

PP235LS Ludowici Spanish Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Ludowici Spanish Tile

AVAILABLE MATERIALS

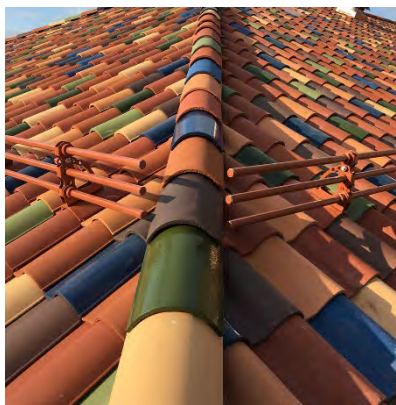
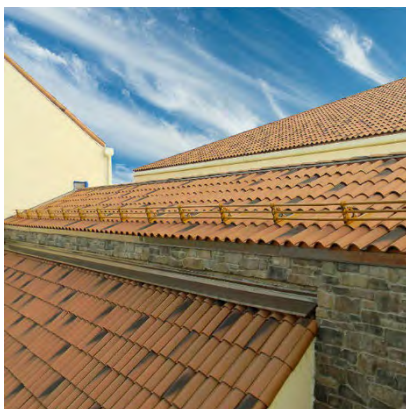
- Aluminum with Custom Aluminum Tile Base Plate and Aluminum Accessories (AL)
- Brass with Brass Tile Base Plate and Brass Accessories (BR)

AVAILABLE FINISHES

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

FEATURES/ADVANTAGES

- Height Adjustable - 39° of height adjustability allows for ease of installation and a custom setting
- Tile Base Plate is available in 2 lengths to match your tile: 13 ¼" L or 18 ¼" L (both lengths are 10 9/16" W overall)
- Overall measurements (Tile Base Plate with Bracket extended to tallest, most upright position): 13 ¼" L (or 18 ¼" L) x 10 9/16" W x 11 1/16" H
- Accepts 1" OD Pipe (Tubing)
- Compatible with the use of Ice Screens
- Internal and External Couplings, End Collars and End Caps are available for this system
- Designed specifically to match Ludowici Spanish Tile profile



Cut Sheet - PP235LSAL 13 OR 18

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](#).

