



## **PD80 and PD80-IPR Pad-Style Snow Guard Submittal Document Set**

### **ROOF TYPES**

- New / Existing Metal Corrugated or Ribbed

### **AVAILABLE MATERIALS**

- Aluminum 6000 Series (AL)
- 1010 or 1020 Steel

### **AVAILABLE FINISHES**

- Mill Finish
- RAL TIGER Drylac® powder coating options (additional charge)

### **FEATURES/ADVANTAGES**

- Fastens to top of corrugation
- "Saddle" design holds back snow and ice while allowing melt-off and rain to flow through
- Available in a multitude of RAL TIGER Drylac® Exterior Powder Coating Colors
- Designed to move the standard penetration point from water drain channel to top of rib, minimizing possibility of water infiltration
- Ease of installation - can use existing fastener holes along roofs' ribs, placing penetration points above surface of the panel
- Protects against snow damage at lower roof level (gutters, valleys, crickets, roof protrusions, plumbing vents, etc) and at ground level (cars, people, landscaping, pets, walkways, ground mounted mechanical units)



# Cut Sheet - PD80

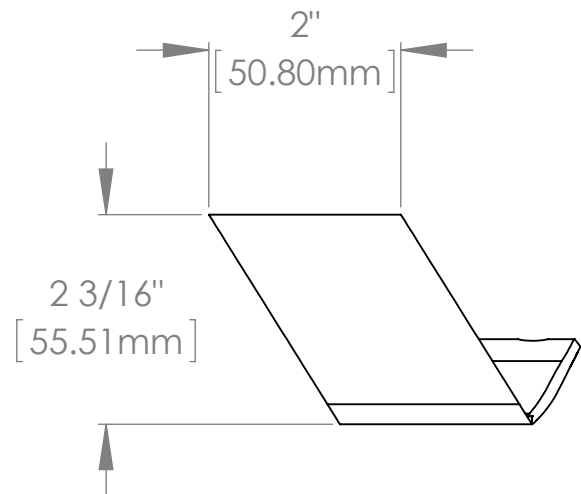
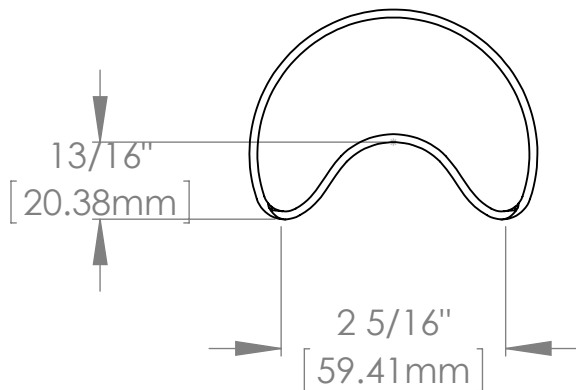
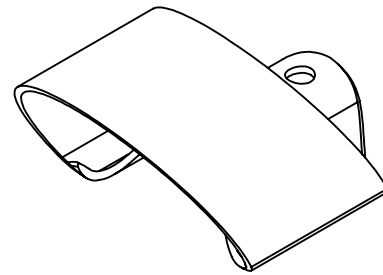
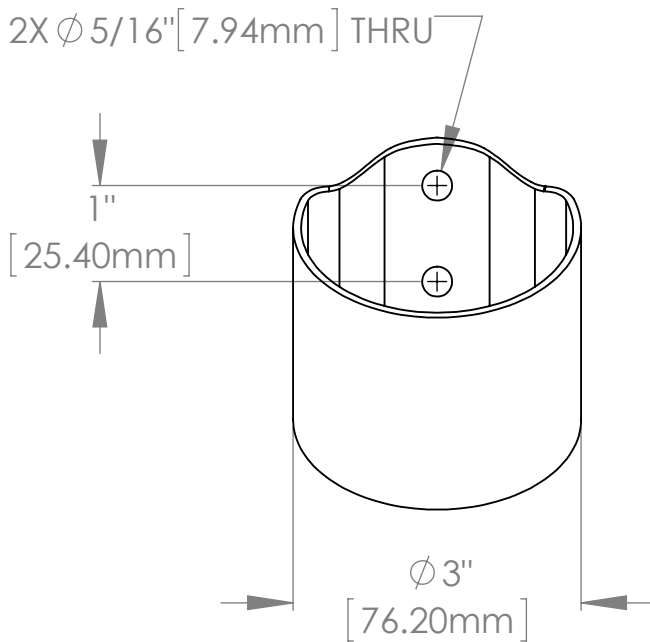
1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject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

