

EZSLAMX

Training Program



CHAPTER 5

Convention Profile



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1

Convention Profile

- A. Introduction
- B. Profile Management
- C. Convention Types & Values
- D. Review



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2

A. Introduction



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3

A. Introduction

1. Nomenclature

Conventions

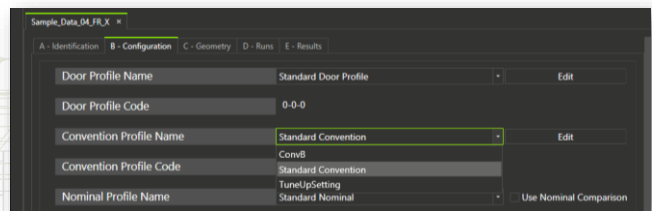
A set of rules and guidelines that are applied when processing data.

Selecting Profiles

Convention profiles are selected from the drop-down menu of the B – Configurations tab in the session window. If no profile is selected, the default profile is applied.

Editing Profiles

To change conventions in a profile, click edit next to the profile menu in B – Configurations or navigate to Main Menu → Settings → Convention

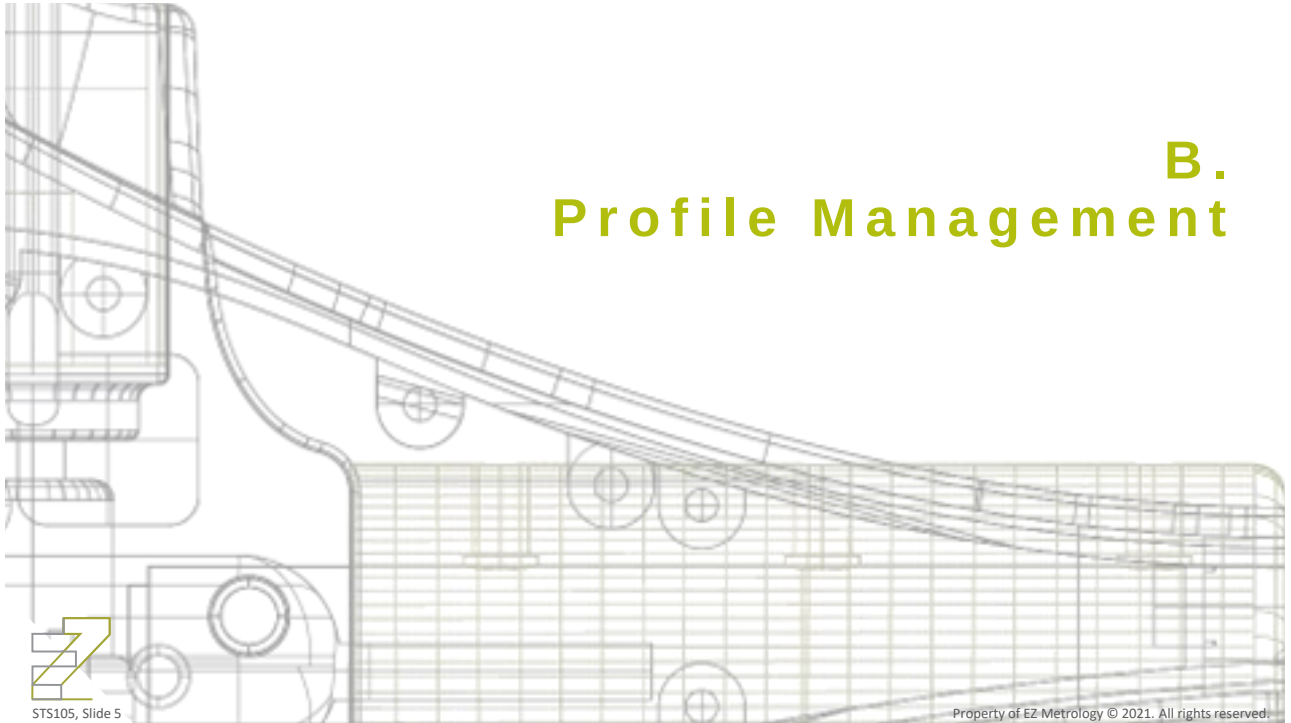


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B. Profile Management



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B. Profile Management

1. Creating a New Profile

New Profile

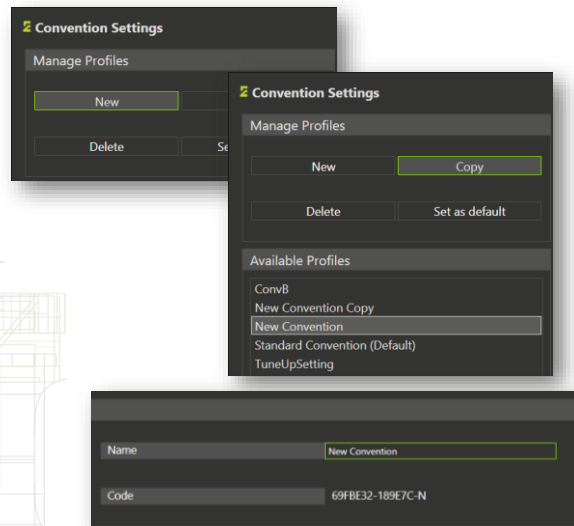
In the convention settings window, select "New" in the top left to create a new profile with default settings.

Copy Profile

To create a new profile with the same settings as another profile, select the profile to be copied and then select "Copy" from the top left.

