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**Stanley Access Technologies Revit® Content Usage Procedures**

By Integrated Content Solutions

Integrated Content Solutions has provided Stanley Access Technologies with procedures to assist in the use of the provided content. This document covers the procedures for loading individual door types including the following:

* ***Series 1.00 – Sliding Automatic Entrances, Dura-Glide Product Line***
* ***Series 2.00 – Impact Rated Sliding Automatic Entrances, Dura-Storm Product Line***
* ***Series 3.00 – ICU/CCU Entrances, Dura-Care Product Line***
* ***Series 4.00 – Automatic Door Operators and Swinging Automatic Entrances, Magic-Access, Magic-Force, and Sentrex Swing Door System.***
* ***Series 5.00 – Blast/Ballistic Rated Sliding Automatic Entrances, Dura-Shield Product Line.***

Product families are added to projects with and without the support of a “type catalog”. In general sliding door families take advantage of the power of type catalogues while operators are placed directly.

**Families Based on Type Catalogs - Sliding Entrances**

**Advantages of Type Catalogs**

The main advantage of using type catalogs in Revit® is the reduction in the amount of memory taken up by types that are unnecessarily loaded into a project. By minimizing the number of types in a project, we can keep the project running as fast as possible. Type catalogs allow the user to filter the parameter values to a shortened list, choose the type(s) that meet the needs of an individual project, and quickly load the type(s) into the project. In addition, type catalogs allow the user to preview certain parameters and their respective values before anything is ever loaded into a project. If none of the types in a particular family will meet the needs of a project, all the user needs to do is cancel the operation. This not only saves time not having to load and preview each type in a project, it allows the project to remain unaffected.

**Loading Door Types Through a Type Catalog**

1. If there is an existing project, at this time skip ahead to step 4. Select the appropriate Autodesk Revit® Application Icon. **Note**: All content was created in Revit® Architecture 2011.

2012.png

1. To create a new project select New>Project>Browse>**default.rte**
2. If there is an existing company template, browse to that template.



1. Select **OK** to begin your project editor session.
2. Navigate to the Insert tab on the ribbon and click the **Load Family** button.



1. Navigate to the location where the appropriate files are saved. **Note:** At this pointyou will only see the .rfa family, but the .rfa and the .txt file must be saved in the same location for the type catalog dialog box to generate.



1. Double click on the appropriate file and a type catalog box will appear. Once the dialog box appears, scroll down through the Type column to find the appropriate type(s). A **Standard** type has been included under the **Configuration** column to allow the user quick access to a typical door arrangement. The filter function can be used to quickly find the **Standard** type by clicking on the filter function arrow and selecting Standard. Multiple types can be selected at the same time by holding down the Ctrl key. While it is not recommended that all types be loaded, it can be done by selecting the first type, holding down the Shift key, and then selecting the last type.



The type name represents features of a particular model that are specific to that model alone. In other words, no two type names in a type catalog or family will be the same. Parameter values may be unique to a certain type, but they can also be shared by numerous types. The Parameter Name is generated in the type properties and is ubiquitous to the entire family. If applied, the filter function can be very useful in reducing the number of types the user has to sort through.

**Door Features by Series**

***Series 1.00 - Sliding Automatic Entrances, Dura-Glide Product Line***

* Frame Depth: The 2000/3000 models have optional frame depths of either 4 1/2" or 6"; the 4 1/2" is standard. The door is available with or without a transom. Frames that include a transom have been set up as their own type with glazing options from 1/4" - 1".
* Panel Glazing: Several glazing thickness options up to 1" thick are available and are dependent on the Panel Type. The 1/4" option is standard.
* Thresholds: Options include a Double Bevel, a Square Bevel Interior, and a Recessed Continuous.
* Activation and Safety Systems: The standard option includes a two motion, overhead presence, and two beam system. Additional options include two combined motion/presence and two beam system or a two video sensors (Stanvision) and two beams combination.
* Locking: There are types created for various locking options that include No Lock, 2-Point, 3-Point, Access Control w/ Flush Panic, Access Control w/ Surface Panic, and a Solenoid Carrier Lock with Standard Mechanical Lock.

***Series 2.00 - Impact Rated Sliding Automatic Entrances, Dura-Storm Product Line***

* Pressure Rating: Parameter values are based upon certifications from the State of Florida and Miami-Dade County.
* Panel Glazing: All Panel Types contain 9/16" glazing, the standard for impact rated systems.
* Thresholds: Options include a Double Bevel, a Square Bevel Interior, and a Recessed Continuous.
* Activation and Safety Systems: The standard option includes two motion sensors, an overhead presence sensor, and two beam sensors. Additional options include a two combined motion/presence and two beam system or a two video sensors (Stanvision) and two beams combination.
* Locking: The options for locking include the standard 5-Point and an available Solenoid Carrier Lock with a Standard Mechanical Lock.
* Size Limitations: The Package Width and Package Height parameters are directly correlated with the pressure rating.
* Steel Reinforcing: Steel reinforcing requirements are tied to pressure ratings.

***Series 3.00 - ICU/CCU Entrances, Dura-Care Product Line***

* Panel Glazing: There are three panel types created to represent the thicknesses of glazing available. The options are 1/4", 5/8", and 1", where 1/4" is the standard.
* Threshold: There are two options for the threshold type, a Recessed Continuous and a Recessed Under Sidelight. The threshold options do not apply for the "Trackless Products".
* Locking: There are four options for the locking type that include a no lock option, a 1-Point variation, a 2-Point style, and a Positive Latch variety.
* Smoke and Draft Protection: The door types are available with or without Smoke and Draft Protection.
* Swing Panel Dimension: The 7600 Series has three options for the swing panel width that include 36", 42", and 48".