## Available Materials

- ☐ Aluminum
- ☐ Steel

## Available Finishes

- ☐ Mill Finish (Standard)
- ☐ Powder Coating  
(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](mailto:Info@alpinesnowguards.com)

Scale: 1:2

10/5/2020

# Cut Sheet - PD80-IPR

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
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## Available Materials

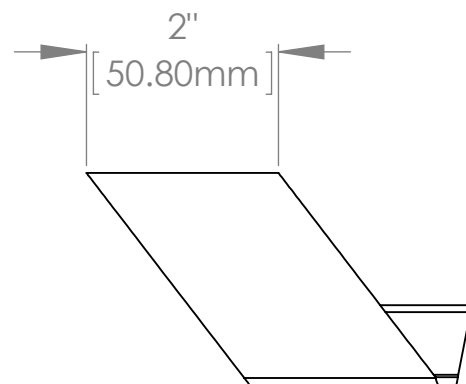
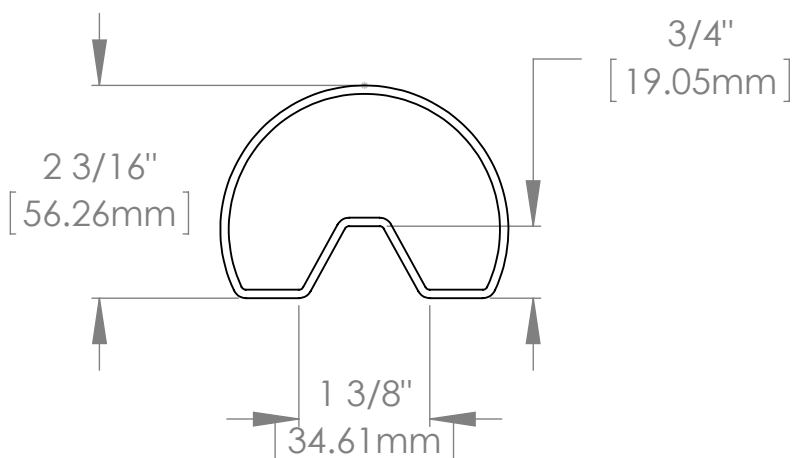
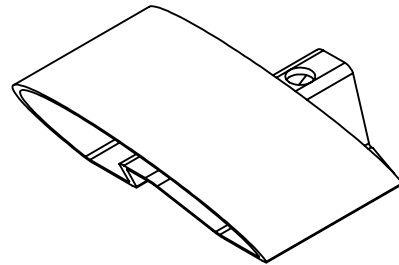
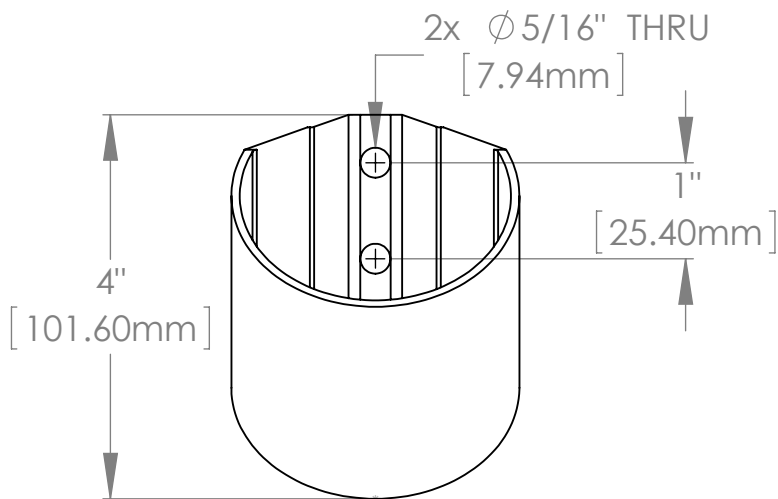
☐ Aluminum

☐ Steel

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## **PD80 and PD80-IPR Specification Sheet Snow Guards**