Naming

Edit the field in the top right section to change the name of the created/selected convention. Click "Apply" in the bottom right to save the changes.



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B. Profile Management

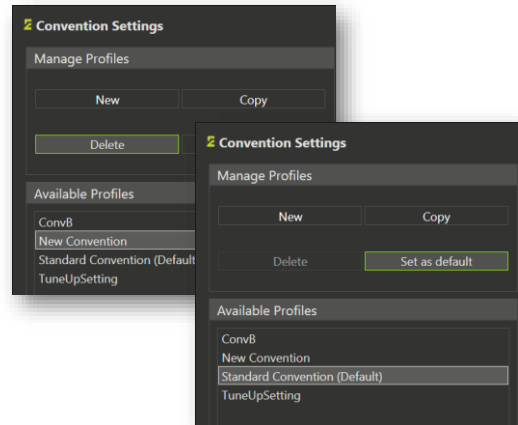
2. Deleting & Default Profiles

Delete Profile

To delete a profile, select it from the list and select "Delete".

Default Profile

The default profile is the profile that will be loaded automatically when a new session is created. To designate a profile as default select it from the list and click "Set as default."



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C. Convention Types & Values

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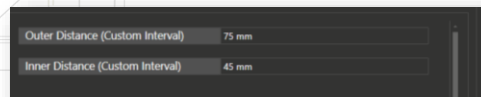
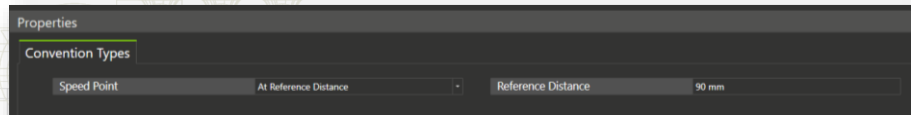
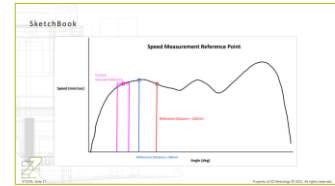
8

C. Convention Types & Values

1. Door Speed Value

Speed Point

The point at which the system measures the speed of the door in Slam tests. This point can be set to a desired reference distance (default 90mm), EZSpeed (average between 75mm & 90mm), or a custom interval.



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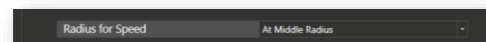
9

C. Convention Types & Values

2. Radius for Speed

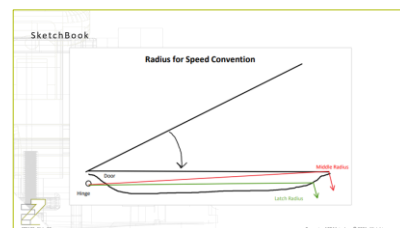
Radius

Select the radius the software uses when calculating speed:



Middle Radius.