***Series 5.00 - Blast/Ballistic Rated Sliding Automatic Entrances, Dura-Shield Product Line***

* Rating: There are options for both blast and ballistic rated doors.
* Frame Depth: The 5000 models have a standard frame depth of 6". The door is available with or without a transom. Frames that include a transom have been set up as their own type with glazing options from 1/4" - 1".
* Glazing: Door types have been created with either 1/4", 5/8", or 1" glazing. The blast and ballistic rated panels have 1 1/4" glazing.
* Thresholds: There are established types for both Standard Surface and Recessed thresholds.
* Activation and Safety Systems: There are three options for the activation and safety system. The standard system is a combination of two motion sensors, an overhead presence sensor, and two beam sensors. The 5000 series is also available with two combined motion/presence sensors and two beam sensors or a two video sensor (Stanvision) and two beam sensor arrangement.
* Panel Control: There are various options for the panel control which include a limiting arm, a wind damper, and a panel closer. The type of panel control is directly influenced by the blast or ballistic rating.
* Panel Configuration: The flexibility in how the panel types can be configured is limited by the blast or ballistic rating.
* Blast Rated: The Blast Rated parameter is a yes/no parameter that automatically configures family type options to meet certain rating criteria.
* Breakaway: The ballistic types have a breakaway panel feature, while this option is not available on the blast rated doors.

**Automatic Door Operators and Swinging Automatic Entrances**

The Stanley Access Technologies automatic door operator families represent the full line of Stanley's swing door operator options. Care was taken to provide a general representation of the overall geometry without over-modeling the units. Each of the standalone operator families have preconfigured types that define the position of the operator and the type of door frame. There is a Visible "Out" and a Visible "In" type for each frame type. With the exception of the double-egress families, there is also an option for a concealed operator. Note that the concealed operator is only available in conjunction with an aluminum frame. In addition to the actual operator, a transparent geometry has been included on ”full energy” families to represent required safety options under ANSI/BHMA A156.10 Standard for Power Operated Pedestrian Doors. Door mounted safety sensors are represented by the magenta colored 3D geometry and are representative of the Stanley Sentrex safety system. This feature is available on all of Stanley's “full energy” operators. This feature can be turned on and off with the Safety Side Swing Show parameter. Within the family activation can be overhead sensor type for “full energy” applications, or “knowing act” for all applications.

The operator families were constructed using a door template, so a wall must be present in a project before an operator can be placed. The family comes with a "Ghost" door frame and panel. This feature was included to ensure that the operator is placed in the correct location. Unique families are established for “Single”, “Double”, and “Double Egress” door configurations.

**Automatic Door Operator Family Summary**

* ***4.01 – 4.02 Magic-Access Operator, Low Energy, Single and Double Door***
* ***Visible "In" Aluminum Frame***
* ***Visible "Out" Aluminum Frame***
* ***Visible "In" Hollow Metal Frame***
* ***Visible "Out" Hollow Metal Frame***
* ***\*Concealed Aluminum Frame***
* ***4.03 – 4.04 Magic-Force Operator, Low Energy, Single and Double Door***
* ***Visible "In" Aluminum Frame***
* ***Visible "Out" Aluminum Frame***
* ***Visible "In" Hollow Metal Frame***
* ***Visible "Out" Hollow Metal Frame***
* ***\*Concealed Aluminum Frame***
* ***4.05 – 4.06 Magic-Force Operator, Full Energy, Single and Double Door***
* ***Visible "In" Aluminum Frame***
* ***Visible "Out" Aluminum Frame***
* ***Visible "In" Hollow Metal Frame***
* ***Visible "Out" Hollow Metal Frame***
* ***\*Concealed Aluminum Frame***
* ***4.07 – Magic-Force Swinging Automatic Entrance, Full Energy, w/ Aluminum Door and Frame***

***\*Concealed option is not available for hollow metal frames***

Please note; the complete swinging entrance (4.07) has features built into it that set it apart from the other operators. Including the following:

* Overhead Activation Sensor: Activation Sensor is represented by a transparent green material in the Revit family. The geometry will automatically turn off if the activation selection changes to a “knowing act” option such as “Activation Int. Push Plate”.
* Configurable Door Panel: As this family represents an automatic operator and a swinging door being provided in a single package, the door panel is configurable. Door panel is standard aluminum storefront type with configurable stile, bottom rails, and muntins.



**Loading Door Operator**

1. Navigate to the Insert tab on the ribbon and click the **Load Family** button.



1. Navigate to the location where the appropriate files are saved. Select the appropriate family for the project and click the **Open** button.



1. To place the family in the project, navigate to the home tab and click on the **Door** button. Use the right slider to scroll down the list of families until the appropriate one is visible and then select the correct type.



1. To place the operator hover over the desired wall and left click the mouse. There are several tools built into Revit® that facilitate fast, yet accurate placement of families. The first of these are temporary dimension strings. These will appear as blue dimension strings and can be manually adjusted to precisely place the family at the desired location. The location where the temporary dimensions measure from can be set inside the **Additional Settings** tab under **Temporary Dimensions.** The second placement tool is a pair of flip controls that allow the user to mirror the family across both the left/right and front/back axis.



1. If desired, the actual project door frame and/or panel can now be applied over the "Ghost” door.
2. To remove the "Ghost" door from a project schedule add the "Appear In Schedule" field to the schedule and then use the filter tool to hide the parameter. Set the control to 'equals' and switch the value to 'yes'. This will remove the 'Supplied by Others' types from the project door schedule.

**For Additional Support Please Contact-**

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