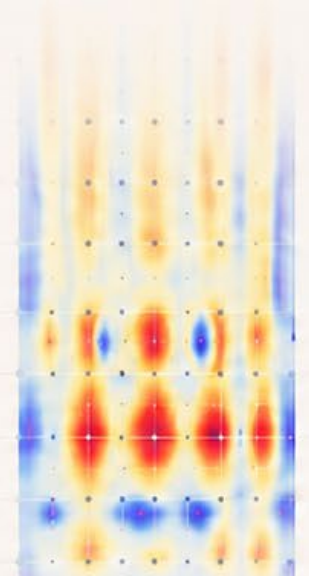
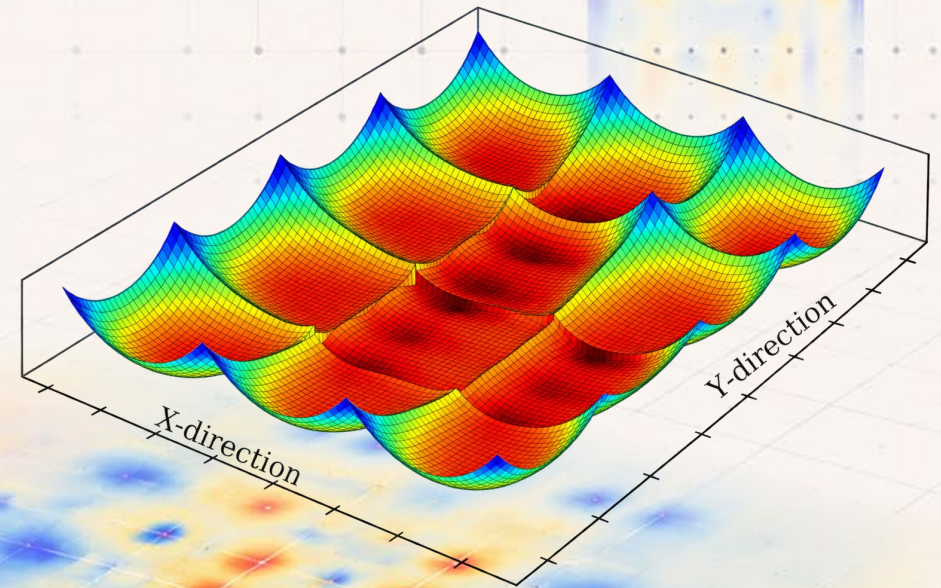


SLABS™

THE FUTURE OF SLAB-ON-GROUND DESIGN

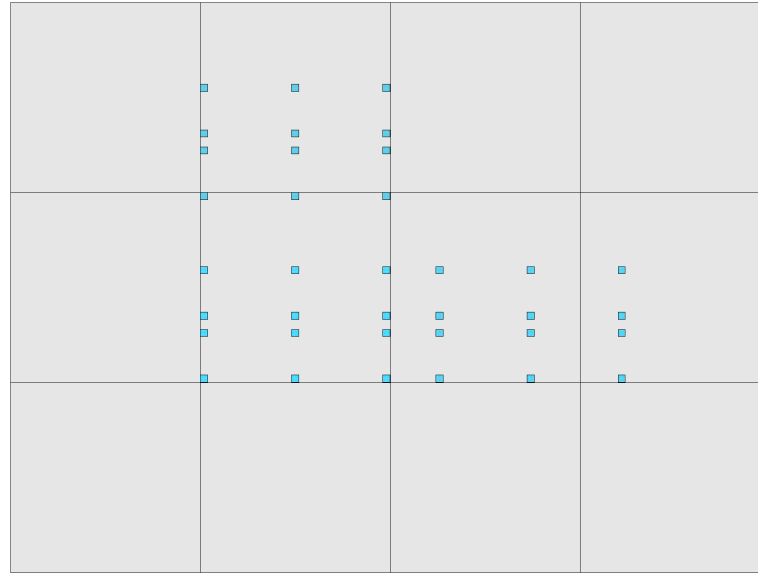
Sponsored by



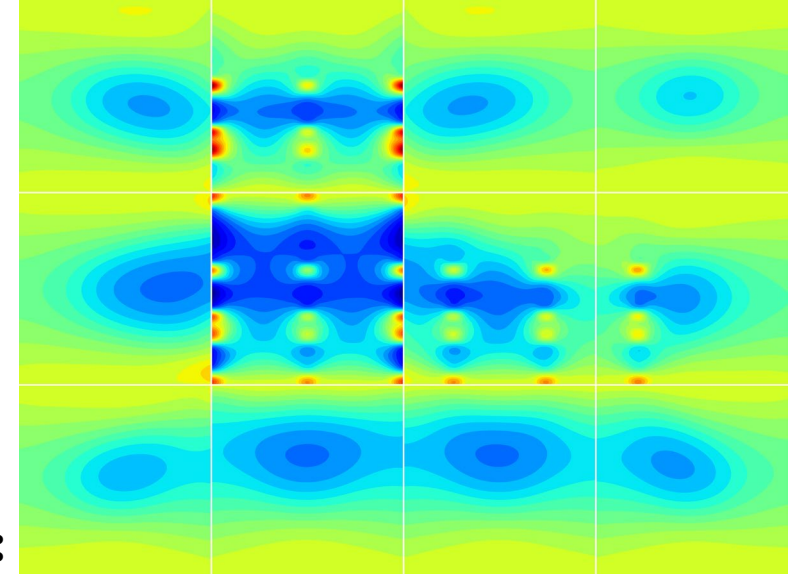
Back-to-Back Racks...