### **PART 1 – GENERAL**

#### **1.1 SUMMARY**

##### **A. WORK INCLUDES**

1. PD80 snow guard that attaches directly to the roof deck.
2. Coordinate with the installation of the roof to assure proper placement of the snow guards.
3. Provide appropriate snow guard and fasteners for the roof system

##### **B. RELATED SECTIONS**

- |                                             |                            |
|---------------------------------------------|----------------------------|
| 1. Section 077200: Roof Accessories         | MasterFormat 2016 07 72 00 |
| 2. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 3. Section 076100: Sheet Metal Roofing      | MasterFormat 2016 07 61 00 |
| 4. Section 077253: Snow Guards              | MasterFormat 2016 07 72 53 |

#### **1.2 SYSTEM DESCRIPTION**

##### **A. COMPONENTS**

1. PD80 snow guard system consists of individual metal snow guards.  
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. Minimum 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 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.



## **PD80 and PD80-IPR 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](http://www.alpinesnowguards.com).

#### **2.2 MATERIALS (choose one)**

- A. 6063-T52 Aluminum with 0.083 wall thickness.
- B. 1010 or 1020 Steel with 0.083 wall thickness.

#### **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.
  - 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

## PD80 and PD80-IPR Snow Guard Installation Instructions

### ROOF TYPES

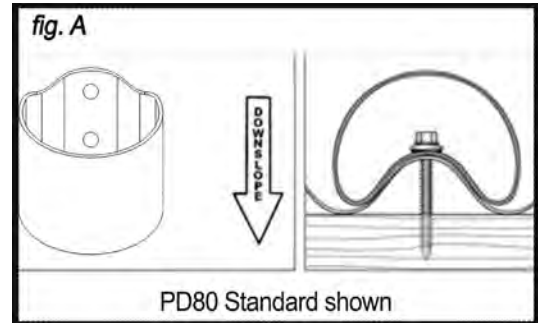
- New / Existing Metal Corrugated or Ribbed

**Note:** Orientation of the snow guard is so the fastener holes are upslope.

**Note:** If using the Aluminum PD80 on a raw steel roof, butyl tape or some other barrier should be used to keep the Aluminum from coming into contact with the steel.

### INSTALLATION

1. Determine where on the panel the snow guard is to be set (layout information is below). The first row should be placed above the exterior supporting wall, not on the overhang.
2. Use an appropriate architect-approved clear sealant under the snow guard.
3. Place two appropriate fasteners through the snow guard, through the roof panel at the top of the corrugation and into the roof structure below (*fig. A*).

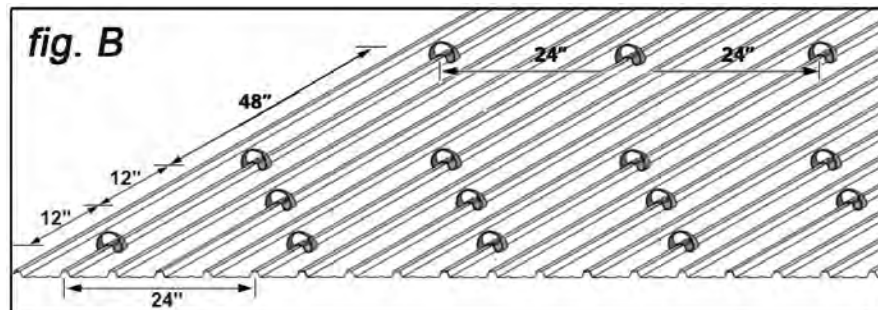


### STANDARD SNOW GUARD LAYOUT OPTIONS

**IMPORTANT** All layouts begin with a 3-row pattern. Estimated quantities provided include 3-row pattern. If you have any questions, please contact us at 888-766-4273. Please use the guidelines below to determine the appropriate layout for your installation.

| Layout*       | Rafter Length  | Ground Snow Load | Roof Pitch    | Est. Snow Guard Qty   | Spacing                                                                                                     |
|---------------|----------------|------------------|---------------|-----------------------|-------------------------------------------------------------------------------------------------------------|
| 3-Row Pattern | 15' or less    | 75 psf or less   | 16/12 or less | 17 per 10' of eave    | 3 rows, 24" on center horizontally with the middle row staggered 12" (or as panel rib spacing dictates).    |
| 4x2 Pattern   | 15' or greater | 75 psf or less   | 16/12 or less | 12 per roofing square | Space rows 4' vertically and 2' horizontally to within 10' of the ridge (or as panel rib spacing dictates). |

\*If your roof is outside of the above parameters, please contact Alpine SnowGuards.



