

SHOP DRAWING REVIEW FORM AND TRANSMITTAL

DATE: September 15, 2021

TO: Carl Hendrickson
Project Manager
Veolia Water
825 West Water Street
Taunton, MA 02780

FROM: Michael Andrus, P.E.
Project Manager
BETA Group, Inc.
701 George Washington Hwy
Lincoln, Rhode Island 02865

RE: City of Taunton, MA
WWTF Solids Handling Improvements
Contract S-2020-3

Shop Drawing No. 08331-001 REV A – Overhead Coiling Door

BETA COMMENTS:

<u>Item</u>	<u>Action Code</u>	<u>Description/Comments</u>
1	2	Overhead Coiling Door (Cornell ESD-20) <ol style="list-style-type: none">1. Door color shall be white to match other existing garage doors.2. Submit documentation of compliance with the American Iron and Steel (AIS) requirements of P.L. 113-76, the Consolidated Appropriations Act of 2014. All “iron and steel products” shall be produced in the United States.

Action Codes

- 1 - No Exception Taken
- 2 - Make Corrections Noted
- 3 - Amend and Resubmit
- 4 - Rejected, See Remarks
- 5 - Record File Only

- a. Installation shall proceed only when Action Code is ‘1’ or ‘2’.
- b. Submittals action coded ‘3’ shall be resubmitted within time limit set in Contract.
- c. Review does not relieve Contractor from responsibility of compliance with the Contract Documents.



PROJECT: 9722. - Veolia/Taunton WWTP Solids Handling Improvements

DATE: 09/06/2021

SUBMITTAL: 08331-001 - Overhead Coiling Door

REVISION: a

STATUS: New

SPEC #: 08311

TO:
Carl Hendrickson
 Veolia North America
 125 S. 84th Street, Suite 175
 Milwaukee, WI 53214
 carl.hendrickson@veolia.com

FROM:
Christiaan George
 Hart Engineering Corporation
 800 Scenic View Drive
 Cumberland, RI 02864
 cgeorge@hartcompanies.com

Item	Revision	Description	Status	Date Sent	Date Returned
08311-001	A	Overhead Coiling Door	New	09/06/2021	
Notes:					

SHOP DRAWING REVIEW	
<input type="checkbox"/> 1 - Approved	<input checked="" type="checkbox"/> 2 - Approved as Noted
<input type="checkbox"/> 3 - Revise and Resubmit	<input type="checkbox"/> 4 - Rejected
<input type="checkbox"/> 5 - Record File Only - No Action Taken	
(Above Check Designates Action Code - See Review Comments)	
IMPORTANT NOTE FOR CONTRACTOR	
Review is only for general compliance with the design concept and information provided in Contract Documents. Corrections and comments made on the Shop Drawings during review do not relieve the Contractor from compliance with the requirements of the plans and specifications. Review and/or approval of a specific item shall not include review or approval of an assembly of which the item is a component. No approval or correction of a Shop Drawing shall be construed as an order for extra work. The Contractor is responsible for: all quantities and dimensions to be confirmed and correlated; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all trades and subcontractors; and performing all Work in a safe and satisfactory manner.	
BETA GROUP, INC.	Checked By: <u>BM</u>
By: <u>Mike Andrus</u>	Date: <u>9/15/2021</u>

Additional Notes:

Status Codes

- 1-APP - No Exceptions Taken
- 2-ANR - Make Corrections Noted
- 3-R&R - Revise and Resubmit
- 4-REJ - Rejected
- 5-IPO - For Information Purposes Only
- 6-NRR - Not Required for Review
- ENG - Submitted to Engineer

Sincerely,
 Hart Engineering Corporation

DATE: _____ 09/06/2021 _____



Project Submittals Shop Drawings and Documentation

Project

Taunton Solids Handling

General Contractor

Hart Engineering

Products Included in this Submittal

Rolling Steel Door

INSULATED ROLLING DOOR

THERMISER® DOOR

Models ESD20



MAINTAIN TEMPERATURES AND REDUCE SOUND TRANSMISSION

ENERGY-EFFICIENT CLIMATE CONTROL

Thermiser Insulated Rolling Doors, designed for exterior use, help maintain different temperatures on each side of the door. They are an ideal choice for use in environments that require climate control, security, and durability; distribution, industrial, hospitality, retail and more.

