manufacturer approved sealant.
2. Set in place on 3rd course of shingles.
For Estate Series profile shingles, snow guard should sit on face of the shingle between notch in the upper course. (fig. 1)
For all other styles, snow guard should sit on face or in keyway just under upper course of shingles. (fig. 2)

Note: To maintain integrity of adhesive layer between F-Wave Revia Shingles, do not insert or install snow guard between shingle layers.

3. Insert fastener into included EPDM/stainless steel bonded washer, through rubber bushing and sealant, and fasten snow guard into roof deck.

Note: Do not overtighten fasteners. Overtightening may cause damage to EPDM layer on washer and may cause snow guard to lift off roof surface.

4. Apply roof manufacturers approved sealant around fastener after being secured to roof deck. (Optional)

Figure 1

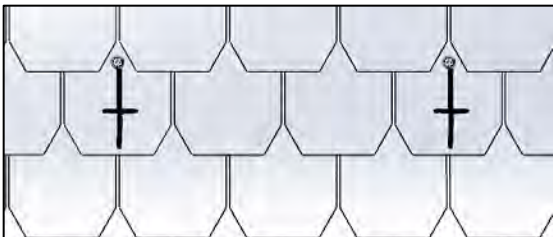
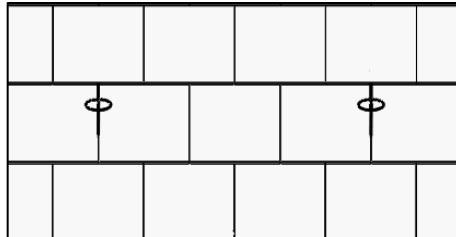


Figure 2



WIRE LOOP HD STYLE SNOW GUARD LAYOUT FOR NEW SLATE & SYNTHETIC SHINGLE ROOFING

- Contact manufacturer for detailed layout.
- First row of snow guards is placed above outer most wall or support of the building.
- Quantities per square should be installed in a regular pattern over entire roof surface to within 5 feet of the ridge.
- To estimate quantities, multiply above "quantity per square" by number of roofing squares of roof area. A roofing square is 100 square feet.
- The quantity per square is based on a 225 lb. holding capability (includes 2.0 X safety margin) per snow guard.
- If you have any questions, please contact us at 888-766-4273.