Latch Radius.



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C. Convention Types & Values

3. Typical Impact Speed

Typical Speed

Set the speed the software will use for typical speed.

Affects:

- Typical Speed
- Typical Overslam
- Typical Pressure
- Typical Vacuum
- Typical Closing Energy



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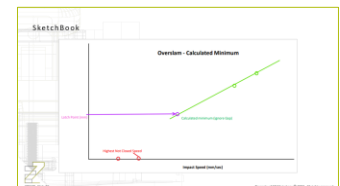
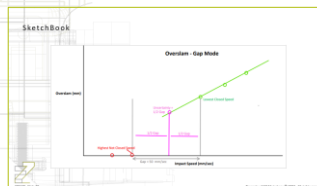
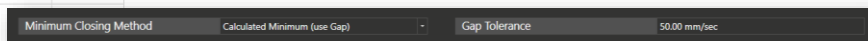
C. Convention Types & Values

4. Minimum Closing Method

Methods

Changes the method in which the software calculates minimum speed:

- Measured Minimum – Software will use the lowest closing speed measured as the minimum.
- Calculated Minimum (use Gap) – Software will calculate the minimum using a gap tolerance set by the user.
- Calculated Minimum (ignore Gap) – Software will calculate the minimum using the lowest closing speed measured, the measured latch point, and overslam data.



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C. Convention Types & Values

5. Compensation

Normal

All measurement values and reported numbers are representing for the current state of the door with EZSlam installed on it. The additional weight of EZSlam might slightly change certain characteristics.

When doing side by side comparisons, this configuration is the most accurate.

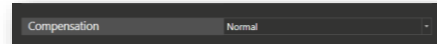
Compensate for Device

The measurements that would evolve when the EZSlam is removed (due to the weight reduction) are compensated for this change in condition.

This configuration is recommended if the final verdict needs to be compared to a physical absolute number.



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C. Convention Types & Values

6. Typical Closing Energy

Reference Speed

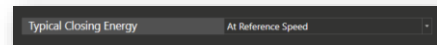
Software will determine typical closing energy using the typical impact speed.

Reference Energy

Software will determine typical closing energy using a reference energy set by the user.



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14

C. Convention Types & Values

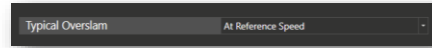
7. Typical Overslam

Reference Speed

Software will calculate typical overslam at the typical impact speed

Measure Maximum

Software will calculate typical overslam at the measured maximum impact speed.



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C. Convention Types & Values

8. Typical Cabin Pressure

Reference Speed

Software will measure typical cabin pressure at the typical impact speed.

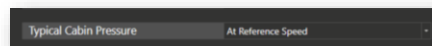
Minimum Closing Speed

Software will measure typical cabin pressure at the calculated minimum impact speed.

Reference Overslam

Software will measure typical cabin pressure at the reference overslam distance.

This is the recommended configuration for cabin evacuation studies when the door is a constant throughout the data collection.



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C. Convention Types & Values

9. Typical Pressure

Typical Pressure

User-defined typical peak pressure.

Typical Pressure 3.00 mbar

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C. Convention Types & Values

10. Radius for Force

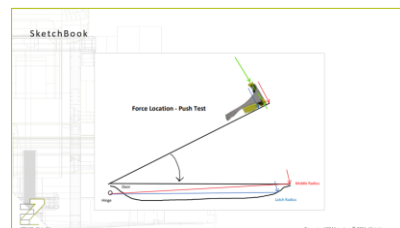
Middle or Latch

The radius used for force measurements can be defined from the drop-down menu as the:

Middle Radius.

Latch Radius.

Radius for Force At Middle Radius



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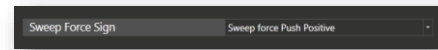
C. Convention Types & Values

11. Sweep Force Sign

Positive or Negative

The convention for sweep force direction can be set as push-positive or push-negative.

This will only flip the orientation of the sweep curve (Open and Close Sweep Force). Measurement values remain unchanged.



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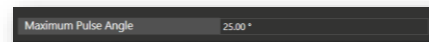
C. Convention Types & Values

12. Maximum Pulse Angle

Max Angle

Sets the maximum angle at which the user can push on the force sensor during a Slam.