PERFORMANCE

Thermiser doors roll up compactly, require little to no maintenance and deliver a low life cycle cost. It can be configured to meet a maximum operational windload of 20 PSF. We also warrant this door for 50,000 cycles as standard.

SEAL THE BUILDING ENVELOPE

Foamed in place insulation offers superior protection against the elements, improved security and reduced sound transmission. The Thermiser helps seal the building envelope and keeps noise in or out.

REDUCES SOUND TRANSMISSION

Sound Transmission Class (STC) rating is up to 30 for the curtain and up to 18 for the entire assembly. If an STC of 32 is desired, additional options are required. Please consult the factory for details. All configurations are evaluated per ASTM E90, based on testing a complete, operable assembly.

800.233.8366 | cornelliron.com

CornellCookson, LLC. is an ISO 9001:2015 registered company
3.3021

CORNELL
Innovative door solutions®

WATERPROOF SERIES SG OPERATOR

Designed for

NEMA 4X Applications

Standard Features and Benefits

- Suitable for low pressure direct spray
- Compact operator/mounting configuration is ideal for coiling doors - operators always fit within the coil height dimension
- Consistent mounting, appearance and wiring - across full line of operator models
- Considerably lighter weight than competitive gear-head operator models
- Auxiliary chain for emergency operation, just pull to operate
- UL Listed
- Programmable Seven segment LED display
- Cycle counter
- Terminal connection for a monitored entrapment protection device
- Programmable timer to close
- Mid-open timer, open warning timer
- Onboard open and close limit signaling connections
- 24 VDC close warning output signal
- On board Open/Close/Stop buttons
- Close override if the entrapment protection device short circuits



Standard Components

Drive Reduction: Lubricated, heavy-duty gears.

Auto-Reset Thermal Protection: Prevents motor burnout.

Limit Switches: Linear driven, fully adjustable screw-type cams.

Operator Safety Feature: Activating “Open,” “Stop” or a remote transmitter button stops the movement of a closing door.

Pre-Wired for Sensing Edge/Sensing Devices: A sensing edge, photo eyes or other detection devices can be easily connected. Standard one second time delay prior to reversing prevents damage to door and operator.

Standard Exterior Radio Control Terminal: Provides for easy and fast connection of radio controls.

Brake: Maintenance free, solenoid actuated brake. No adjustment required for the life of the operator.

Bearings: Heavy-duty bearings are used at all rotation points.

Auxiliary Chain Hoist: Automatically engages and disengages as hand chain is operated. Cut off switch prevents motor operation when the chain is in use

MOTOR OPERATORS **WATERPROOF SERIES SG OPERATOR**

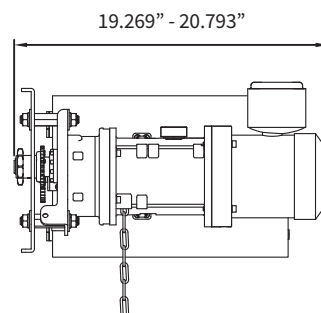
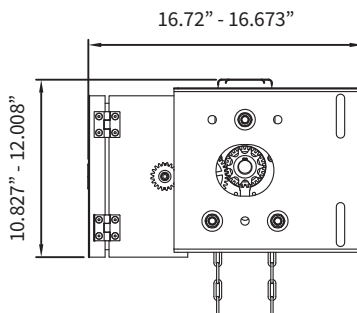
NEMA 4X

The NEMA 4X-type – SGHNX Series comes with a totally enclosed non-ventilated (TENV) motor, a NEMA 4 control box and a stainless steel finish which makes it corrosion resistant.

Model
Horsepower
Voltage
Phase
Frequency
Duty
Drive Chain
Auxiliary Hand Chain

SGHNX-100
1 HP
/ 460V /
3
60 Hz
Continuous
#60
Included

* Additional lead time may apply.
 † Additional lead time may apply to left hand configurations only.
 ** Additional lead time may apply for single phase configurations and left hand configurations only.
 Please contact factory for details.





LEED® RECYCLED CONTENT DETAIL

ITEM	TOTAL WEIGHT	POST CONSUMER	%	POST INDUSTRIAL	%	TOTAL RECYCLED	%
1	795 lbs	0 lbs	0.0%	76 lbs	9.6%	76 lbs	9.6%

MOTOR SPECIFICATIONS:

1 HP motor to include a totally enclosed fan cooled (TENV) motor removable without resetting of limit switches, reversing magnetic controller in NEMA 4X enclosure, spur gear box for drive reduction, electric brake and an auxiliary chain operator. Includes magnetic contactors, UL listed thermal overload protection, rotary limit switches, safety edge circuit and transformer with 24 volt control secondary, delay on reverse, and a door closing warning signal. Pre-wired to a terminal block using color coding of the wires to facilitate troubleshooting.

