



## **PP235LFR Pipe-Style Snow Guard Submittal Document Set**

### **ROOF TYPES**

- New / Existing Ludowici French 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 for a customized setting on varying roof pitches
- Tile Base Plate measures 16 ½" L x 9" W x 2 ¼" H
- Overall measurements (Tile Base Plate with Bracket extended to tallest, most upright position): 16 ½" L x 9" W x 10 15/16" H
- 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
- Designed specifically to match Ludowici French Tile profile



# Cut Sheet - PP235LFR

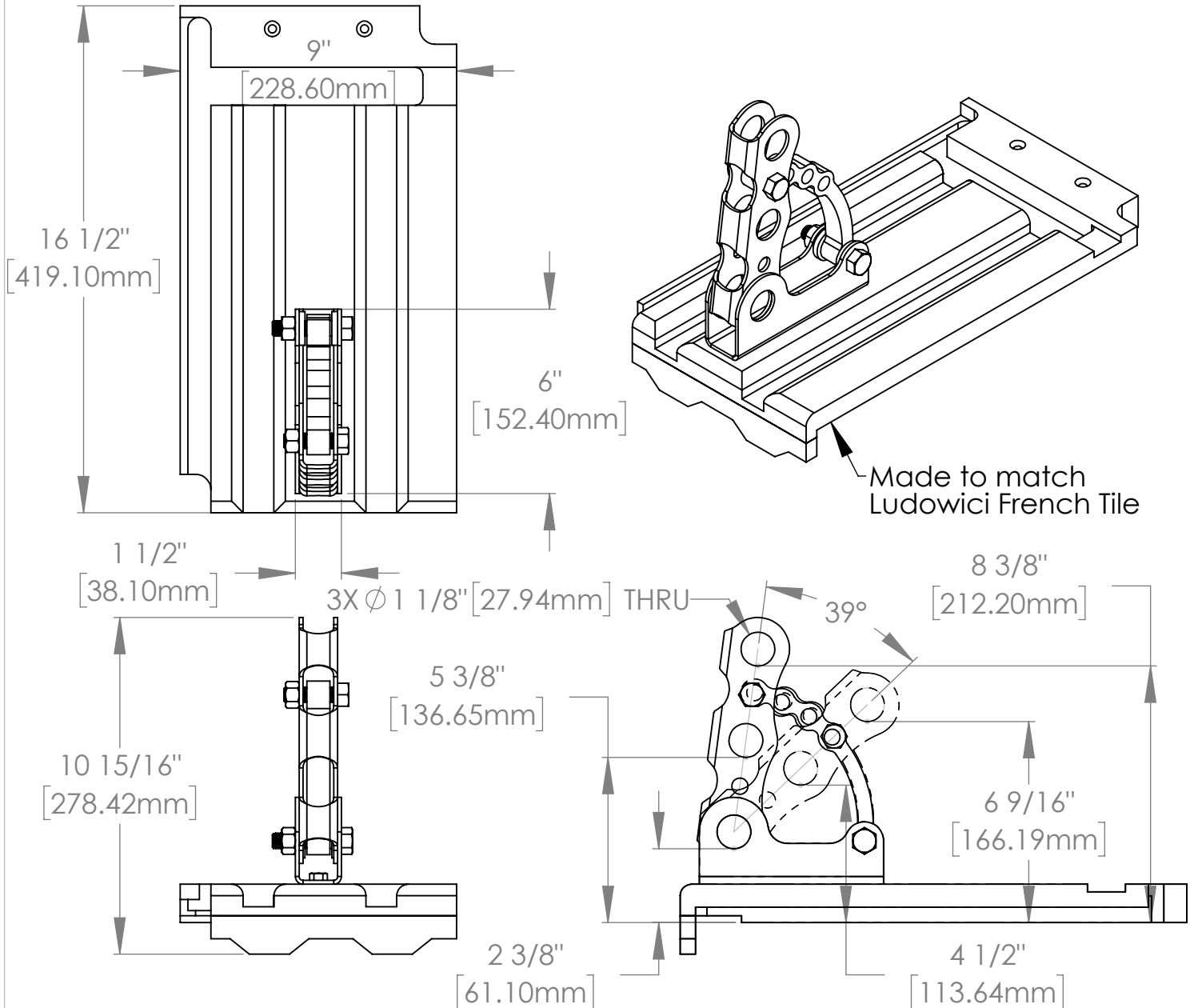
1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject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