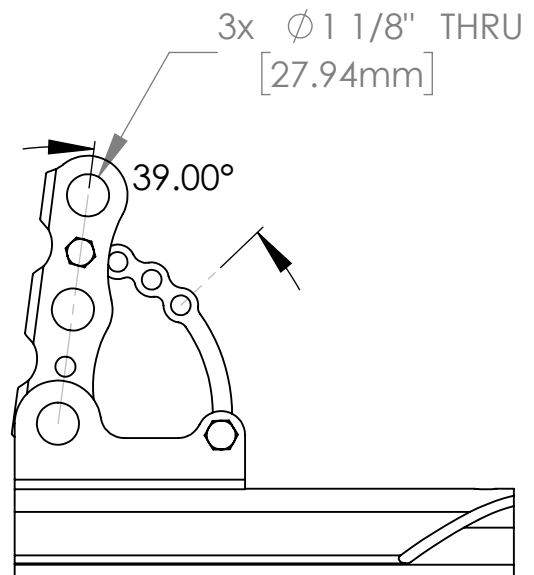
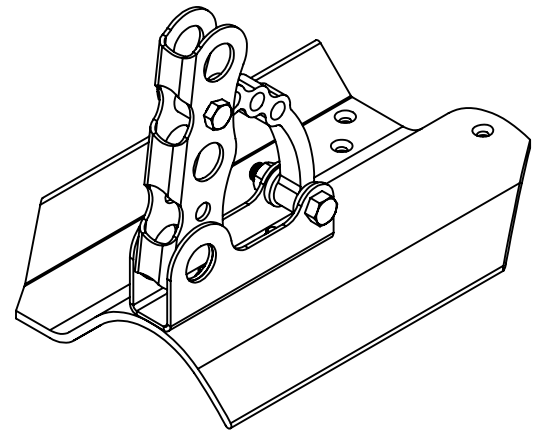
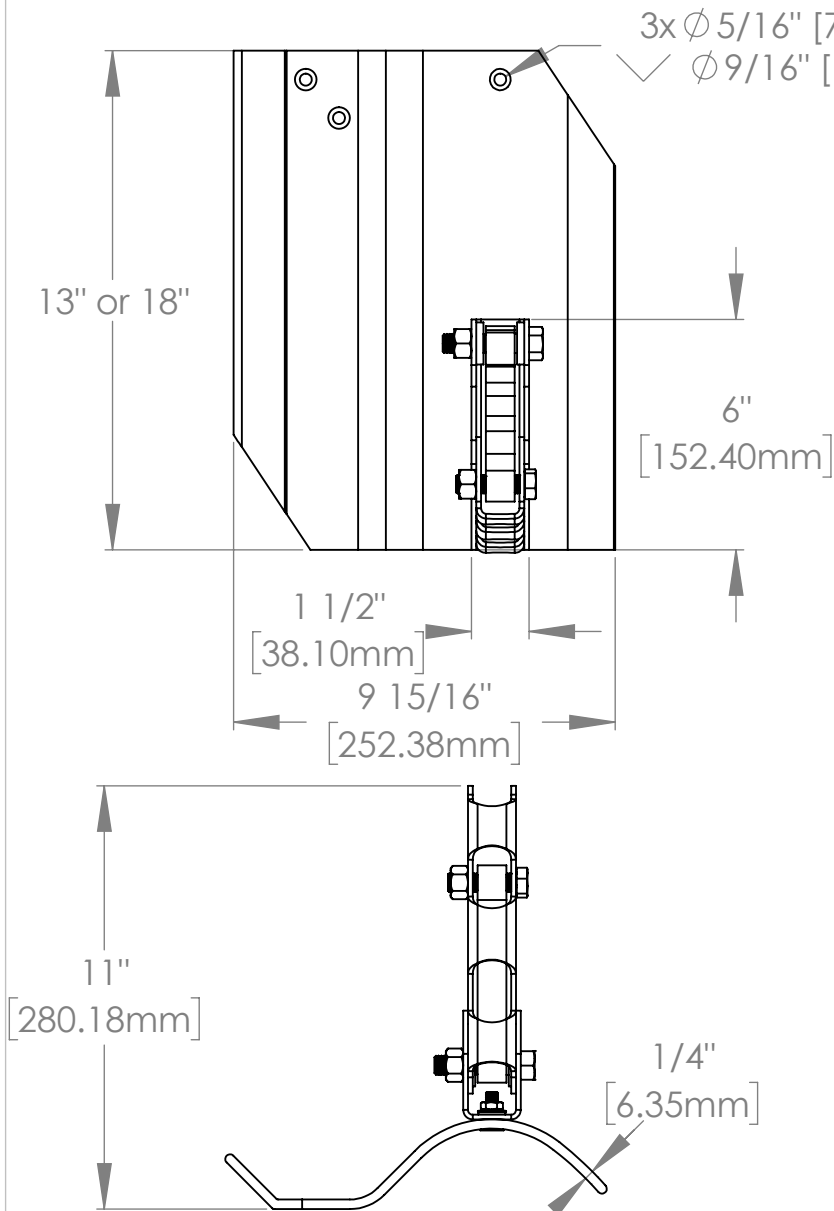
Quote #: _____

