



EZSLAM

INSTALLATION/SOFTWARE/USAGE

Q: Question

How is the distribution of the Opening & Closing Energy Balance determined ?

A: Answer

Closing Energy Balance

A Total Energy to Close

Sum of BCD

B Closing Energy Provided by User

Measure Force x Displacement of predicted minimum closing speed slam
(mostly Speed vs Pulse Graph)

C Closing Energy Provided by Gravity

From Door Rise (compensated for Center of Gravity) and Mass of the door.

D Closing Energy Provided by Spring

Determined from Sweep runs (See FAQ033)

E Closing Energy Loss to Drag

Determined based on Slam runs

F Closing Energy Loss to Air Bind

Difference from Kinetic Energy and Static Closing Energy

G Closing Energy Loss to Static Compression

From Push run

H Closing Energy Loss from Gravity

Similar to C but only when door 'falls' open based on the hinge tip.

I Closing Energy Loss to Check (friction)

Based on sweep and slam runs (Checkloss vs Speed)

J Closing Energy Loss from Spring

Based on sweep runs

**Opening Energy Balance**

K Total Energy to Open

Sum of LMN

L Opening Energy Provided by User

Results from Open Sweep

M Opening Energy Provided by Gravity

Same as H

N Opening Energy Provided by Spring

Same as J

O Opening Energy Required by Gravity

Same as C

P Opening Energy Required by Check (friction)

Determined from Checkloss vs Speed but at slow speed.

Q Opening Energy Required by Spring

Same as D