## Available Materials

- ☐ Aluminum
- ☐ Steel

## Available Finishes

- ☐ Mill Finish (Standard)
- ☐ Powder Coated  
(Tiger Drylac RAL # \_\_\_\_\_)



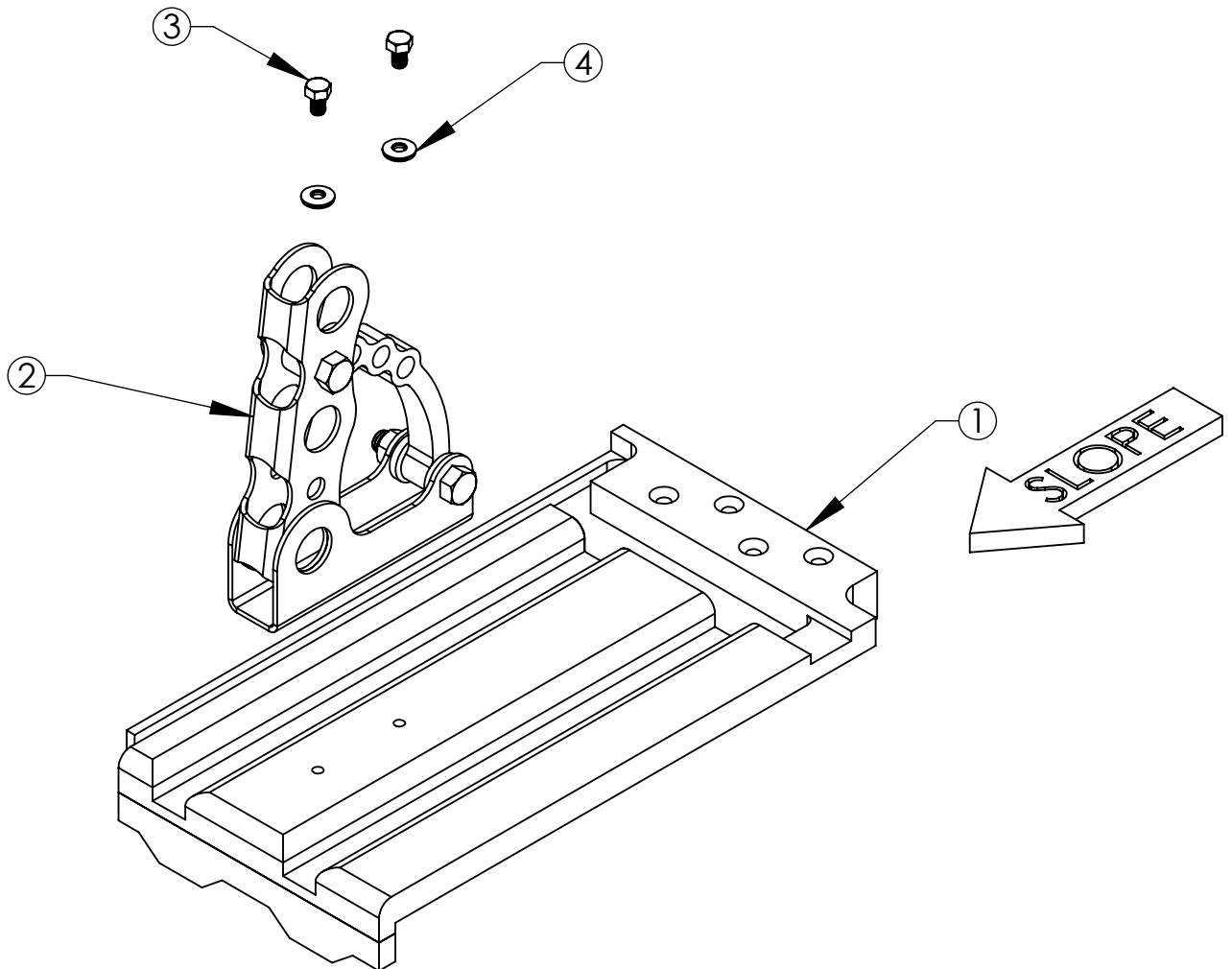
289 Harrel Street  
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Scale: 1:5