Signature: _____ Date: _____

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

Available Finishes

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



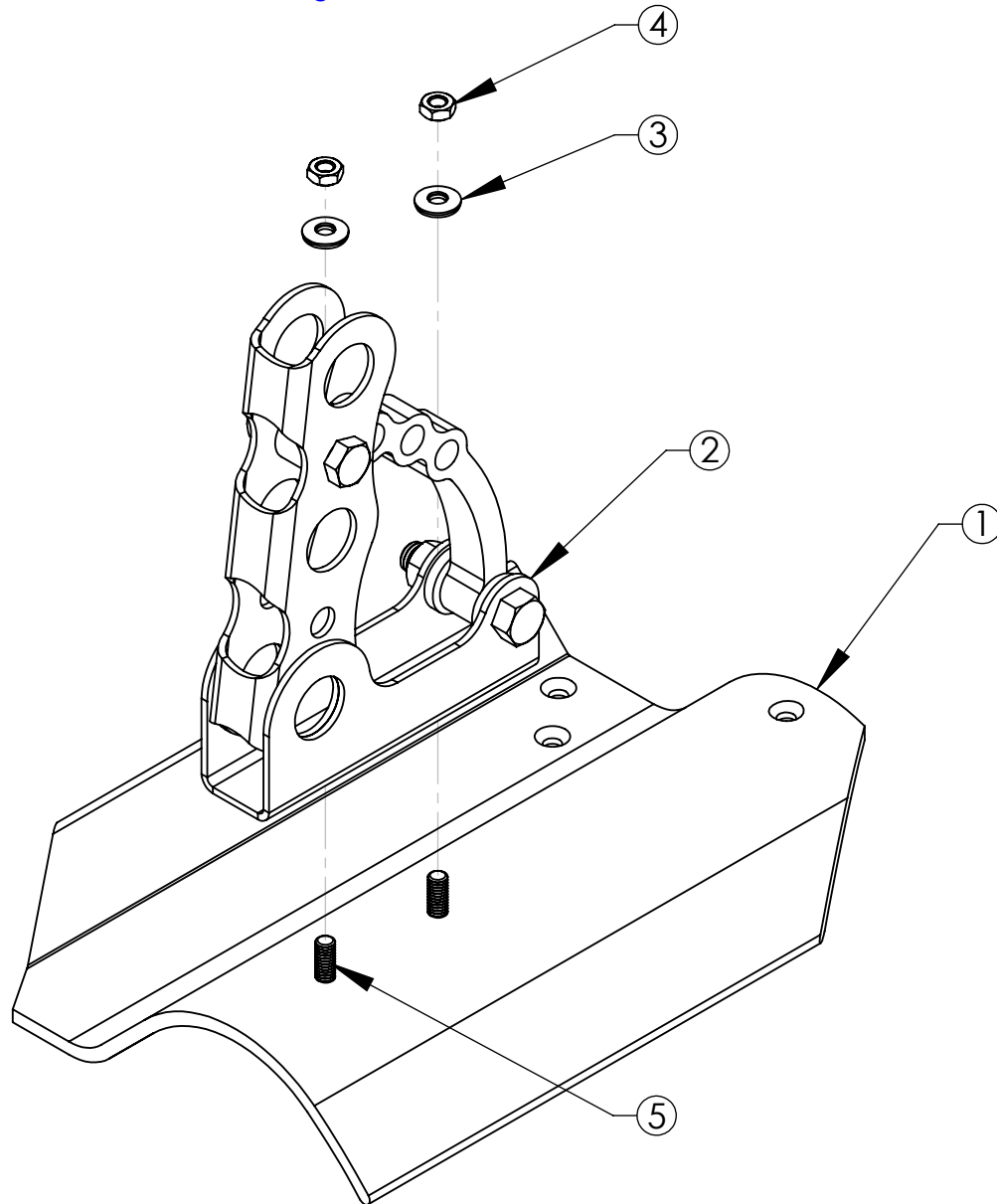
289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:5

2/16/2021

Assembly Sheet - PP235LSAL 13 OR 18

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	TILE-LUD-SPNSH-AL-13 OR 18	LUDOWICI SPANISH TILE 13" OR 18"-AL	1
2	PP225-AL-UPKIT	PP225 3PP BRACKET ONLY-AL	1
3	W-NEO SS-.313	SS NEO WASHER .313 ID	2
4	N-FL SS-.313-18	SS FLANGE NUT .313-18	2
5	B-FLT SS-.313-18X1	SS FLAT HEAD BOLT .3125-18X1	2



