

EZSLAMX

Training Program



CHAPTER 8

Door Profile



STS108, Slide 1

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1

Door Profile

- A. Introduction
- B. Profile Management
- C. Geometry
- D. Results
- E. Required Runs
- F. Nominal Profile
- G. Specials
- H. Import from Profile
- I. Review



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2

A. Introduction



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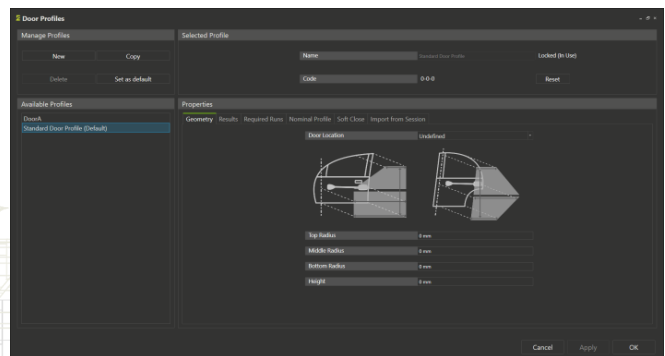
3

A. Introduction

1. Door Profiles

Custom Profiles

The user can create a door profile of relevant parameters, test minimums and precision thresholds that can be attributed to a specific door type. This profile can be recalled when launching a new session.



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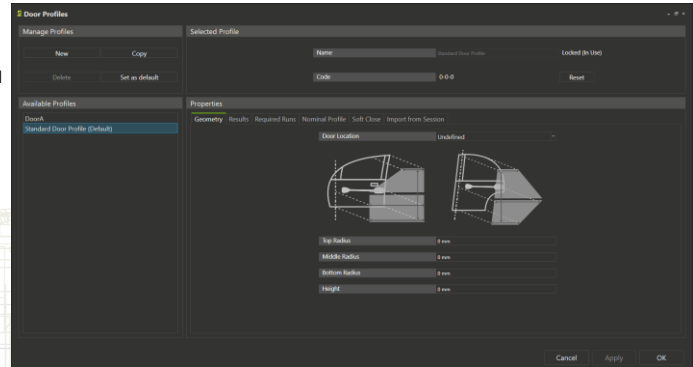
4

A. Introduction

2. Parameters

Parameters

Each door profile allows for custom geometry and other characteristics, required runs per session, correlated nominal profile, and soft close settings. This information can also be imported from a master session.



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5

B. Create Door Profile

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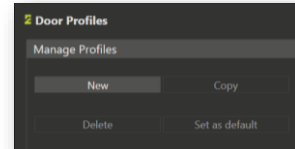
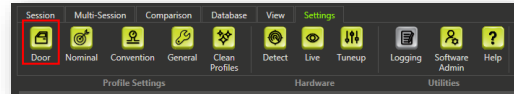
6

B. Profile Management

1. Create New Profile

Create New Profile

To create a new profile, Select the Settings tab from the Main Menu, and click on Door. In the Door Profiles window, click on New in the top left to create.



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7

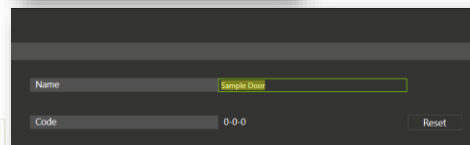
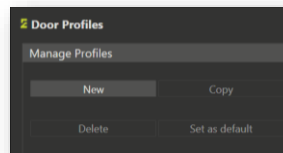
B. Profile Management

2. Naming

Naming

The new door will be automatically selected and given the default name "New Door."

To rename the profile, edit the Name field in the Selected Profile section. Click Apply in the lower left to save the changes.



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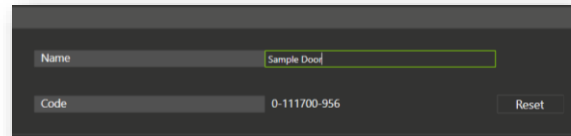
8

B. Profile Management

2. Profile Code

Code

The profile code is generated by changing the profile parameters. To return the parameters to default, hit Reset next to the code.



Name	Sample Door
Code	0-111700-956

Reset

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9

C. Geometry

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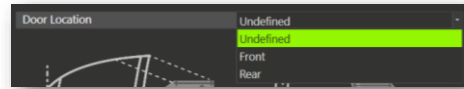
10

C. Geometry

1. Location and Geometry

DOOR LOCATION

Select front or rear from the drop-down menu to change the location of the door.



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11

C. Geometry

2. Values

Top Radius

Generally measured as the edge of the B-pillar to where the roof and windshield meet.

Middle Radius

Distance from hinge to hem edge of door.