ELECTRICAL EQUIPMENT LIST:

- 1 - Three button push button station 'OPEN-CLOSE-STOP' in NEMA 1 enclosure, surface mounted.
- 1 - Three button push button station 'OPEN-CLOSE-STOP' in NEMA 4X enclosure, MMTC 3B4X, flush mounted.
- 1 - Electric sensing edge w/ SJO coil cord.

BOTTOM BAR LOCKING:

None

QUANTITY & MARK:

(1) 001

MATERIAL & FINISH:

Front slat - Aluminum, polyester powder coating, color Verify powder

Back slat - Aluminum, polyester powder coating, color Verify powder

Bottom Bar - Aluminum, polyester powder coating, color Verify powder

Guides - Stainless steel, pickled and annealed

Hood - Aluminum, polyester powder coating, color Verify powder

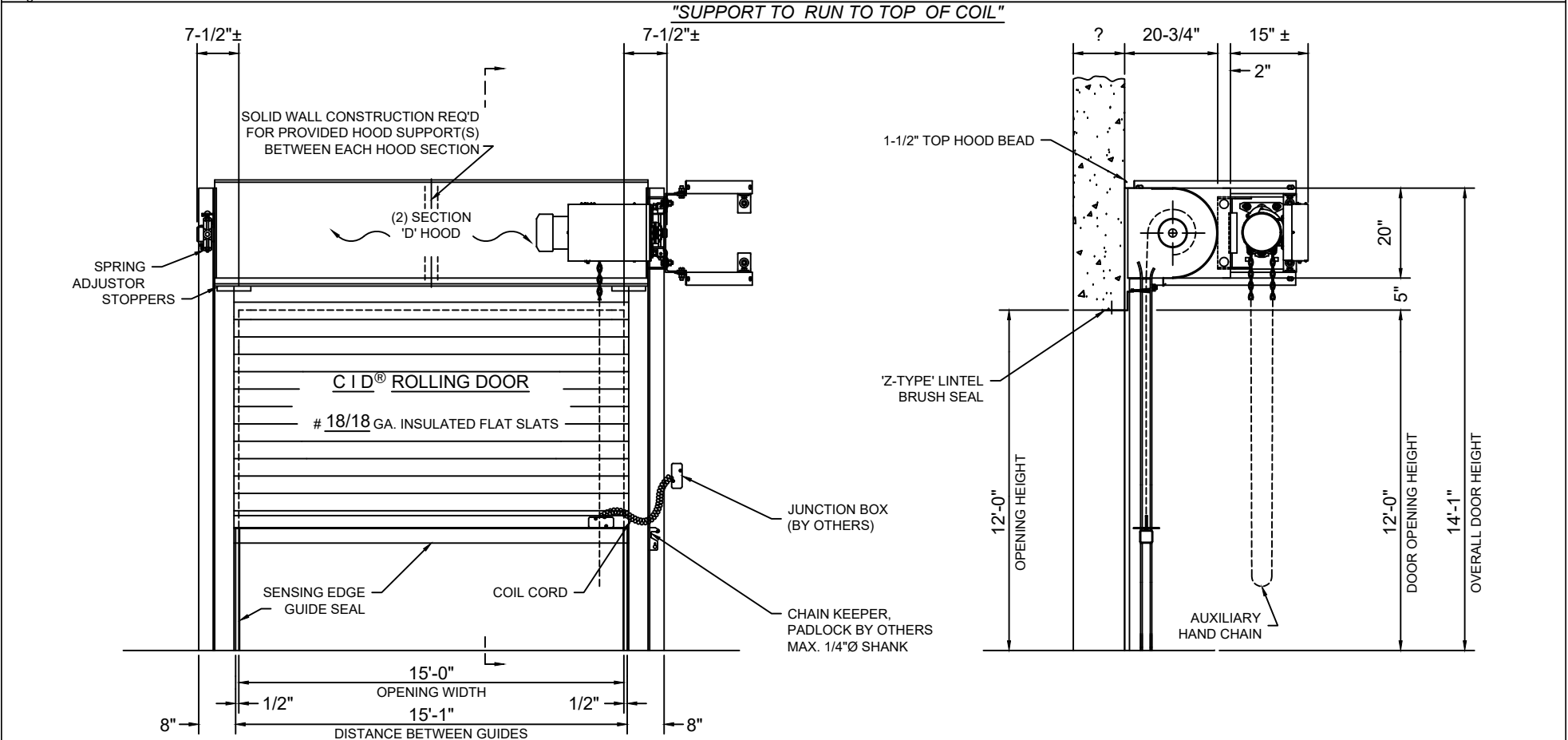
Plain Steel - Polyester powder coating, color Verify powder

