Oldcastle BuildingEnvelope®

Date: March 22, 2017
Customer:
Project:
Location:
Glass Type:

MONOLITHIC GLASS PERFORMANCE DATA

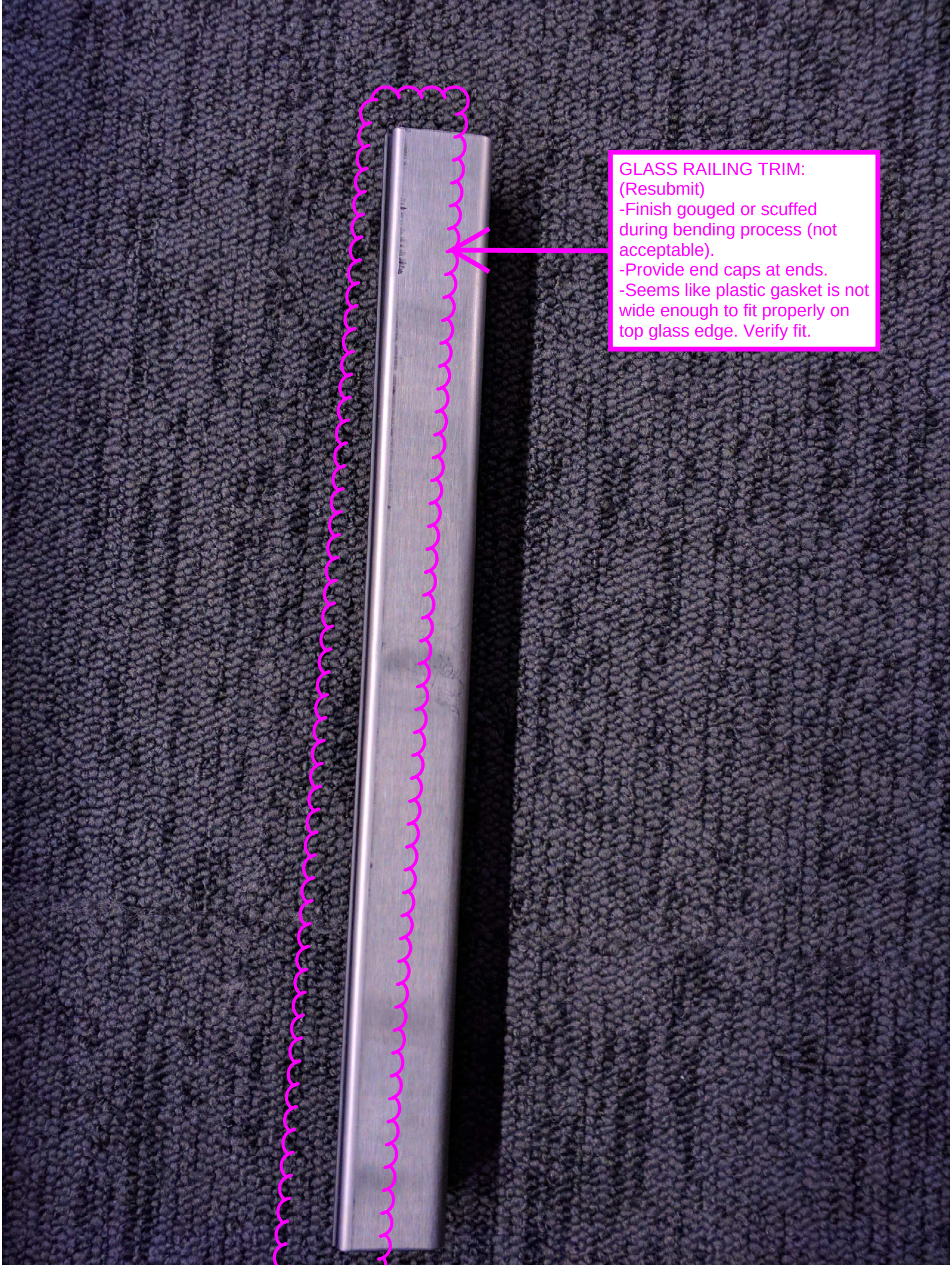
	ID #		Notes
Lite:	500001	3/8 clear, .060 SGP, 3/8 clear	b