Latch Radius

Distance from hinge axis to the latch.

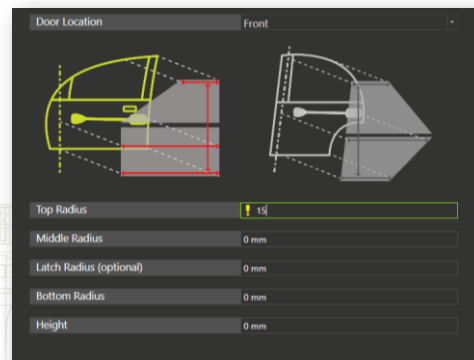
Bottom Radius

Distance from hinge to the edge near the rocker.

Height

Total height of the door.

Note: A yellow exclamation point will show if the value is out of the expected range. It can, however, be ignored and accepted as is.



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12

D. Results



13

D. Results

1. Values

Open Angle

The angle between the door in fully closed and fully open position.

Inertia

Rotational inertia around the hinges (without EZSlam).

Weight

Actual weight of the door.

Hinge Tip

Tilt Angle of the door:

around X-axis (in + / out -)

around Y-axis (front + / rear -)

Latch Point

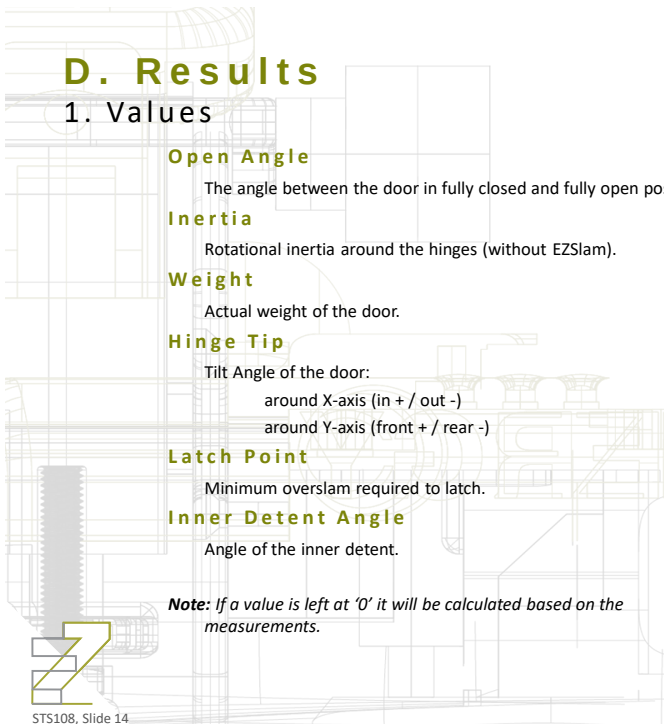
Minimum overslam required to latch.

Inner Detent Angle

Angle of the inner detent.

Note: If a value is left at '0' it will be calculated based on the measurements.

Nominal Profile	Specials	Import from Session
Open Angle	0.00 °	
Inertia	0.00 kg m²	
Weight	0.00 Lbs	
Hinge Tip X	0.00 °	
Hinge Tip Y	0.00 °	
Latch Point	0.00 mm	
Inner Detent Angle	0.00 °	



14

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E. Required Runs



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15

E. Required Runs

1. Session Requirements

Required Runs

Use these fields to adjust the required runs (Slam, Push, Sweep, Wiggle, Plop) for a completed session.

Note that the minimum required of a certain type is a function of the number of result values that have been entered in the results tab.

For example, if the inertia and radius is entered in the profile, the wiggle test is no longer required.

Nominal Profile	Specials	Import from Session
Number of not closed Runs(minimum 1)	1	
Number of Slams Runs(minimum 3)	3	
Number of Push Runs(minimum 2)	2	
Number of Sweep Runs(minimum 2)	2	
Number of Wiggle Runs(minimum 2)	2	
Number of Plop Runs(minimum 0)	0	