CURRENT CHARACTERISTICS:

460 V 3 PH 60 HZ 1.4 FLA

Electrical current **must** be verified in writing before job is released for manufacture; current verified and found correct. Operator bracket bracing required, unless operator is wall mounted. Signed:

SELECT RAL COLOR FOR THE STANDARD RAL COLOR CHART



ELEVATION (COIL SIDE) AND SECTION VIEW

See drawing # E 01559937 001 B for guide detail.

07-06-2021	PRODUCT CODE:
MTR_STDR	MFV 6F 88AC

MODEL #:	JOB #:
ESD20	E 01559937 001 A

---	ORIGINAL DRAWING	07/27/21	CL54
#	REVISION	DATE	BY

Clopay

* "Dealer" refers to any purchaser, customer, or reseller of CornellCookson products, and not necessarily an authorized CornellCookson dealer.

SGH NEMA 4X MOTOR OPERATED ROLLING DOOR

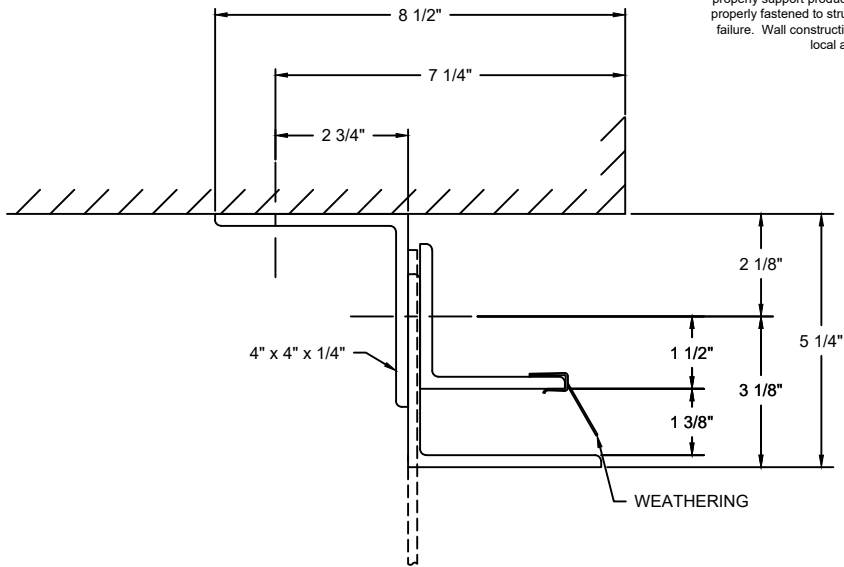
JOB:
TAUNTON SOLIDS HANDLING

DEALER:
HQI DOOR COMPANY

CONTRACTOR:
HART ENGINEERING

ARCHITECT:

NOTE: Wall construction detail shown is for illustrative purposes only, does not imply compliance with building requirements, and must meet architectural specifications to properly support product. Products designed with wind load requirements must be properly fastened to structural members as specified in order to avoid catastrophic failure. Wall construction and closure installation shall be in accordance with the local authority having jurisdiction requirements.