Nominal Thickness: **0.795 Inches** f

Performance Properties	COG Results*	Units
Transmittance		
Visible Light	84	%
Solar Energy	59	%
Ultraviolet	<1	%
Reflectance		
Visible Light (Exterior)	8	%
Visible Light (Interior)	8	%
Solar Energy (Exterior)	6	%
Thermal		
Winter Nighttime:		
U-factor/U-Value	0.92	Btu/hr-ft^2-^{o}F
Summer Daytime:		
U-factor/U-Value	0.83	Btu/hr-ft^2-^{o}F
Shading Coefficient (SC)	0.81	-
Solar Heat Gain Coefficient (SHGC)	0.70	-
Relative Heat Gain	173	Btu/hr-ft^2
Light to Solar Gain	1.20	-

***Vertically Glazed Center Of Glass (COG) Results Calculated Using LBNL Window 7.4 Software.**

Notes: a) NFRC certified spectral data file
b) Data generated by Oldcastle BuildingEnvelope®
c) Average solar data
d) Simulated with LBNL Optics 6.0
e) Vendor supplied spectral data file
f) Please reference ASTM C1036 and C1172 for allowable glass thickness variations


GLASS RAILING TRIM:
(Resubmit)
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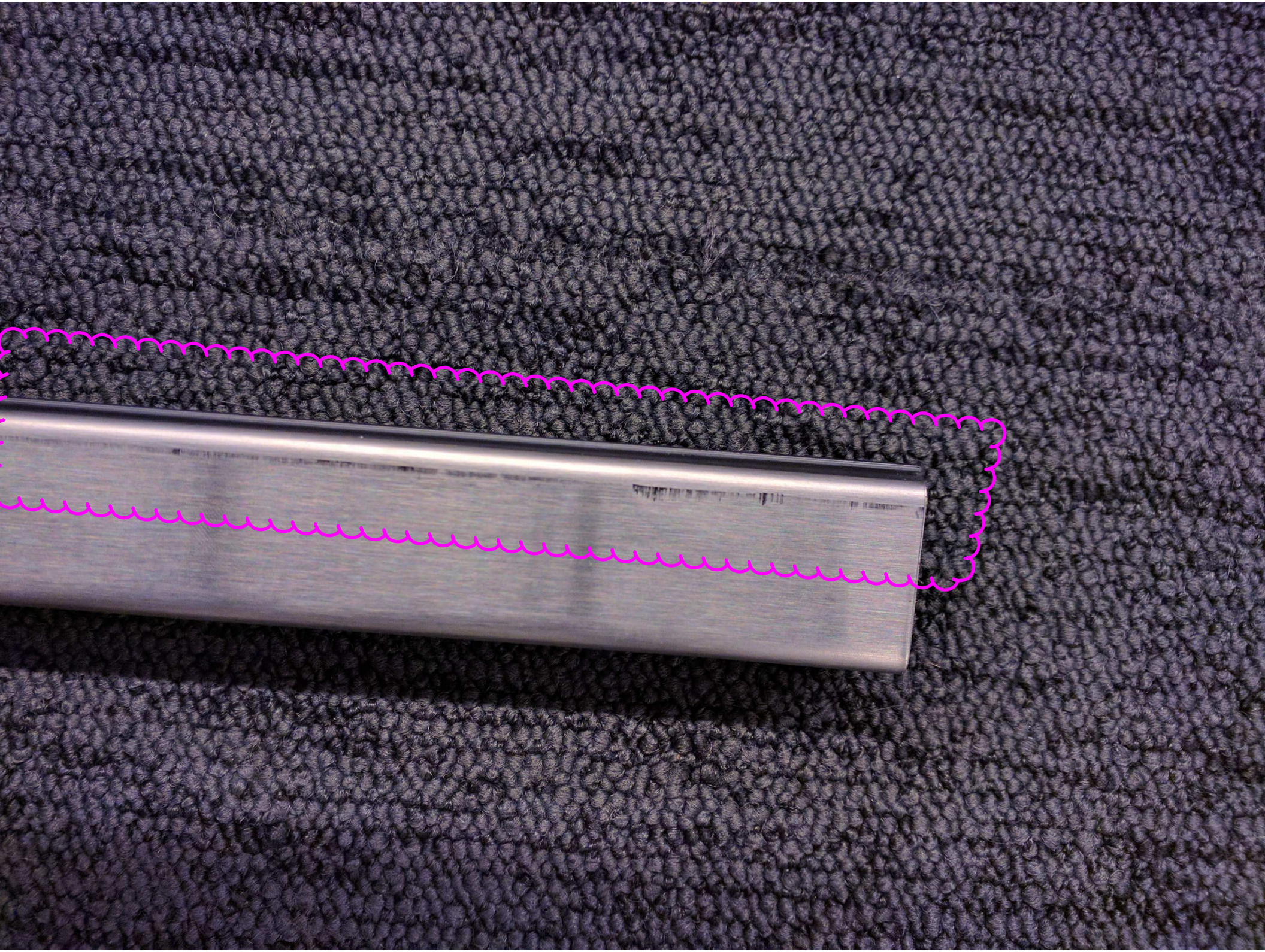
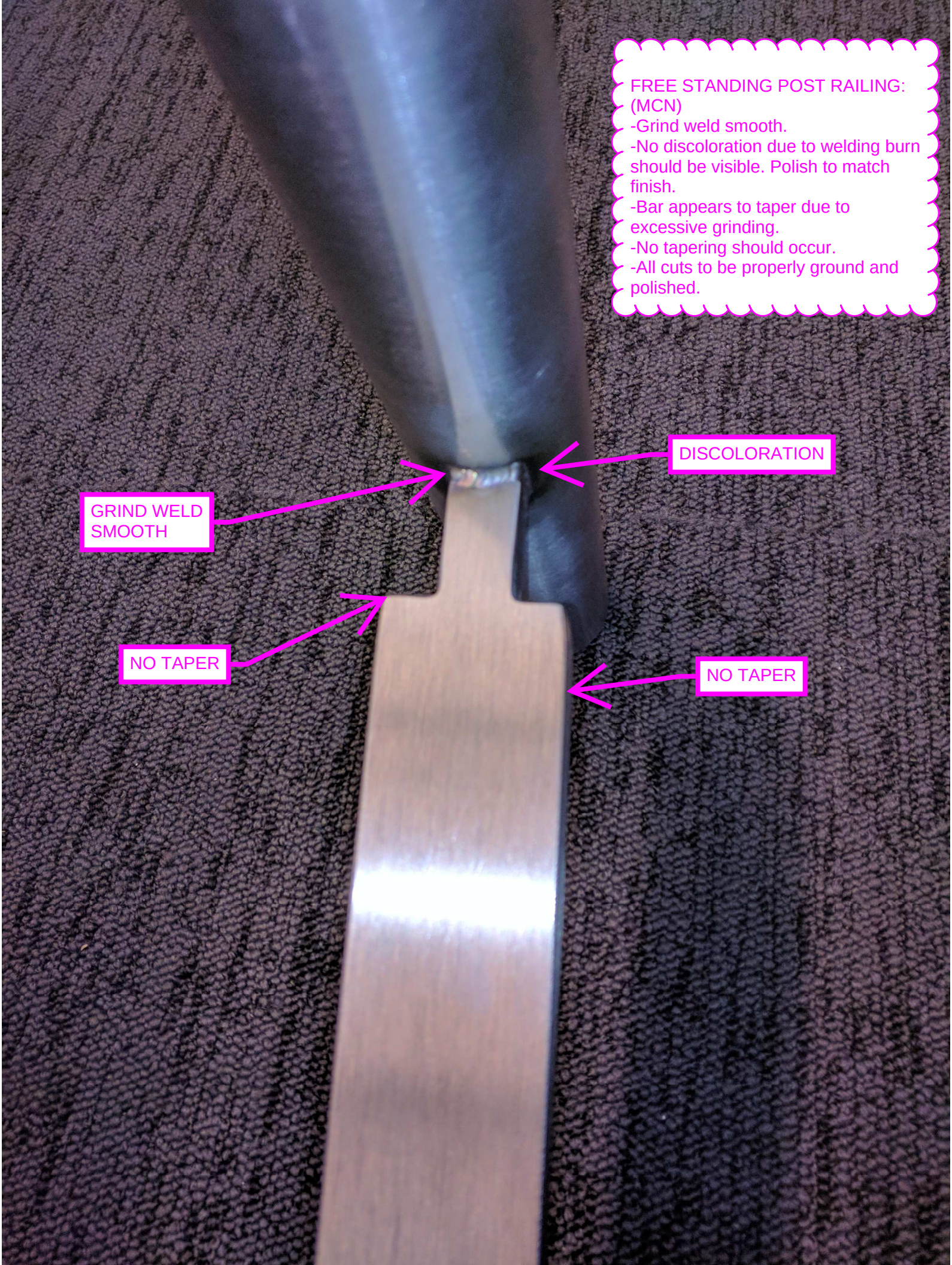