When the user pushes or remains in contact with the door beyond this angle, a yellow or red flag will highlight that particular run.



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D. Review



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D. Review

1. Topics Discussed

You should be able to:

- Select an existing convention profile for a session.
- Create, copy, rename & delete convention profiles.
- Set a convention profile as the default profile.
- Edit profile types and values.



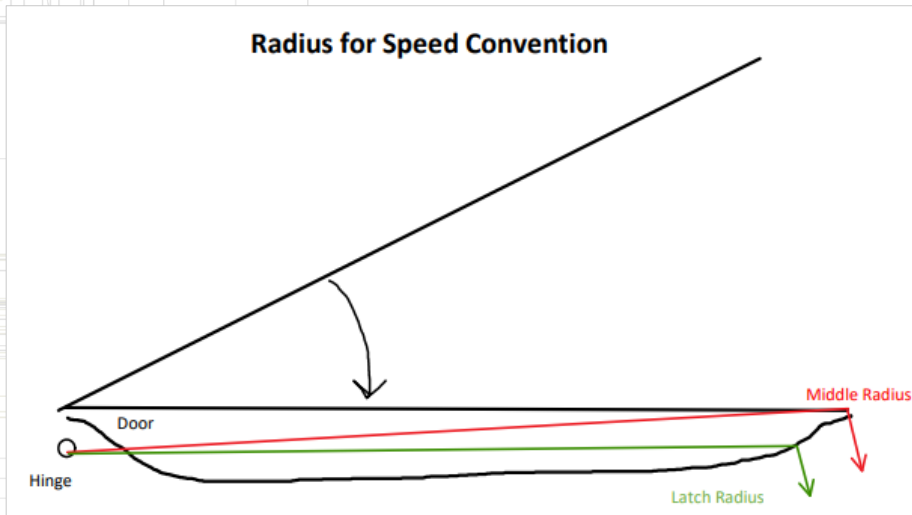
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SketchBook

Radius for Speed Convention



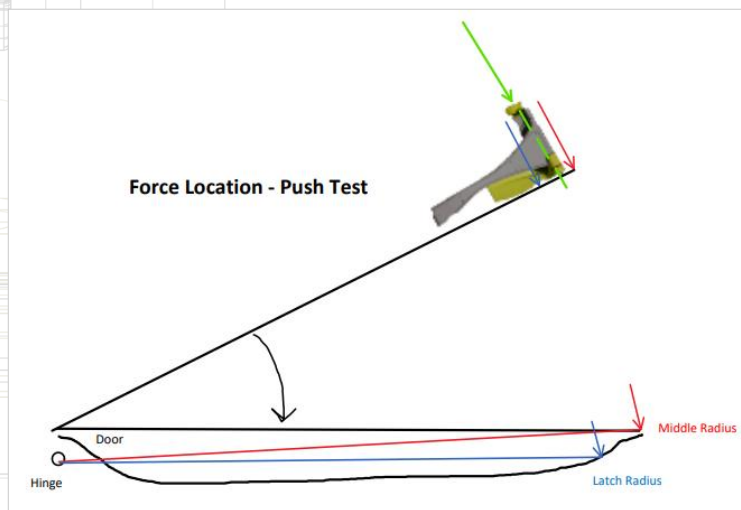
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SketchBook