289 Harrel Street
Morrisville, VT 05661
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Scale: 1:3

2/16/2021



PP235 Ludowici Spanish (Aluminum) Snow Guard Specification Sheet

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP235LS 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 roof system

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 07600: Flashing and Sheet Metal. | MasterFormat 2016 07 60 00 |
| 2. Section 07310: Shingles. | MasterFormat 2016 07 31 00 |
| 3. Section 07320: Roofing Tiles. | MasterFormat 2016 07 32 00 |
| 4. Section 07720: Snow Guards. | MasterFormat 2016 07 72 00 |
| 5. Division 7: Thermal and Moisture Protection. | |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. PP235LS Snow guard system consists of snow guard bracket assembly and base tile.
2. Two bolts attach bracket to base plate.
3. PP75, tubing (Snow Fence)
4. Couplings.
 - a. PP84, external
 - b. PP86, internal
5. PP56, end caps
6. PP65, end collars
7. PP95, ice flags, optional
8. Fasteners
 - a. To be of metal compatible with snow guards.
 - b. Fasteners should be selected for compatibility with roof deck.
 - c. Fastener strength should exceed or be equal to that of snow guard system.

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 3 fasteners 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.



PP235 Ludowici Spanish (Aluminum) Snow Guard Specification Sheet

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. 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. Snow Guard Bracket – 5000 Series Aluminum.
- B. Base Tile – 6000 Series Extruded Aluminum.
- C. Bolts – 304 Stainless Steel.
- D. PP75, tubing – 6000 Series Aluminum, 1" outside diameter and .120" wall thickness, extruded.
- E. PP84 and PP86, external and internal couplings (choose one)
 - 1. Aluminum – 6000 Series
 - a. Internal and concealed coupling 3" long.
 - b. External and exposed coupling which can also serve as a 5" long expansion mechanism.
- F. PP56, end caps – 304 Stainless Steel.
- G. PP65, end collars – 6000 Series Aluminum.
- H. PP95, ice flags, optional – 6000 Series Aluminum 3" wide x length.
- I. Fasteners (can be purchased from others) to be compatible with chosen roof application and meet specified pull-out values as shown in load test data.

2.3 FINISH (choose one)

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

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 that 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 08.10.2021
07 72 53 Snow Guards



PP235 Ludowici Mission Tile (Brass) Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP235-MISSION 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 roof system

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 07600: Flashing and Sheet Metal. | MasterFormat 2016 07 60 00 |
| 2. Section 07310: Shingles. | MasterFormat 2016 07 31 00 |
| 3. Section 07320: Roofing Tiles. | MasterFormat 2016 07 32 00 |
| 4. Section 07720: Snow Guards. | MasterFormat 2016 07 72 00 |
| 5. Division 7: Thermal and Moisture Protection. | |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. PP235-MISSION Snow guard system consists of snow guard bracket assembly and base tile with snow guard base bracket welded to tile.
2. PP75, tubing
3. PP86, coupling
4. PP56, end caps
5. PP65, end collars
6. PP95, ice flags, optional
7. Fasteners
 - a. To be of metal compatible with snow guards.
 - b. Fasteners should be selected for compatibility with roof deck.
 - c. Fastener strength should exceed or be equal to that of snow guard system.

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 2 fasteners 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 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.



PP235 Ludowici Mission Tile (Brass) Specification Sheet Snow Guards

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. 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. Snow Guard Bracket

1. 260 Brass
2. Connector Component, C87500 silicon bronze 3/8" thick

B. Base Tile

1. 260 Brass.