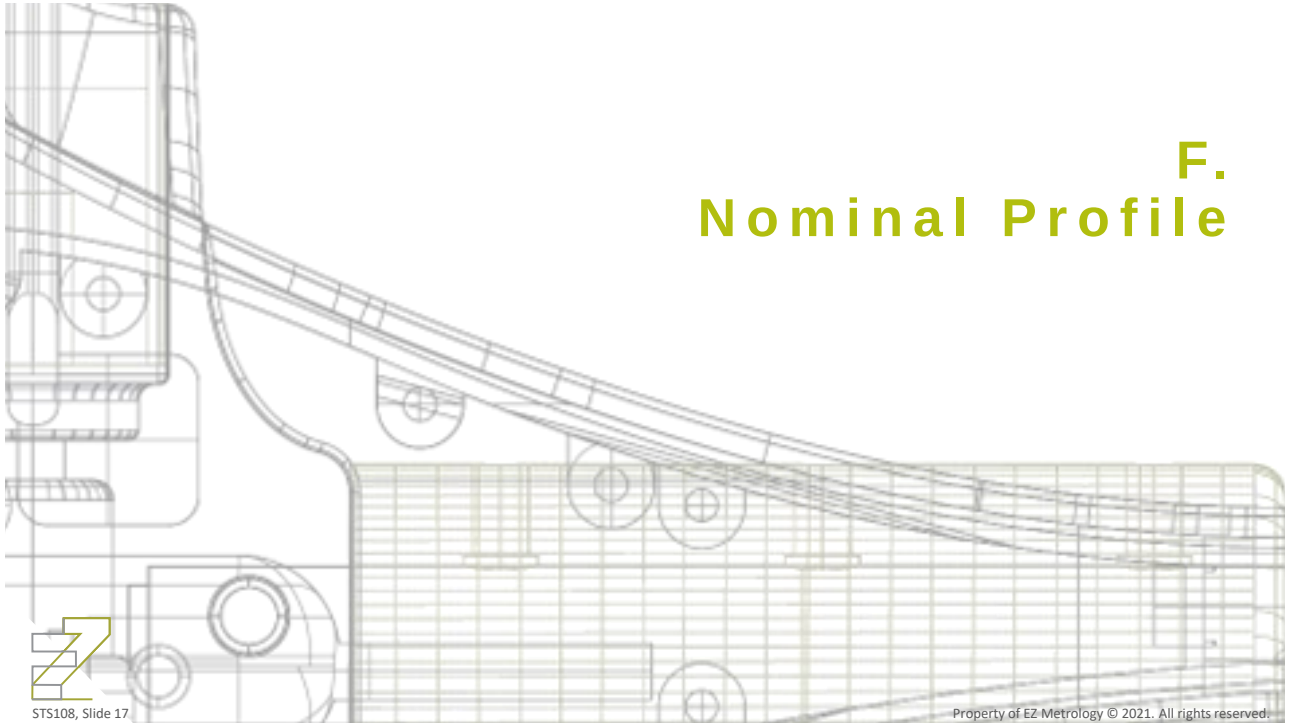


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16

F. Nominal Profile



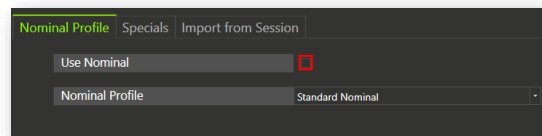
17

F. Nominal Profile

1. Use Profile

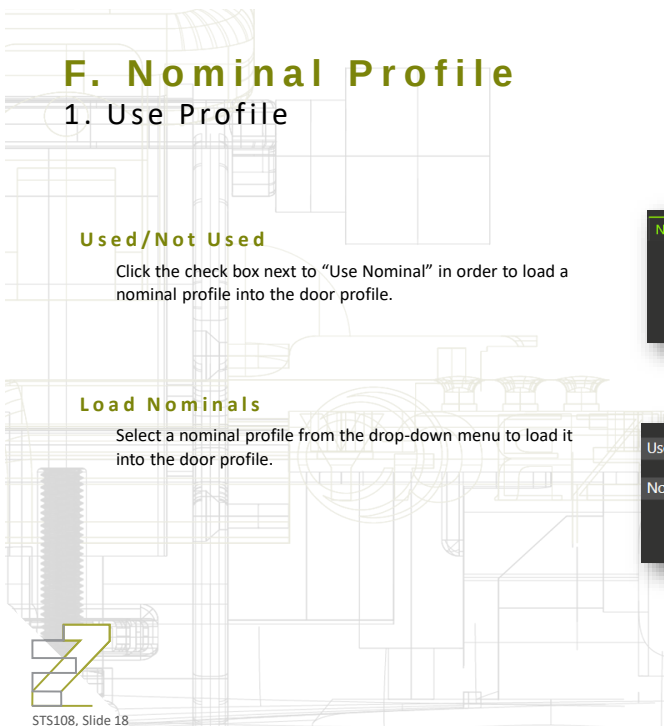
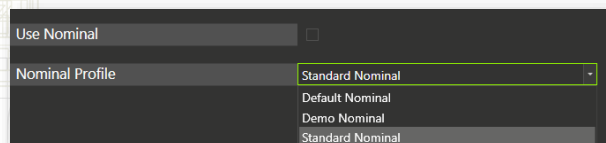
Used/Not Used

Click the check box next to "Use Nominal" in order to load a nominal profile into the door profile.



