GENERAL NOTE TO SPECIFIER:

*This specification utilizes the Construction Specifications Institute’s (CSI) 3-Part formatting. The specification is a manufacturer-specific product specification to be used by design professionals as a guide specification. Editing notes are indicated in* ***bold red italics****. Delete editing notes in final specification.*

*This specification document specifies the TruLife® anti-reflective acrylic by Tru Vue. Revise Section text, Section number, and title below to suit project requirements.*

*Contact Tru Vue for questions or specific custom conditions.*

*Tru Vue Inc.*

*9400 W. 55th Street*

*McCook, IL 60525*

*Phone: 800.621.8339*

*Website: www.tru-vue.com*

NOTICE:

*The guide specification on the following pages is designed to assist architects and specification writers. It is provided as a guideline only. Tru Vue does not assume any responsibility for the suitability or applicability of this guide specification to any specific building project.*

**SECTION 10 14 00 – SIGNAGE**

**ANTI-REFLECTIVE ACRYLIC for SIGNAGE**

**GENERAL**

SUMMARY

Sections includes anti-reflective acrylic for:

Signage

Wayfinding

Brand Identity

Wall Décor

Photography

Related Sections:

Section 10 14 23 – Panel Signage

Section 10 14 33 – Illuminated Panel Signage

Section 10 14 63 – Electronic Message Signage

Section 09 88 00 – Special Function Glazing

DEFINITIONS

* + - * 1. Anti-reflective acrylic is achieved through the applications of an anti-reflective coating technology which virtually eliminates surface reflections and increases light transmission, offering viewers a clearer, more vivid and realistic display. TruLife® anti-reflective coatings are available on acrylic in sizes up to 72”x120”.
				2. References

Underwriter's laboratory (UL) 746c - Standard for Safety of Polymeric Materials -- Use in Electrical Equipment Evaluation

Underwriter’s laboratory (UL) 94 and 94v-0 – Standard of Flammability of Plastic Materials for Parts in Devices and Appliances.

ASTM D-1003: Light transmission

ASTM D-638: Tensile Strength Modulus of Elasticity

ASTM D-790: Flexural Strength Modulus of Elasticity

ASTM D-256: Impact Strength – Izod Milled Notch

ASTM 5420-04: Impact Strength – Gardner, falling weight

ASTM B117 & B-368-03 & B368-97: Corrosion Resistance (Salt Fog)

RoHS Compliance Testing

ISO 18916 & ISO 18902: Photography Activity Test

ASTM-D-1929: Flammability Self-Ignition Temp.

ASTM D-635: Horizontal Burning Test Avg. Burn Rate

ASTM D-2843: Smoke Density

UL 94 Rating

ASTM D-648: Deflection Temp.

ASTM D-1525: Vicat Softening Point

ASTM D696: Coefficient of Thermal Expansion

CPSC 16 CFR-1201- Safety Standard for Architectural Glazing Materials

SUBMITTALS

Manufacturer’s product data for specified products.

Samples: 8”x10” samples of specified product.

Product Certificates and Warranty: Signed by manufacturers certifying that products furnished comply with requirements.

Care and handling data sheet for acrylic sheets.

QUALITY ASSURANCE

Single‑source responsibility for acrylic: Obtain acrylic with specified anti-reflective coating from a single source for product specified.

DELIVERY, STORAGE, AND HANDLING

Deliver acrylic to printer. Store material in a safe place where breakage can be reduced to a minimum. Deliver finished graphics product(s) to site in protective packaging. .

Comply with manufacturer's Care and Handling Guidelinesto prevent damage to acrylic from handling, storing, condensation, temperature changes, direct exposure to sun, or other causes.

Store and handle materials in compliance with manufacturer's Care & Handling Guidelines .

WARRANTY

Warranties shall be submitted by acrylic manufacturer and/or supplier.

Three-year limited warranty on the anti-reflective coating applied to the acrylic in interior application: refer to the applicable Tru Vue Technical Data Sheet for product warranty

***Note: specific warranties may vary by acrylic manufacturer and/or supplier***

**PRODUCTS**

MANUFACTURERS

Anti-Reflective Coating: TruVue, 9400 W. 55th Street, McCook, IL 60525

Contact: Customer Service Department at 800.621.8339,
 customerservice@tru-vue.com

SUBSTRATE TYPES

Acrylic Sheet: clear, hard-coated, abrasion-resistant, UV filtering extruded anti-reflective acrylic

ACRYLIC PROPERTIES (with Anti-Reflective coating)

* + - * 1. Thickness: 3mm and 6mm
				2. Maximum size: 72” x 120” (3048mm x 1829mm)
				3. Abrasion Resistance:. The coating shows no damage after 600 dry cloth rubs at 2.5 lbs. – *Helps prevents scratching from cleaning and normal wear and tear.*
				4. Electrical Surface Resistivity or Anti-Static (ASTM D257): The surface resistivity is less than 1012 ohm/sq. at 50% relative humidity – *Helps repel dust and reduces cleaning.*
				5. Surface Cleaning: Surface cleans with glass cleaner. No special acrylic cleaner required.
				6. UV Protection: 99% UV blockage up to 380nm – *Helps protect image from fading.*
				7. Light Transmission and Clarity (ASTM D-1003): >98% (mounted/direct printed) – *Enhances image contrast and colors.*
				8. Light Reflection: <1.5% reflectivity (mounted/direct printed) – *Reduces glare and virtually eliminates distracting reflections.*

OPTICAL PERFORMANCE

* + - * 1. Coating and Visual Color Impression - *Light reflection is reduced to less than 1.5% at 90 degrees viewing angle when mounted/direct printed.*
				2. Some variation in the color and or intensity of the color of the reflection is considered acceptable as a normal and inherent characteristic of any anti-reflective product. The color and intensity of the reflection can vary within a sheet and from sheet to sheet. The amount of reflection however is significantly lower than the reflection of regular uncoated glass or acrylic and is considered normal and inherent characteristic of an anti-reflective product.

FABRICATION OF ACRYLIC

This product is intended to have the image face mounted or directly printed to the second surface.

Ensure manufacturers Care and Handling Guidelines are adhered to for cutting and polishing.

**EXECUTION**

EXAMINATION

Examine substrate(s) for compliance and confirm printing is on the indicated side of the acrylic. Do not proceed with installation until unsatisfactory conditions have been corrected.

Scheduling of installation by owner or its representative implies that substrate and conditions are prepared and ready for product installation per the recommendations of the installation specialist.

Proceeding with installation implies installer’s acceptance of substrate and conditions.

APPLICATION

Do not proceed with installation until all finishing work has been completed in and around the work area.

Comply with manufacturer’s Care and Handling Guidelines

CLEANING AND PROTECTION

Standard glass cleaner can be used on acrylic, no special acrylic cleaners are required.

Comply with manufacturer’s Care and Handling Guidelines for cleaning instructions.

**END OF SECTION 10 14 00**