GLASS MOUNT BRACKET:
(MCN)
-Grind weld smooth.
-No discoloration due to
welding burn should be visible.
Polish to match finish.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-Grind weld smooth.
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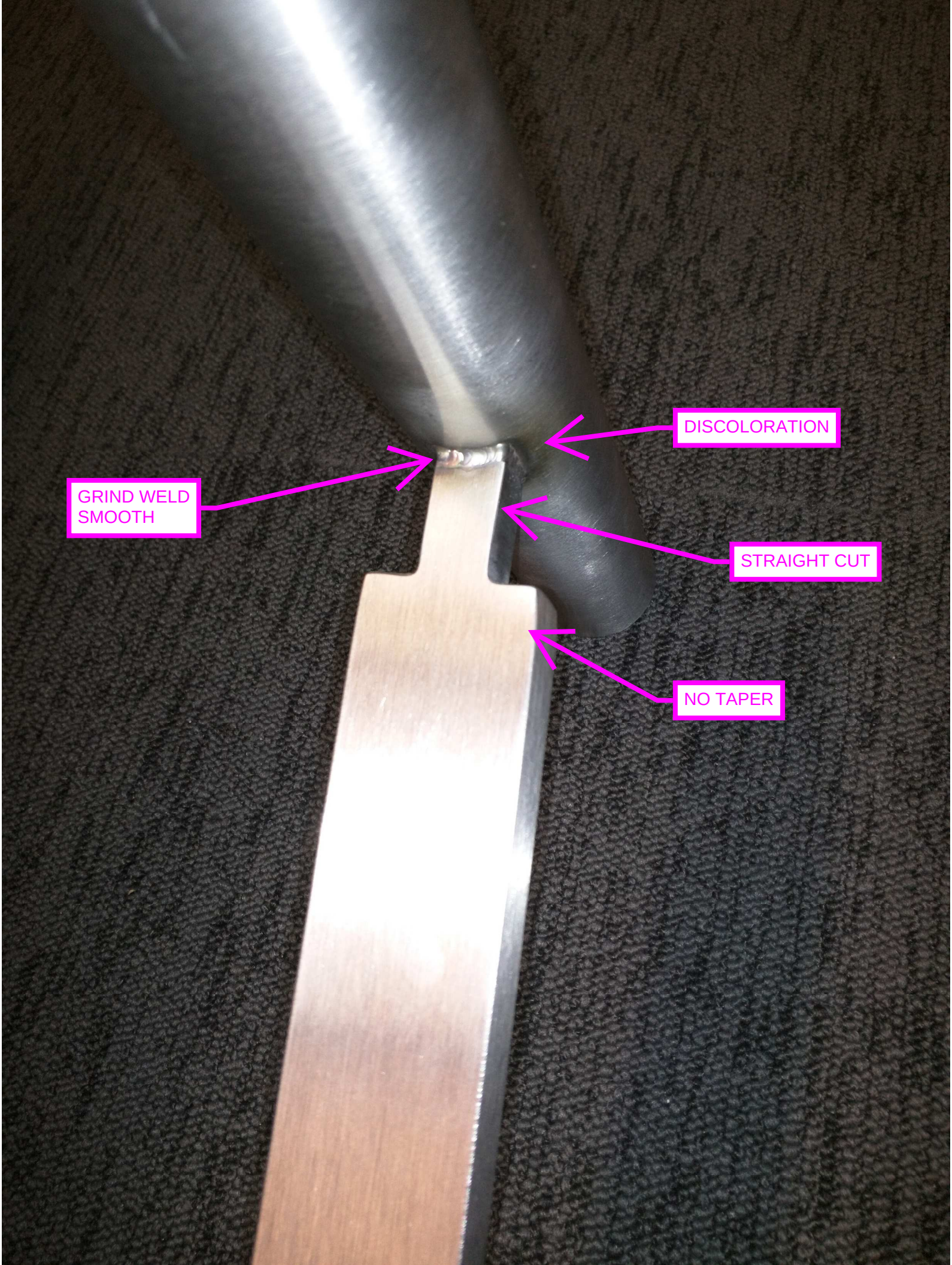