C. PP75, tubing

1. Brass – 272 alloy, 1" outside diameter and 1/8" wall thickness;
330 alloy upon request.

D. PP86, coupling

1. Brass – 300 Series, Internal and concealed coupling 3" long.

E. PP56, end caps

1. Brass Plated Stainless Steel.

F. PP65, end collars

1. 260 Brass

G. PP95, ice flags, optional

1. 260 Brass

H. Fasteners (can be purchased from others) to be compatible with chosen roof applications and meet specified pull-out values as shown in load test data.

2.3 FINISH

A. Mill Finish – standard

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 that 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.

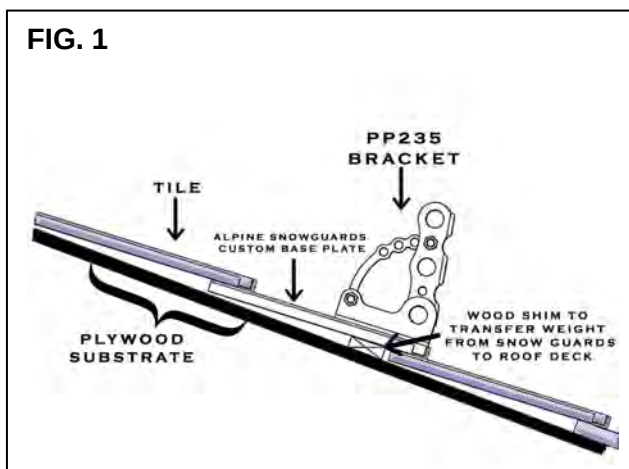
Document Version 12.19.2023
07 72 53 Snow Guards

PP235LS Ludowici Spanish Pipe-Style Snow Guard Installation Instructions for All Models (Ludowici Spanish, Mission, French, Flat & Other Custom Tile)

I. For Bolt-Down Style Brackets on Tile Roofs

- A. Brackets should be mounted to the base plate using the hex bolts provided (unless bolts are welded to base plate) before the base plate is screwed or bolted to the roof deck.
- B. Install wood shim to support base plate on roof deck. Size/location of the shim required varies by tile profile and roof installation method. (See Fig. 1)
- C. Base plates should be securely bolted or screwed to the roof in place of a tile.

Note: Consult with an engineer or fastener company to determine the fastener required to attach the base plate to the building structure.



- D. Install pipes, couplings, end caps and collars per Pipe Accessories Install document.

Snow guard layout for pipe style brackets

- Contact the manufacturer for detailed layout.
- Do not install runs of snow retention more than 100 feet 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.

Document version 12.19.2023
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

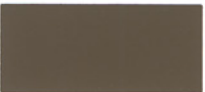
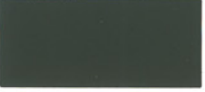
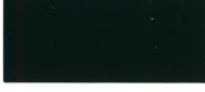
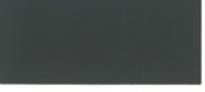
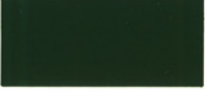
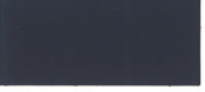
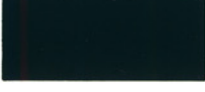
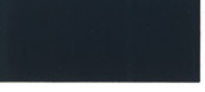
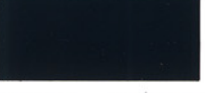
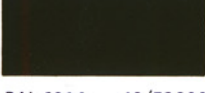
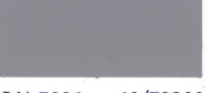
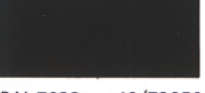
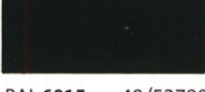
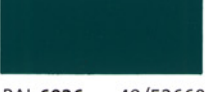
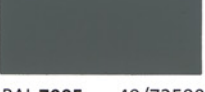
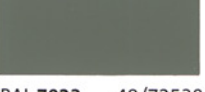
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16 Acrylic Hybrid
28 Super Durable Polyester
TGIC (for approved applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer
(for approved applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast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