4/12/2021

# Assembly Sheet - PP235LFR

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-FRENCH-AL | 3PP LUDO FRENCH TILE ALUMINUM       | 1   |
| 2        | PP225-AL-UPKIT     | 225 3PP BRACKET ONLY-ALUMINUM       | 1   |
| 3        | B-HX SS-.313-18X.5 | STAINLESS STEEL HEX BOLT .3125-18X5 | 2   |
| 4        | W-NEO SS-.313      | SS NEO WASHER .313 ID               | 2   |



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Scale: 1:4

1/3/2022



## PP235 Ludowici French (Aluminum) Specification Sheet Snow Guards

### PART 1 – GENERAL

#### 1.1 SUMMARY

##### A. WORK INCLUDES

1. PP235LFR 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. PP235LFR Snow guard system consists of snow guard bracket assembly and base tile with (2) stainless steel nuts and (2) bonded stainless steel and EPDM washers.
2. PP75, tubing (Snow Fence)
3. Couplings.
  - a. PP84, external
  - b. PP86, internal
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 French (Aluminum) 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](http://www.alpinesnowguards.com)

#### 2.2 MATERIALS

- A. Snow Guard Bracket - 5000 Series Aluminum.
- B. Base Tile – 6000 Series Aluminum with two 5/16" 304 stainless steel machine screws.
- C. PP75, tubing (choose one)
  - 1. Aluminum – 6000 Series, 1" outside diameter and .120" wall thickness, extruded.
  - 2. Stainless Steel – 304 alloy, same dimensions as aluminum, welded.
- D. 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.
  - 2. Stainless Steel – 304 Series
    - a. Internal and concealed coupling 3" long.
    - b. External and exposed coupling which can also serve as a 5" long expansion mechanism.
- E. PP56, end caps - 304 Stainless Steel.
- F. PP65, end collars (choose one)
  - 1. 6000 Series Aluminum.
  - 2. 304 Stainless Steel.
- G. PP95, ice flags, optional (choose one)
  - 1. 6000 Series Aluminum 3" wide x length (as needed).
  - 2. 304 Stainless Steel.
- H. 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.



## **PP235 Ludowici French (Aluminum) Specification Sheet 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.

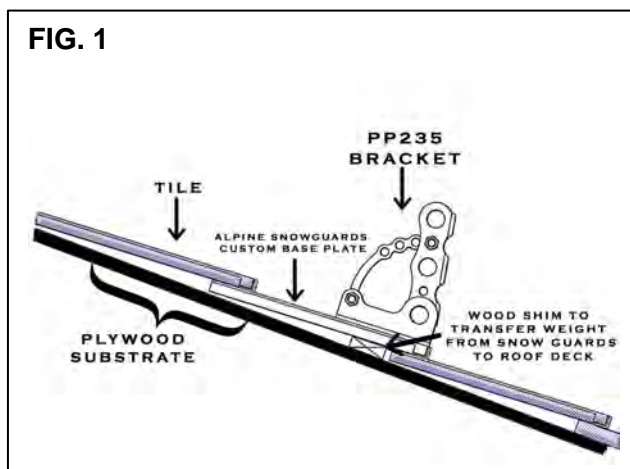
Document Version 08.10.2021  
07 72 53 Snow Guards

## 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](http://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](http://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