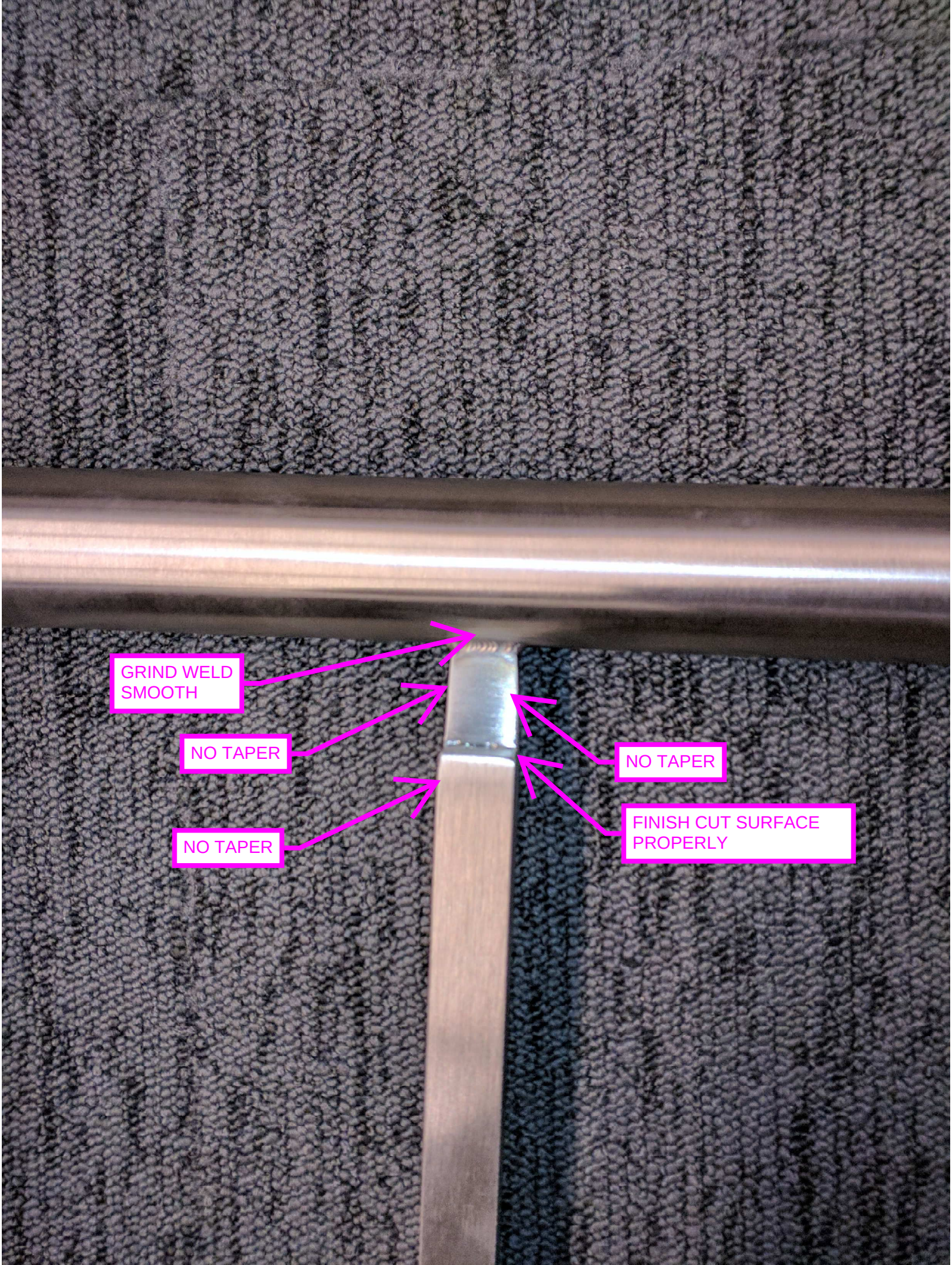
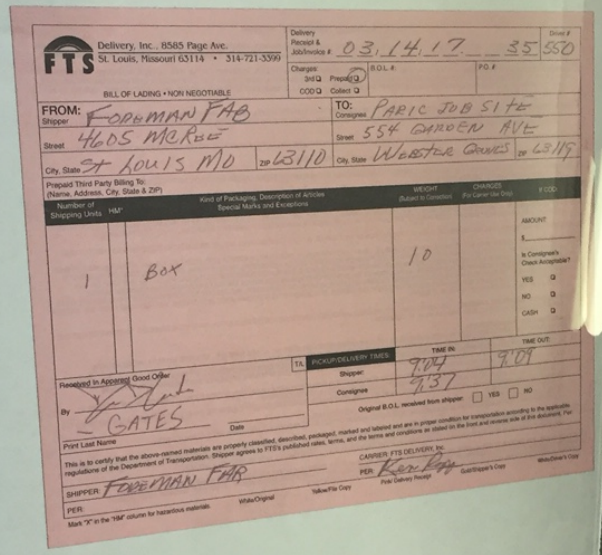
-Bar appears to taper due to excessive grinding.
-No tapering should occur.
-All cuts to be properly ground and polished.
DISCOLORATION
GRIND WELD SMOOTH
NO TAPER
NO TAPER