Document version 03.18.2020  
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



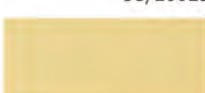
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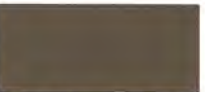
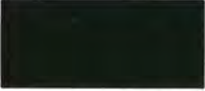
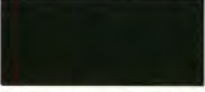
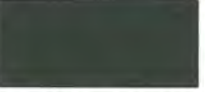
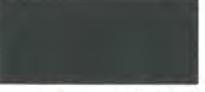
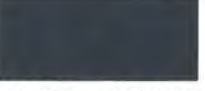
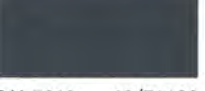
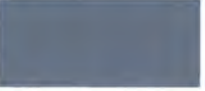
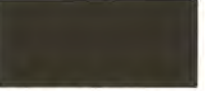
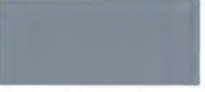
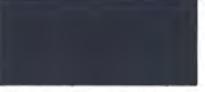
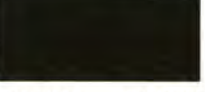
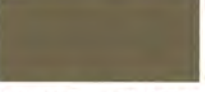
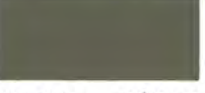
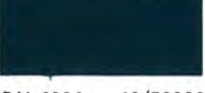
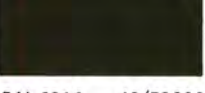
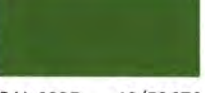
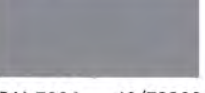
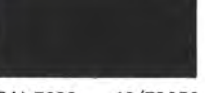
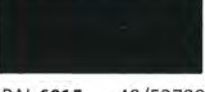
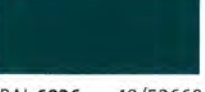
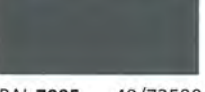
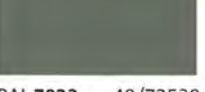
09 Polyester/Epoxy Hybrid  
16 Acrylic Hybrid  
28 Super Durable Polyester  
TGIC (for approved applicators only)  
39 Polyester TGIC  
44 Polyurethane  
49 Polyester TGIC  
59 Polyester TGIC-Free  
69 Epoxy  
75 Fluoropolymer  
(for approved applicators only)  
89 Polyester/Epoxy Hybrid,  
Low/Fast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

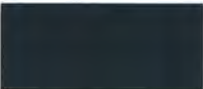
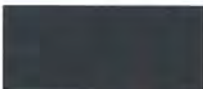
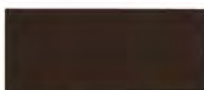
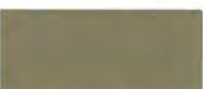
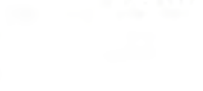