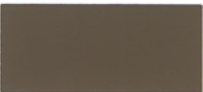











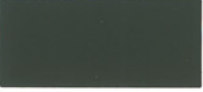


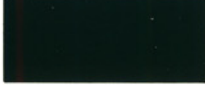


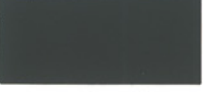










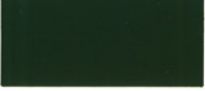







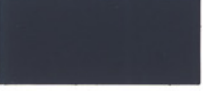


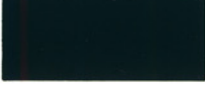


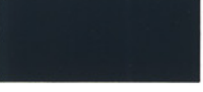





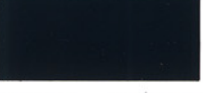


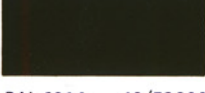

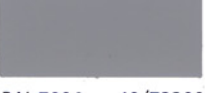
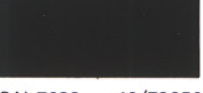


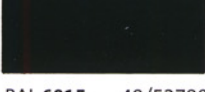
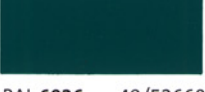
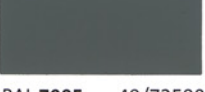
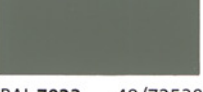
09 Polyester/Epoxy Hybrid  
16 Acrylic Hybrid  
28 Super Durable Polyester  
TGIC (for approved applicators only)  
39 Polyester TGIC  
44 Polyurethane  
49 Polyester TGIC  
59 Polyester TGIC-Free  
69 Epoxy  
75 Fluoropolymer  
(for approved applicators only)  
89 Polyester/Epoxy Hybrid,  
Low/Fast 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<br>38/15000                                                      | RAL 1015 49/15320<br>38/15015                                                       | RAL 1033 49/22240                                                                   | RAL 2012 49/24690                                                                    | RAL 3014 49/31080                                                                     | RAL 4004 49/31020<br>38/30024                                                         |
|    |    |    |    |    |    |
| RAL 1001 49/15190<br>38/15001                                                      | RAL 1016 49/22520<br>38/20016                                                       | RAL 1034 49/23910                                                                   | RAL 3000 49/33120<br>38/30000                                                        | RAL 3015 49/33670                                                                     | RAL 4005 49/42780                                                                     |
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| RAL 5007 49/42250<br>38/40007                                                       | RAL 5020 49/44270<br>38/40018                                                       | RAL 6007 49/52860<br>38/50007                                                       | RAL 6017 49/52780<br>38/50017                                                        | RAL 6028 49/52650<br>38/50028                                                         | RAL 7008 49/72570<br>38/70008                                                         |
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| RAL 5009 49/42270<br>38/40009                                                       | RAL 5022 49/42390<br>38/40022                                                       | RAL 6009 49/52840<br>38/50009                                                       | RAL 6019 49/51000<br>38/50019                                                        | RAL 6032 49/52630<br>38/50032                                                         | RAL 7010 49/72560<br>38/70014                                                         |
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|    |    |                                                                                     |                                                                                      |    |    |
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| RAL 5013 49/42310<br>38/40013                                                       | RAL 6001 49/52900<br>38/50005                                                       | RAL 6011 49/52820<br>38/50011                                                       | RAL 6021 49/52700<br>38/50021                                                        | RAL 7001 49/72710<br>38/70003                                                         | RAL 7015 49/72820<br>38/70015                                                         |
|  |  |  |  |  |  |
| RAL 5014 49/42320<br>38/40014                                                       | RAL 6002 49/52890<br>38/50023                                                       | RAL 6012 49/51540<br>38/50012                                                       | RAL 6022 49/52690<br>38/50022                                                        | RAL 7002 49/72720<br>38/70007                                                         | RAL 7016 49/72830<br>38/70016                                                         |
|  |  |  |  |  |  |
| RAL 5015 49/42330<br>38/40015                                                       | RAL 6003 49/52880<br>38/50003                                                       | RAL 6013 49/52810<br>38/50013                                                       | RAL 6024 49/52680<br>38/50024                                                        | RAL 7003 49/72600<br>38/70017                                                         | RAL 7021 49/72540<br>38/70021                                                         |
|  |  |  |  |  |  |
| RAL 5017 49/40760<br>38/40017                                                       | RAL 6004 49/50980<br>38/50004                                                       | RAL 6014 49/52800<br>38/50014                                                       | RAL 6025 49/52670<br>38/50025                                                        | RAL 7004 49/73300<br>38/70004                                                         | RAL 7022 49/72850<br>38/70022                                                         |
|  |  |  |  |  |  |
| RAL 5018 49/41140<br>38/40020                                                       | RAL 6005 49/50670<br>38/50002                                                       | RAL 6015 49/52790<br>38/50015                                                       | RAL 6026 49/52660<br>38/50026                                                        | RAL 7005 49/72590<br>38/70005                                                         | RAL 7023 49/72530<br>38/70023                                                         |