Force Location - Push Test

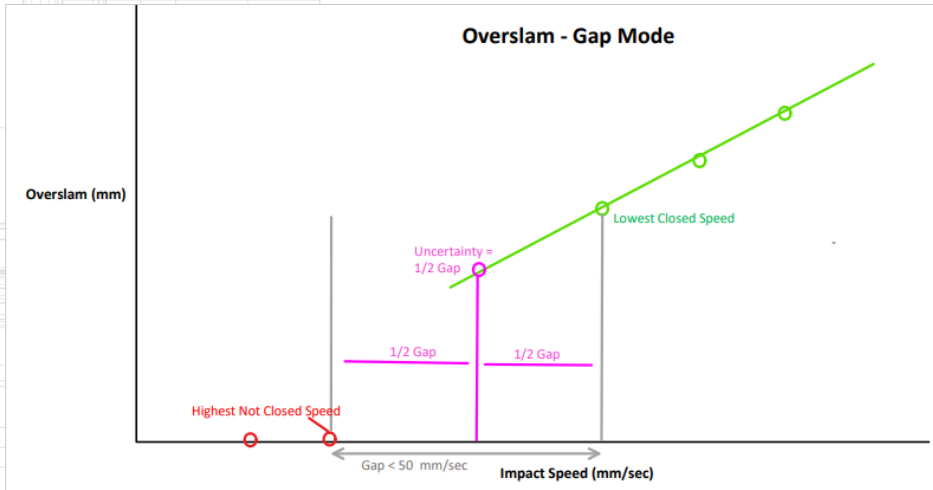


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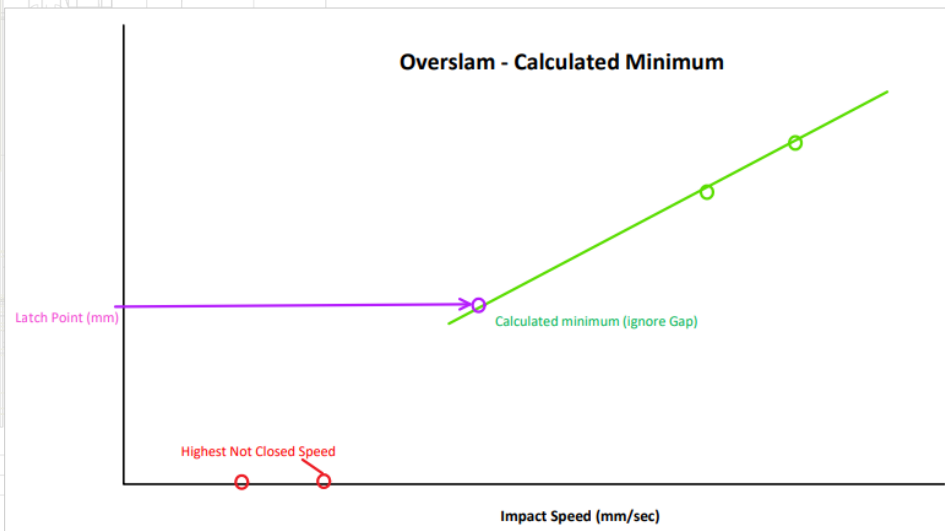


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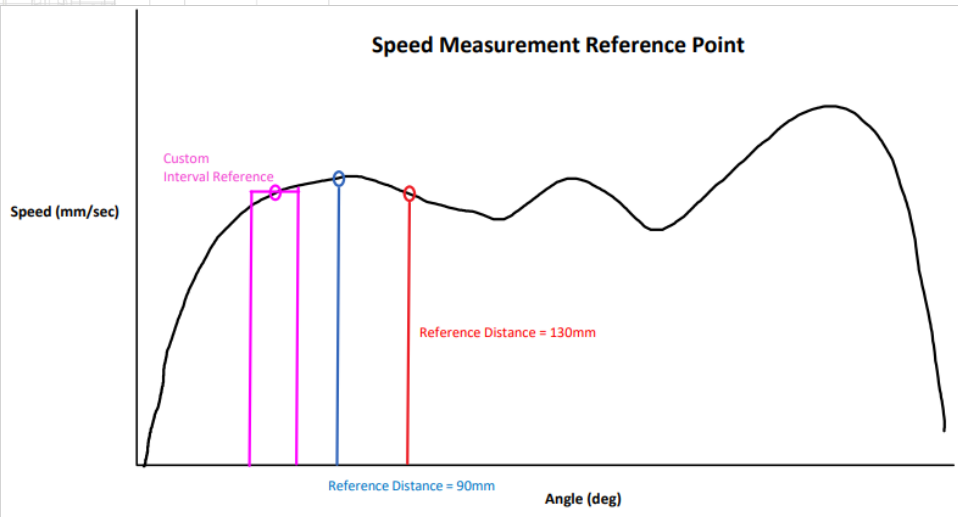


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