DISCOLORATION
GRIND WELD SMOOTH
STRAIGHT CUT
NO TAPER


GRIND WELD SMOOTH
NO TAPER
NO TAPER
NO TAPER
FINISH CUT SURFACE PROPERLY

A0702A



FTS Delivery, Inc., 8585 Page Ave.
St. Louis, Missouri 63114 • 314-721-3399

Delivery Receipt & Job/Invoice # 03,14,17 35 — Driver # 550

BILL OF LADING • NON NEGOTIABLE

Charges: 3rd ☐ Prepaid ☑ COD ☐ Collect ☐ — B.O.L. # — P.O. #

FROM: Shipper FOREMAN FAB
Street 4605 MCRee
City, State St LOUIS MO Zip 63110

TO: Consignee PARIC JOB SITE
Street 554 GARDEN AVE
City, State WEBSTER GROVES Zip 63119

Prepaid Third Party Billing To: (Name, Address, City, State & ZIP)

Number of Shipping Units	HM*	Kind of Packaging, Description of Articles, Special Marks and Exceptions	WEIGHT (Subject to Correction)	CHARGES (For Carrier Use Only)	If COD:
1		BOX	10		AMOUNT $ Is Consignee's Check Acceptable? YES ☐ NO ☐ CASH ☐

TX PICKUP/DELIVERY TIMES — Shipper: TIME IN 9:04, TIME OUT 9:09 — Consignee: 9:37

Received In Apparent Good Order — By GATES — Date — Print Last Name

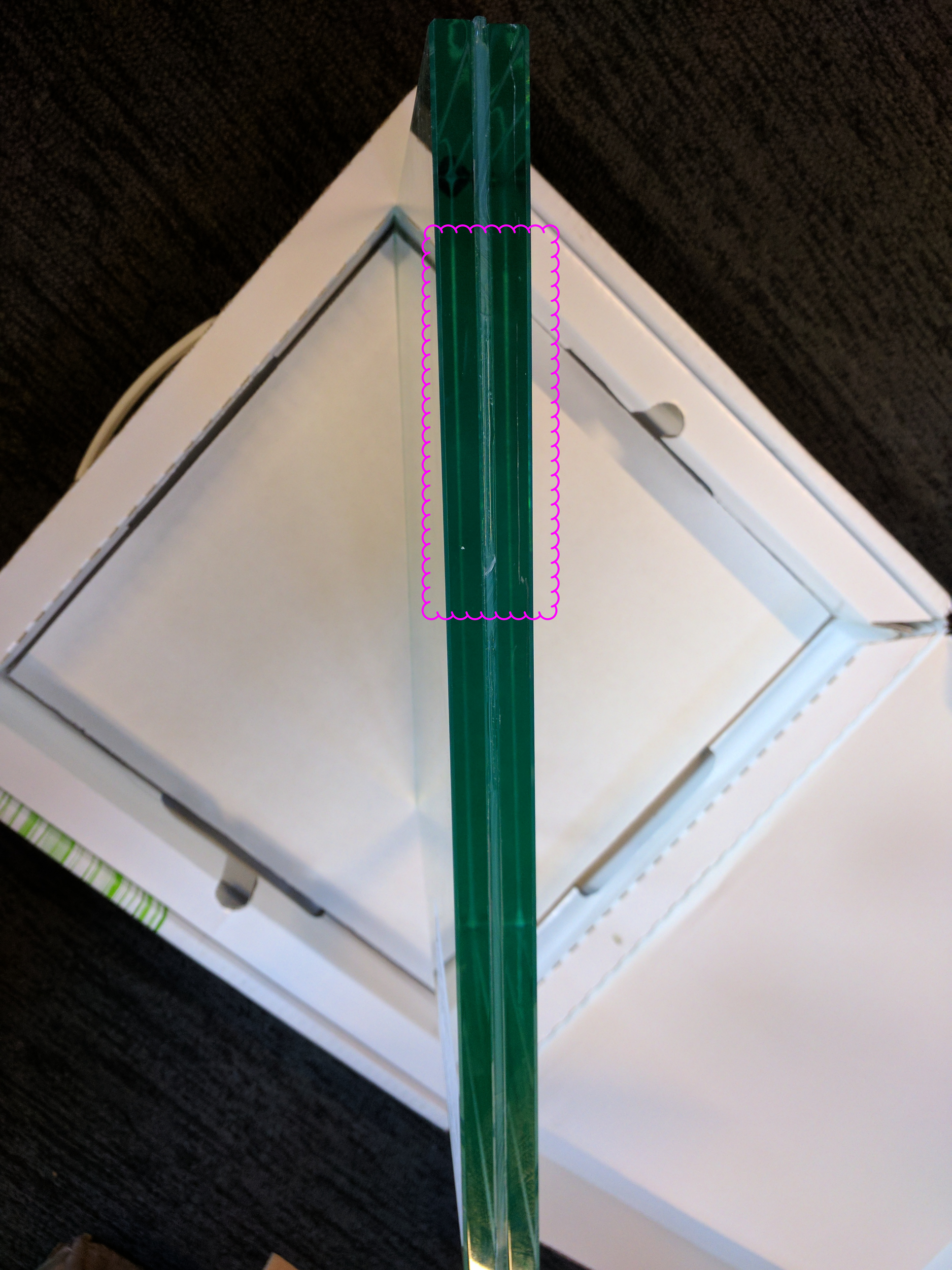
Original B.O.L. received from shipper ☐ YES ☐ NO