### Color Group (starting with)

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                                                                     |
|    |    |    |    |    |    |
| RAL 1002 49/22590<br>38/20002                                                      | RAL 1017 49/22510<br>38/20017                                                       | RAL 1037 49/20096                                                                   | RAL 3001 49/31120<br>38/30001                                                        | RAL 3016 49/31980<br>38/30016                                                         | RAL 4006 49/32090                                                                     |
|    |    |    |    |    |    |
| RAL 1003 49/22580                                                                  | RAL 1018 49/21830<br>38/20018                                                       | RAL 2000 49/24570                                                                   | RAL 3002 49/31110<br>38/30002                                                        | RAL 3017 49/31060                                                                     | RAL 4007 49/32540<br>38/30025                                                         |
|    |    |    |    |    |    |
| RAL 1004 49/22570<br>38/20004                                                      | RAL 1019 49/13660<br>38/15019                                                       | RAL 2001 49/24560<br>38/23170                                                       | RAL 3003 49/31100<br>38/30003                                                        | RAL 3018 49/31050                                                                     | RAL 4008 49/32280                                                                     |
|    |    |    |    |    |    |
| RAL 1005 49/22560<br>38/20005                                                      | RAL 1020 49/22500<br>38/20020                                                       | RAL 2002 49/24550<br>38/25002                                                       | RAL 3004 49/33900<br>38/30004                                                        | RAL 3020 49/31040<br>38/30021                                                         | RAL 4009 49/34740                                                                     |
|  |  |  |  |  |  |
| RAL 1006 49/22550<br>38/20006                                                      | RAL 1021 49/22280<br>38/20021                                                       | RAL 2003 49/24540                                                                   | RAL 3005 49/31900<br>38/30005                                                        | RAL 3022 49/33700                                                                     | RAL 4010 49/40490                                                                     |
|  |  |  |  |  |  |
| RAL 1007 49/22540                                                                  | RAL 1023 49/22490<br>38/20023                                                       | RAL 2004 49/24530                                                                   | RAL 3007 49/31910<br>38/30007                                                        | RAL 3027 49/33660                                                                     | RAL 5000 49/42200<br>38/40000                                                         |
|  |  |  |  |  |  |
| RAL 1011 49/15180<br>38/15011                                                      | RAL 1024 49/22480<br>38/20024                                                       | RAL 2008 49/24340                                                                   | RAL 3009 49/31920<br>38/30009                                                        | RAL 3031 49/34730<br>38/30031                                                         | RAL 5001 49/42210<br>38/40001                                                         |
|  |  |  |  |  |  |
| RAL 1012 49/22530<br>38/20012                                                      | RAL 1027 49/22470<br>38/20027                                                       | RAL 2009 49/24360                                                                   | RAL 3011 49/31090<br>38/30011                                                        | RAL 4001 49/43160                                                                     | RAL 5002 49/42220<br>38/40002                                                         |
|  |  |  |  |  |  |
| RAL 1013 49/11280<br>38/10013                                                      | RAL 1028 49/22460                                                                   | RAL 2010 49/24520<br>38/25001                                                       | RAL 3012 49/31940<br>38/30012                                                        | RAL 4002 49/31030<br>38/30008                                                         | RAL 5003 49/42230<br>38/40003                                                         |
|  |  |  |  |  |  |
| RAL 1014 49/15170<br>38/15014                                                      | RAL 1032 49/22450<br>38/20032                                                       | RAL 2011 49/24580                                                                   | RAL 3013 49/31950<br>38/30013                                                        | RAL 4003 49/32270                                                                     | RAL 5004 49/42240<br>38/40004                                                         |

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|     |     |     |     |     |     |
| RAL 5005 49/43190<br>38/40010                                                       | RAL 5019 49/42360<br>38/40019                                                       | RAL 6006 49/52870<br>38/50006                                                       | RAL 6016 49/51020<br>38/50016                                                        | RAL 6027 49/50990<br>38/50027                                                         | RAL 7006 49/72580<br>38/70006                                                         |
|    |    |    |    |    |    |
| 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                                                         |
|    |    |    |    |    |    |
| RAL 5008 49/42260<br>38/40008                                                       | RAL 5021 49/41190<br>38/40021                                                       | RAL 6008 49/53240<br>38/50008                                                       | RAL 6018 49/52720<br>38/50018                                                        | RAL 6029 49/52640<br>38/50029                                                         | RAL 7009 49/72770<br>38/70009                                                         |
|    |    |    |    |    |    |
| 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                                                         |
|    |    |  |                                                                                      |    |    |
| RAL 5010 49/42280<br>38/40016                                                       | RAL 5023 49/44650<br>38/40023                                                       |                                                                                     |                                                                                      | RAL 6033 49/55010<br>38/50033                                                         | RAL 7011 49/72790<br>38/70011                                                         |
|    |    |                                                                                     |                                                                                      |    |    |
| RAL 5011 49/43180<br>38/40011                                                       | RAL 5024 49/44660<br>38/40024                                                       |  |  |  |  |
| RAL 5012 49/43170<br>38/40012                                                       | RAL 6000 49/53160<br>38/50000                                                       | RAL 6010 49/52830<br>38/50031                                                       | RAL 6020 49/52710<br>38/50020                                                        | RAL 7000 49/72700<br>38/70000                                                         | RAL 7013 49/72550<br>38/70013                                                         |
|  |  |  |  |  |  |
| 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                                                         |

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|     |     |     |     |
| 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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