Load Nominals

Select a nominal profile from the drop-down menu to load it into the door profile.



18

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G. Special



19

G. Special

1. Soft Close

Definition

Doors that use a soft close/power latching mechanism only require that the door come within reach of the latching mechanism.

Check the box next to "Soft Close" if the door profile describes a door with this feature.

Initial Profile	Specials	Import from Session
Use Soft Close ☐		
Rear Hinge Design ☐		



20

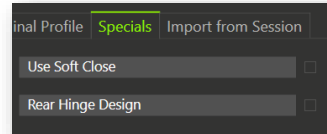
G. Special

2. Rear Hinge Design

Definition

The door has its hinge located on the rear as opposed to the front. Otherwise known as rear-access doors, or coach doors.

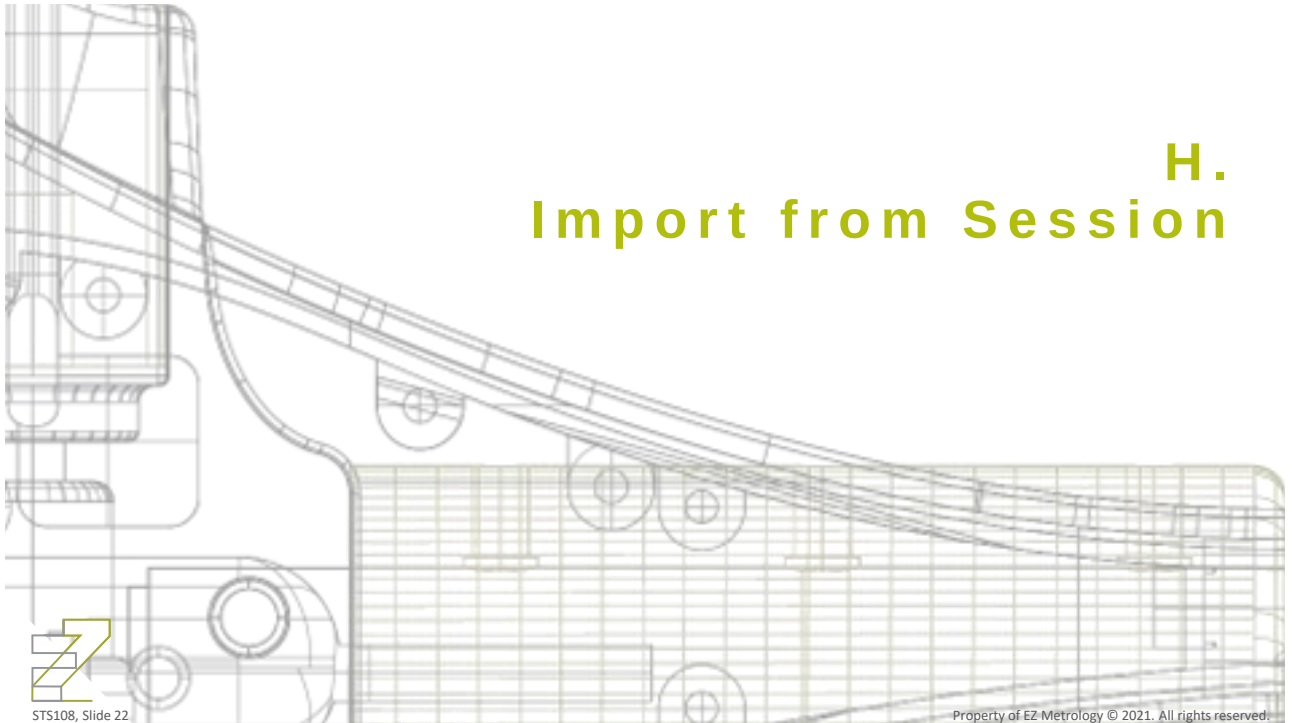
Check this box if the profile features this design element.



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21

H. Import from Session



22

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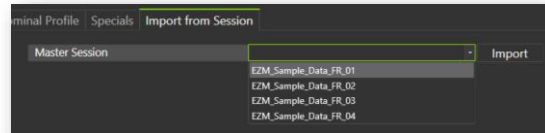
H. Import from Session

1. Loading a Profile

Import

The metrics from a previously completed session can be imported in order to build a profile.

Select the session to be loaded from the drop-down menu and click "Import."



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23

I. Review

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24

I. Review

1. Chapter 8

Topics addressed during this chapter:

Door Profile

- Create a new comparison.
- Populate profile by hand or via import.
- Understand when fields are given a value or left at 0.

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