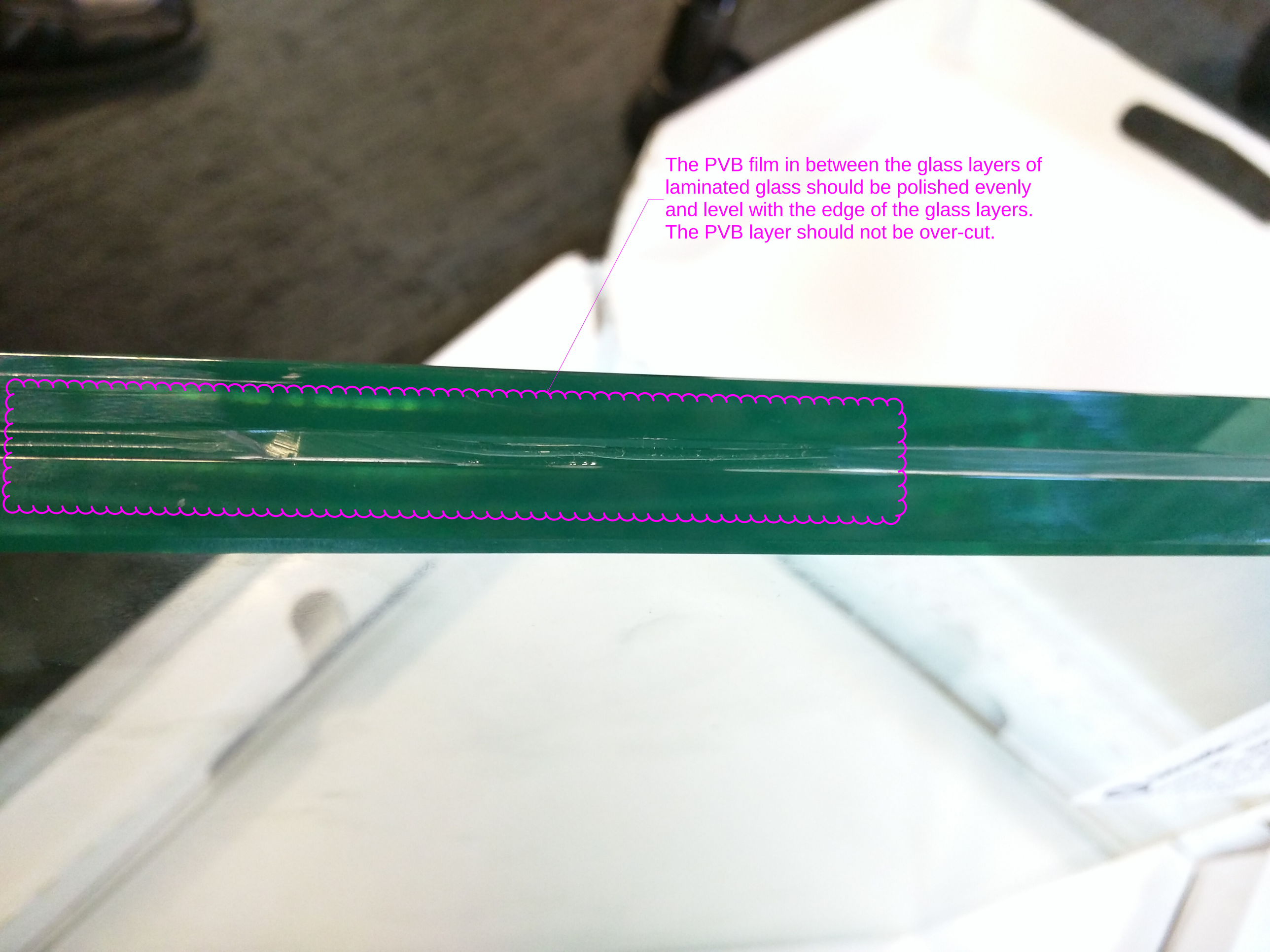
This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Shipper agrees to FTS's published rates, terms, and the terms and conditions as stated on the front and reverse side of this document. For