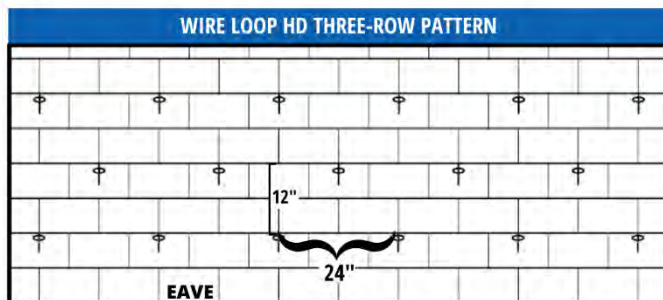
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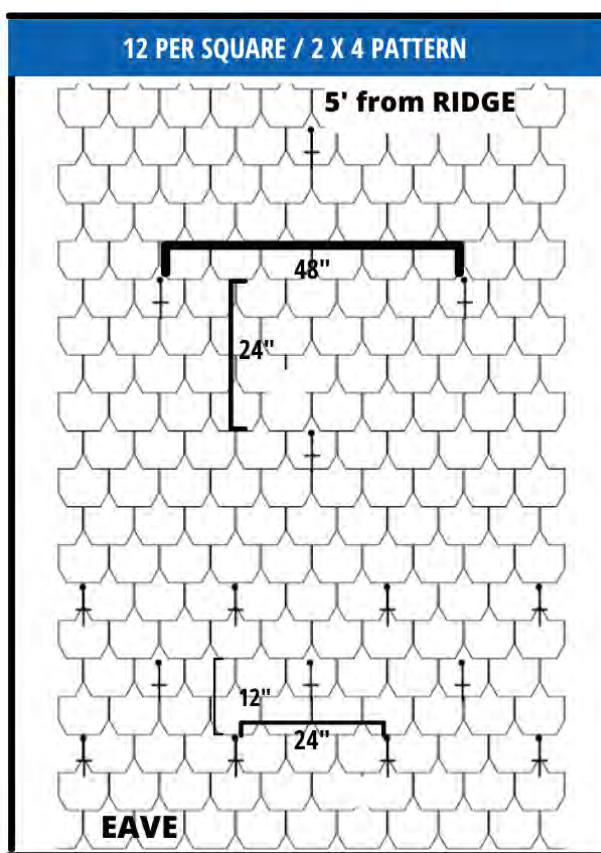
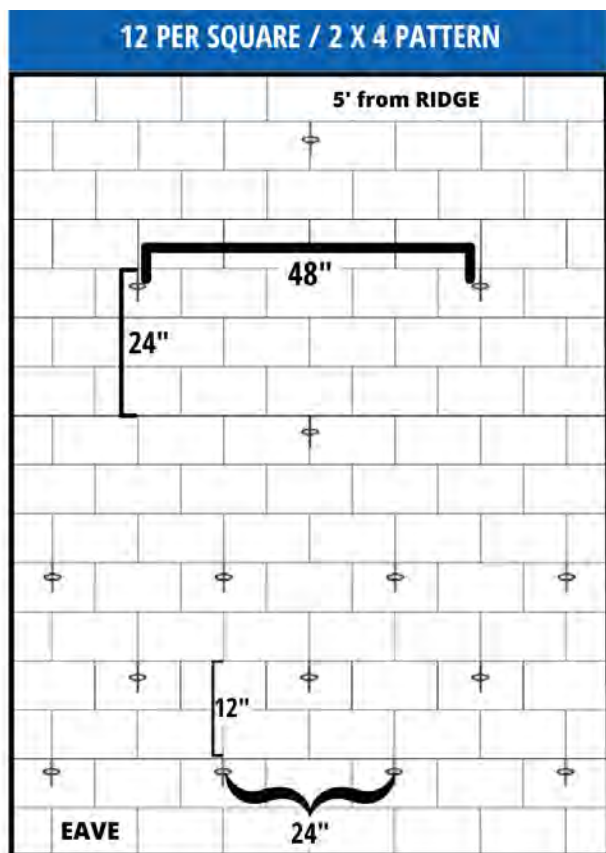
QUANTITIES FOR WIRE LOOP SNOW GUARD FOR NEW SLATE & SYNTHETIC SHINGLE ROOFING

PROJECT DETAIL			LAYOUT DETAILS		
Roof Pitch	Rafter Length	Ground Snow Load (psf)	Layout	Est. Snow Guard Qty	Spacing
8/12 or Less	15' or Less	60 psf or Less	3-Row Pattern	17 per 10' of Eave	3 rows, 24" on center horizontally with the middle row staggered 12". Rows vertically spaced every other course.
	Greater than 15'	60 psf or Less	2 x 4 Pattern	12 Per Roofing Square	Space rows 2' vertically by 4' horizontally to within 5' of the ridge.