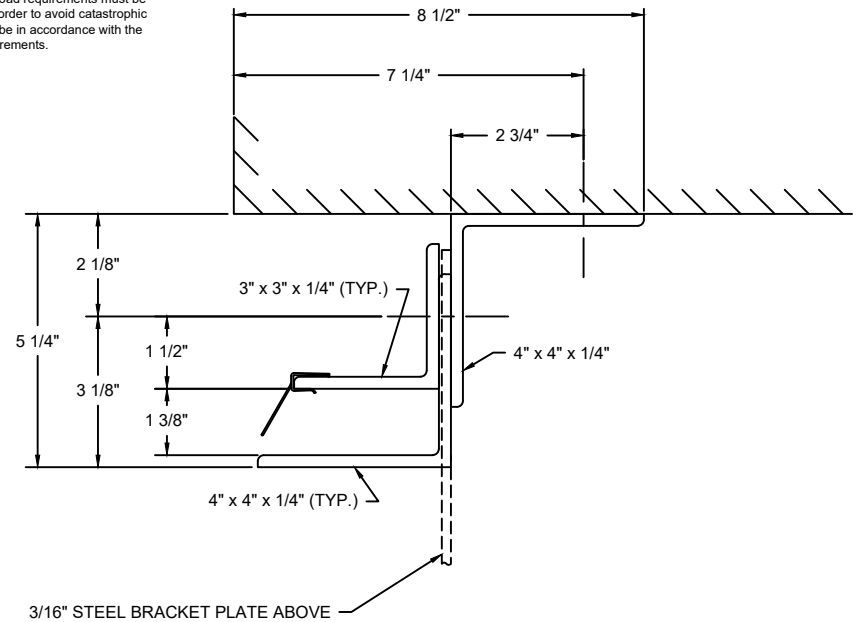
GA0450 - 5 1/4"

WALL FASTENERS:

- AT 36" ON CENTER
- Ø3/8" x 3-1/2" SIMPSON WEDGE-ALL,
- MIN. 3000 PSI CONCRETE REQ'D
- MIN. EMBEDMENT DEPTH - 2-5/8"

ASSEMBLY FASTENERS:

- AT 36" ON CENTER
- Ø3/8-16 x 1-1/2" HEX HEAD CAP SCREW, SST 18-8
- HEX HEAD NUT, SST 18-8
- HARDENED FLAT WASHERS, SST 18-8



GA0450 - 5 1/4"

WALL FASTENERS:

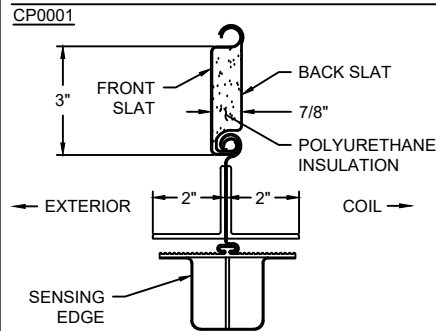
- AT 36" ON CENTER
- Ø3/8" x 3-1/2" SIMPSON WEDGE-ALL,
- MIN. 3000 PSI CONCRETE REQ'D
- MIN. EMBEDMENT DEPTH - 2-5/8"

ASSEMBLY FASTENERS:

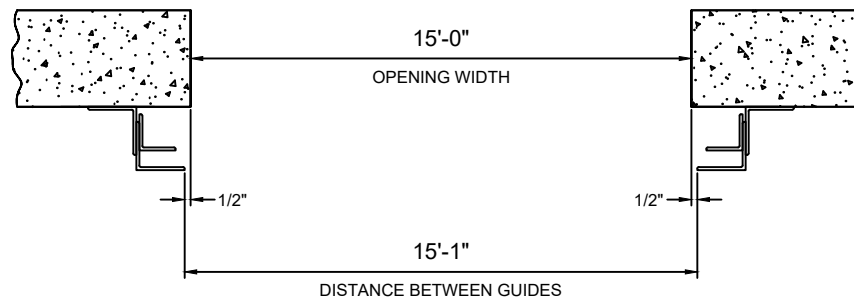
- AT 36" ON CENTER
- Ø3/8-16 x 1-1/2" HEX HEAD CAP SCREW, SST 18-8
- HEX HEAD NUT, SST 18-8
- HARDENED FLAT WASHERS, SST 18-8

SELECT RAL COLOR FOR THE STANDARD RAL COLOR CHART

BOTTOM BAR / SLAT DETAIL



**MK: 001
PLAN OF OPENING**

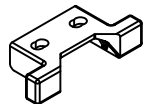


INSTALLERS NOTE:

MAINTAINING FACTORY SET GUIDE GAPS IS CRITICAL TO THE PROPER OPERATION OF THE DOOR AND IT'S ABILITY TO WITHSTAND THE DESIGNED WINDLOAD!