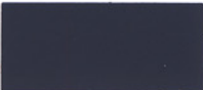
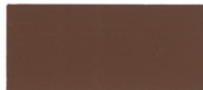
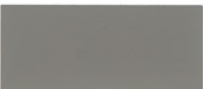
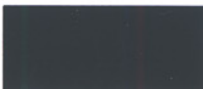
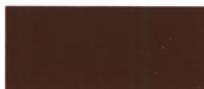
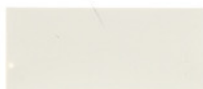
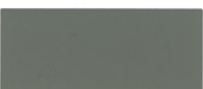
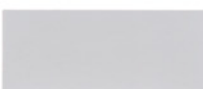
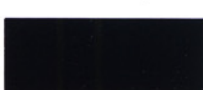


Color Group (starting with)

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
					
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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

					
RAL 5005 49/43190 38/40010	RAL 5019 49/42360 38/40019	RAL 6006 49/52870 38/50006	RAL 6016 49/51020 38/50016	RAL 6027 49/50990 38/50027	RAL 7006 49/72580 38/70006
					
RAL 5007 49/42250 38/40007	RAL 5020 49/44270 38/40018	RAL 6007 49/52860 38/50007	RAL 6017 49/52780 38/50017	RAL 6028 49/52650 38/50028	RAL 7008 49/72570 38/70008
					
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RAL 5009 49/42270 38/40009	RAL 5022 49/42390 38/40022	RAL 6009 49/52840 38/50009	RAL 6019 49/51000 38/50019	RAL 6032 49/52630 38/50032	RAL 7010 49/72560 38/70014
					
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RAL 5011 49/43180 38/40011	RAL 5024 49/44660 38/40024				
RAL 5012 49/43170 38/40012	RAL 6000 49/53160 38/50000	RAL 6010 49/52830 38/50031	RAL 6020 49/52710 38/50020	RAL 7000 49/72700 38/70000	RAL 7013 49/72550 38/70013
					
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RAL 5018 49/41140 38/40020	RAL 6005 49/50670 38/50002	RAL 6015 49/52790 38/50015	RAL 6026 49/52660 38/50026	RAL 7005 49/72590 38/70005	RAL 7023 49/72530 38/70023

			
RAL 7024 49/72870 38/70024	RAL 7040 49/75470 38/70046	RAL 8007 49/66120 38/60007	RAL 8025 49/66050 38/60025
			
RAL 7026 49/72880 38/70026	RAL 7042 49/73250 38/70042	RAL 8008 49/66110 38/60008	RAL 8028 49/66500 38/60028
			
RAL 7030 49/72890 38/70027	RAL 7043 49/72460 38/70043	RAL 8011 49/66100 38/60011	RAL 9001 49/10016 38/10001
			
RAL 7031 49/72520 38/70031	RAL 7044 49/75480 38/70044	RAL 8012 49/66090 38/60012	RAL 9002 49/70520 38/10002
			
RAL 7032 49/72910 38/70001	RAL 7045 49/77890 38/70045	RAL 8014 49/65230 38/60010	RAL 9003 49/11400 38/10003
			
RAL 7033 49/72510 38/70033	RAL 7046 49/72010 38/70002	RAL 8015 49/63040 38/60015	RAL 9004 49/81950 38/80004
			
RAL 7034 49/72500 38/70034	RAL 7047 49/72020 38/70047	RAL 8016 49/66080 38/60016	RAL 9005 49/82830 38/80010
			
RAL 7035 49/73510 38/70035	RAL 8000 49/66170 38/60000	RAL 8017 49/65220 38/60017	RAL 9010 49/11500 38/10004
			
RAL 7036 49/72950 38/70036	RAL 8001 49/66160 38/60005	RAL 8019 49/65490 38/60019	RAL 9011 49/80540 38/80001
			
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RAL 7039 49/71020 38/70039	RAL 8004 49/66130 38/60004	RAL 8024 49/66060 38/60024	RAL 9018 49/72490 38/10018

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