New Synthetic Slate & Shake

F-Wave Revia



Document version 11.8.2022
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



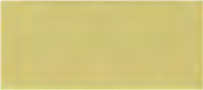
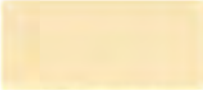
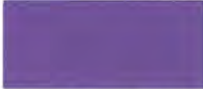
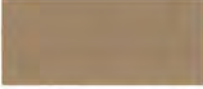
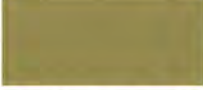
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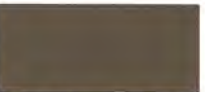
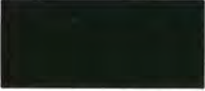
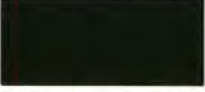
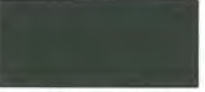
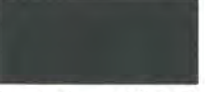
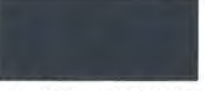
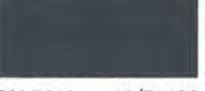
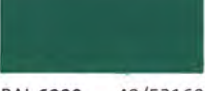
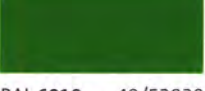
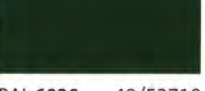
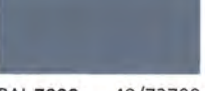
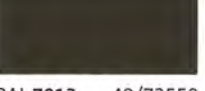
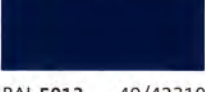
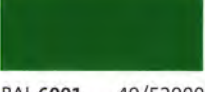
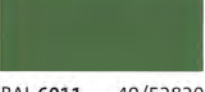
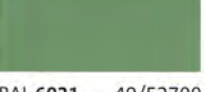
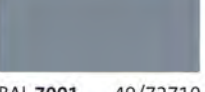
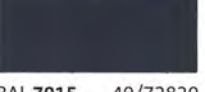
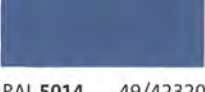
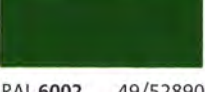
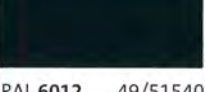
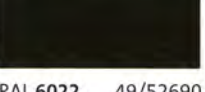
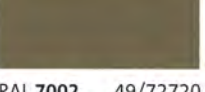
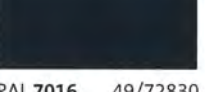
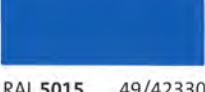
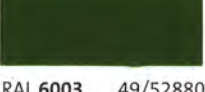
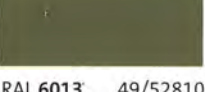
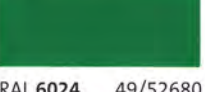
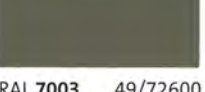
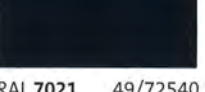
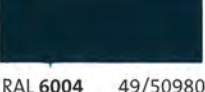
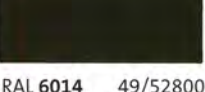
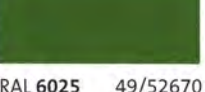
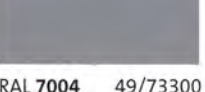
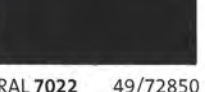
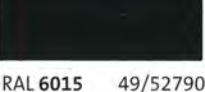
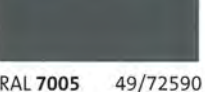
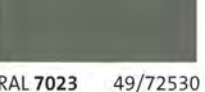
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16 Acrylic Hybrid
28 Super Durable Polyester
TGIC (for approved applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer
(for approved applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast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

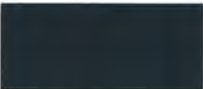
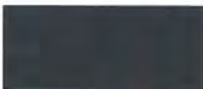
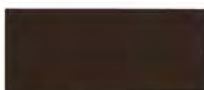
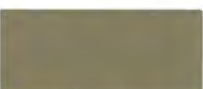
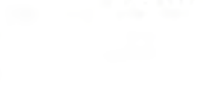


Color Group (starting with)

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
					
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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 1013 49/11280 38/10013	RAL 1028 49/22460	RAL 2010 49/24520 38/25001	RAL 3012 49/31940 38/30012	RAL 4002 49/31030 38/30008	RAL 5003 49/42230 38/40003
					
RAL 1014 49/15170 38/15014	RAL 1032 49/22450 38/20032	RAL 2011 49/24580	RAL 3013 49/31950 38/30013	RAL 4003 49/32270	RAL 5004 49/42240 38/40004

					
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