|                                                                                    |                                                                                     |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|     |     |     |     |
| RAL 7024 49/72870<br>38/70024                                                      | RAL 7040 49/75470<br>38/70046                                                       | RAL 8007 49/66120<br>38/60007                                                       | RAL 8025 49/66050<br>38/60025                                                        |
|    |    |    |    |
| RAL 7026 49/72880<br>38/70026                                                      | RAL 7042 49/73250<br>38/70042                                                       | RAL 8008 49/66110<br>38/60008                                                       | RAL 8028 49/66500<br>38/60028                                                        |
|    |    |    |    |
| RAL 7030 49/72890<br>38/70027                                                      | RAL 7043 49/72460<br>38/70043                                                       | RAL 8011 49/66100<br>38/60011                                                       | RAL 9001 49/10016<br>38/10001                                                        |
|    |    |    |    |
| RAL 7031 49/72520<br>38/70031                                                      | RAL 7044 49/75480<br>38/70044                                                       | RAL 8012 49/66090<br>38/60012                                                       | RAL 9002 49/70520<br>38/10002                                                        |
|    |    |    |    |
| RAL 7032 49/72910<br>38/70001                                                      | RAL 7045 49/77890<br>38/70045                                                       | RAL 8014 49/65230<br>38/60010                                                       | RAL 9003 49/11400<br>38/10003                                                        |
|    |    |    |    |
| RAL 7033 49/72510<br>38/70033                                                      | RAL 7046 49/72010<br>38/70002                                                       | RAL 8015 49/63040<br>38/60015                                                       | RAL 9004 49/81950<br>38/80004                                                        |
|  |  |  |  |
| RAL 7034 49/72500<br>38/70034                                                      | RAL 7047 49/72020<br>38/70047                                                       | RAL 8016 49/66080<br>38/60016                                                       | RAL 9005 49/82830<br>38/80010                                                        |
|  |  |  |  |
| RAL 7035 49/73510<br>38/70035                                                      | RAL 8000 49/66170<br>38/60000                                                       | RAL 8017 49/65220<br>38/60017                                                       | RAL 9010 49/11500<br>38/10004                                                        |
|  |  |  |  |
| RAL 7036 49/72950<br>38/70036                                                      | RAL 8001 49/66160<br>38/60005                                                       | RAL 8019 49/65490<br>38/60019                                                       | RAL 9011 49/80540<br>38/80001                                                        |
|  |  |  |  |
| RAL 7037 49/72480<br>38/70037                                                      | RAL 8002 49/66150<br>38/60002                                                       | RAL 8022 49/63080<br>38/60022                                                       | RAL 9016 49/11340<br>38/10010                                                        |
|  |  |  |  |
| RAL 7038 49/72470<br>38/70038                                                      | RAL 8003 49/66140<br>38/60003                                                       | RAL 8023 49/66070<br>38/60023                                                       | RAL 9017 49/80550<br>38/80017                                                        |
|  |  |  |  |
| RAL 7039 49/71020<br>38/70039                                                      | RAL 8004 49/66130<br>38/60004                                                       | RAL 8024 49/66060<br>38/60024                                                       | RAL 9018 49/72490<br>38/10018                                                        |

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