SHIPPER FOREMAN FAB — PER: — CARRIER FTS DELIVERY, Inc. PER Ken Day

Mark "X" in the "HM" column for hazardous materials. — White/Original — Yellow/File Copy — Pink/Delivery Receipt — Gold/Shipper's Copy — White/Driver's Copy

Oldcastle BuildingEnvelope®
Warrenton, MO (636) 456-3452
Customer: FOREMAN FABRICATORS ATTN TIM LOVELL
Project: SGP LAMI
Order # 104818
Makeup: 3/8" CL - 060SG--3/8" CL - **POLISH 1 LONG**
Oldcastle BuildingEnvelope makes no warranty by this sample.
Annealed samples are for color evaluation only




The PVB film in between the glass layers of laminated glass should be polished evenly and level with the edge of the glass layers. The PVB layer should not be over-cut.

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

057313-009
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

057313
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ◉ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ◉ Action
- ○ Information Only
- ○ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

3/27/17
DATE

To be completed by Reviewer

05 7313-009
CANNON DESIGN SUBMITTAL NUMBER

3/28/17
RECEIVED DATE

- ○ A. No Exceptions Taken
  No further review of submittal is required.
- ◉ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
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A/E COMMENTS

○ See attached sheet(s) for additional comments

Provide mitered ends at all glass rail corners.

The PVB film in between the glass layers of laminated glass should be polished evenly and level with the edge of the glass layers. The PVB layer should not be over-cut.

Kelvin Patel

Digitally signed by Kelvin Patel
DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design, OU=Architect, CN=Kelvin Patel
Date: 2017.04.03 17:33:36-05'00'

REVIEWED BY

4/3/17
DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0538

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 03/27/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Stair 1 Glass For Handrail Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		057313-009	1		03/27/2017	Stair 1 Glass For Handrail Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

057313-010
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

057313
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

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- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

1. Glass cap sample
2. Glass mount bracket for grab attached to pipe for grabrail
3. Free standing post attached to pipe for grabrail

Product data for glass mount brackets available at:
http://shop.wagnercompanies.com/handrail-bracket-9934

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

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By:
Devin D. Gates

Joe Voypick
REVIEWED BY

4/3/17
DATE

To be completed by Reviewer

05 7313-010
CANNON DESIGN SUBMITTAL NUMBER

4/11/17
RECEIVED DATE

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A/E COMMENTS ◯ See attached sheet(s) for additional comments

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-Finish gouged or scuffed during bending process (not acceptable).
-Provide end caps at ends.
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REVIEWED BY

4/13/17
DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0546

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 04/11/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Glass handrail Samples

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
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Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		057313-010	1		04/11/2017	Glass handrail Samples	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

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PROJECT NAME

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NUMBER

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CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

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CANNON DESIGN SUBMITTAL NO.

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ITEM / PRODUCT ID

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PARIC CORPORATION
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By:
Devin D. Gates

Joe Voypick
REVIEWED BY

4/3/17
DATE

To be completed by Reviewer

05 7313-010
CANNON DESIGN SUBMITTAL NUMBER

4/11/17
RECEIVED DATE

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