ENDLOCK DETAIL

CP1443 MOLDED NYLON ENDLOCK ON ALTERNATING SLATS WITH 2 x 1/4" RIVETS



CP1443

06-09-2016	PRODUCT CODE:
TD2_525SS	MFW 6F 88AC

MODEL #:	JOB #:
ESD20	E 01559937 001 B



INSULATED SERVICE DOOR GUIDE ASSEMBLY, SS, 5-1/4" PACKOFF

---	ORIGINAL DRAWING	07/27/21	CL54
#	REVISION	DATE	BY

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JOB:
TAUNTON SOLIDS HANDLING

DEALER*:	HQI DOOR COMPANY
CONTRACTOR:	HART ENGINEERING
ARCHITECT:	

TIGER Drylac®









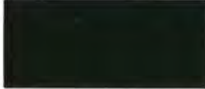


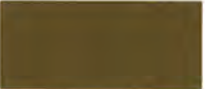


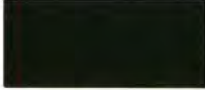












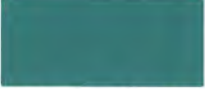
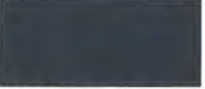




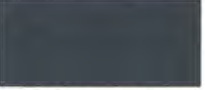




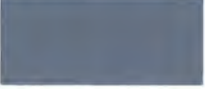
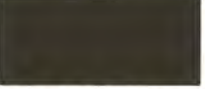




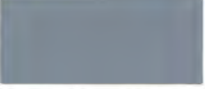
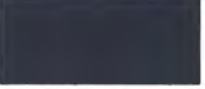



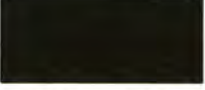
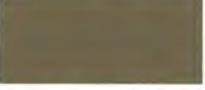



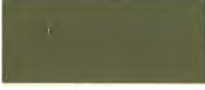

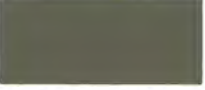
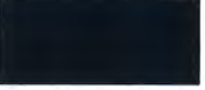


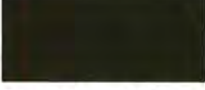








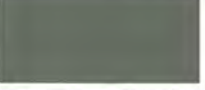
ral colors

exterior powder coatings



TIGER Drylac®
Powder Coatings

					
RAL 1000 49/15200 38/15000	RAL 1015 49/15320 38/15015	RAL 1033 49/22240	RAL 2012 49/24690	RAL 3014 49/31080	RAL 4004 49/31020 38/30024
					
RAL 1001 49/15190 38/15001	RAL 1016 49/22520 38/20016	RAL 1034 49/23910	RAL 3000 49/33120 38/30000	RAL 3015 49/33670	RAL 4005 49/42780
					
RAL 1002 49/22590 38/20002	RAL 1017 49/22510 38/20017	RAL 1037 49/20096	RAL 3001 49/31120 38/30001	RAL 3016 49/31980 38/30016	RAL 4006 49/32090
					
RAL 1003 49/22580	RAL 1018 49/21830 38/20018	RAL 2000 49/24570	RAL 3002 49/31110 38/30002	RAL 3017 49/31060	RAL 4007 49/32540 38/30025
					
RAL 1004 49/22570 38/20004	RAL 1019 49/13660 38/15019	RAL 2001 49/24560 38/23170	RAL 3003 49/31100 38/30003	RAL 3018 49/31050	RAL 4008 49/32280
					
RAL 1005 49/22560 38/20005	RAL 1020 49/22500 38/20020	RAL 2002 49/24550 38/25002	RAL 3004 49/33900 38/30004	RAL 3020 49/31040 38/30021	RAL 4009 49/34740
					
RAL 1006 49/22550 38/20006	RAL 1021 49/22280 38/20021	RAL 2003 49/24540	RAL 3005 49/31900 38/30005	RAL 3022 49/33700	RAL 4010 49/40490
					
RAL 1007 49/22540	RAL 1023 49/22490 38/20023	RAL 2004 49/24530	RAL 3007 49/31910 38/30007	RAL 3027 49/33660	RAL 5000 49/42200 38/40000
					
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RAL 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 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
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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
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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
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RAL 9010 49/11500
38/10004



RAL 7036 49/72950
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RAL 8001 49/66160
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RAL 8019 49/65490
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RAL 9011 49/80540
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RAL 8022 49/63080
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RAL 9016 49/11340
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RAL 7038 49/72470
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RAL 8003 49/66140
38/60003



RAL 8023 49/66070
38/60023



RAL 9017 49/80550
38/80017



RAL 7039 49/71020
38/70039



RAL 8004 49/66130
38/60004



RAL 8024 49/66060
38/60024



RAL 9018 49/72490
38/10018

exterior