

DUXTON WINDOWS & DOORS

Revit Family Type Naming Standard

Technical White Paper — Updated 2025

1. Purpose

This white paper defines the standardized naming convention for Revit Family Types used within Duxton Windows & Doors' BIM library. The standard ensures consistent identification of product configurations across projects, facilitates interoperability between consultants, and supports accurate scheduling, specifications, and model-based coordination.

Duxton's FiberWall™ door systems offer extensive customization; therefore, a structured naming method is essential to clarify each configuration while maintaining predictable, machine-friendly formatting.

2. Context & Philosophy

Duxton Windows & Doors manufactures high-performance fiberglass door and window systems engineered for extreme weather, durability, and architectural flexibility. Within Revit, these systems must be represented consistently to maintain accuracy through the design, tender, and construction phases.

A well-defined naming standard communicates the correct assembly, accessories, and size directly from the type name — eliminating ambiguity and supporting downstream processes such as takeoffs, QA/QC, and submittal review.

3. Core Naming Structure

Each Revit Family Type follows a modular structure:

General Format

[FrameVariant]_[Panel]_[ExtAccs]_[IntAccs]_[Grill]_[Size]

Example

STD_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

4. Component Definitions

4.1 Frame Variants

The frame variant defines the primary assembly geometry. Variants are created by combining the base frame with optional modifiers such as sidelites or transoms.

Description — Abbreviation

Standard 458 Out-Swing Frame — STD

All-Glass Sidelite — GLSL

Panel Sidelite — SLP

Venting Casement Sidelite — SLV

Standard Frame + Transom — STD-TRN

All-Glass Sidelite + Transom — GLSL-TRN

Panel Sidelite + Transom — SLP-TRN

Venting Casement Sidelite + Transom — SLV-TRN

Note: Modifiers (ex. -TRN) never stand alone. They always attach to a base frame.

4.2 Door Panels (DUX_01_PANEL)

Panel Type — Abbreviation

1-Lite — P1L

1-2 Lite — P12L

3-Lite — P3L

4-Lite — P4L

5-Lite — P5L

Solid Panel — PSLD

Panel code always follows the frame variant.

4.3 Exterior Accessories (DUX_02)

Description — Abbreviation

250 Panning — XPAN250

Narrow — XNAR

Narrow + 1" Expansion — XNAR1E

Blank (Default) — XBLK

4.4 Interior Accessories (DUX_03)

Description — Abbreviation

Drywall Return — IDWRT

Jamb Return — IJRT

Blank (Default) — IBLK

4.5 Grill Types (DUX_04)

Grills are blank by default unless explicitly selected.

Description — Abbreviation

Blank / Full Glass — GBLK

Colonial 2x4 — GCOL-2x4

Colonial 3x3 — GCOL-3x3

Horizontal 3-Lite — GHZ-3

Horizontal 4-Lite — GHZ-4

5. Size Formatting

All family sizes follow the standard architectural imperial format:

W'-I"xH'-I"

Standard example:

3'-0"x7'-0"

This format is intentionally compatible with Revit Type Catalogs and fits neatly into schedules and tags.

6. Putting It All Together — Full Examples

Using defaults:

Panel = PSLD

ExtAccs = XBLK

IntAccs = IBLK

Grill = GBLK

Size = 3'-0"x7'-0"

Complete Valid Type Names

STD_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

GLSL_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

SLP_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

SLV_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

STD-TRN_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

GLSL-TRN_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

SLP-TRN_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

SLV-TRN_PSLD_XBLK_IBLK_GBLK_3'-0"x7'-0"

7. Syntax Rules

- Use underscores (_) between major components.
- Use dashes (–) only inside frame modifiers (ex. GLSL-TRN).
- Use ALL CAPS for every code.
- No spaces permitted anywhere in the Type Name.
- Each configuration must contain exactly one component for each of the five fields.
- Grill defaults to GBLK unless specified.
- Panel always appears immediately after the frame variant.

8. Type Catalog Integration

Every Duxton Revit Family includes a .txt Type Catalog to support scalable loading.

The naming standard ensures:

- predictable parameter mapping,
- batch loading without conflicts,
- consistent type naming across all projects,
- future automation compatibility.

9. Benefits of Standardization

- Precise schedule alignment
- Faster QA/QC and submittal verification
- Improved consultant coordination

- Automated compatibility with model-based delivery workflows
- Reduced ambiguity for door frame/sidelite/transom configurations
- Consistency across all Duxton BIM deliverables

10. Compliance Requirements

All new Duxton Revit content must follow this naming standard.

Legacy families should be updated when revised or re-issued.

11. Conclusion

This standard ensures that every modeled Duxton door is unambiguous, predictable, and compatible with industry workflows. By using a complete and logically structured naming convention, Duxton continues to deliver clarity and precision in both its physical products and its digital BIM assets.