What Controls?

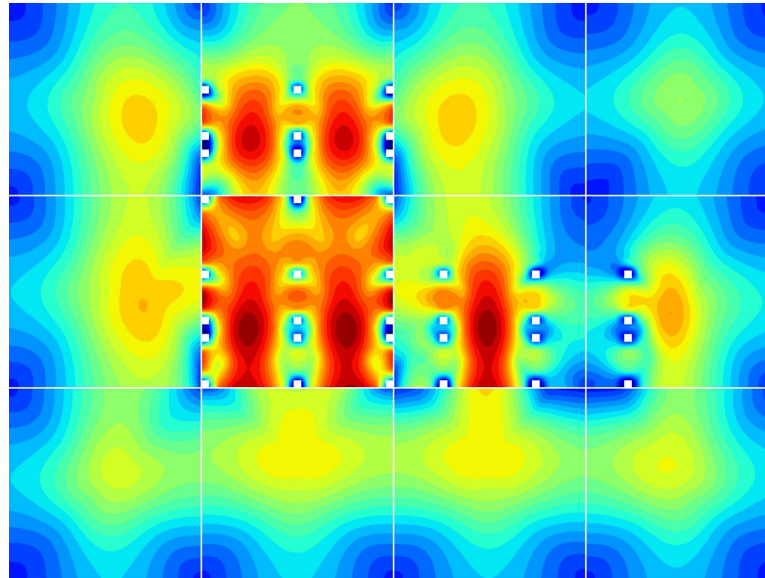
The
Setup:



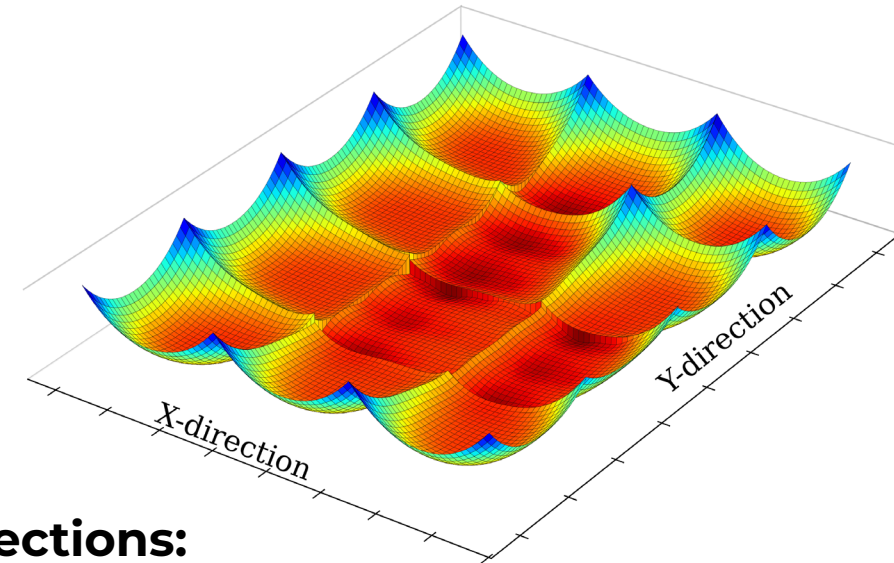
Bottom
Stresses:



Top
Stresses:



Deflections:



Modular...

By Design



Enhanced Integrated
Dowel Model (EIDM)
@ design.americanhighway.com

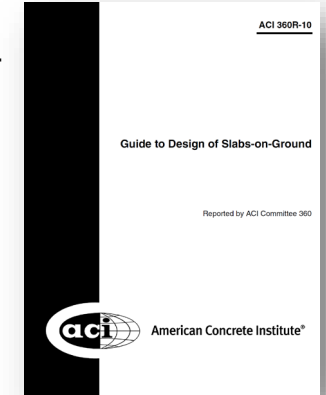


SLABS™

Slab-Base Friction



- or -



JOINTS™



Joint Opening

LTE



Structural Responses:

- Racking Systems
- Lift Trucks
- Uniform Loads
- Point Loads
- ...

This module mechanistically predicts joint openings in a multi-slab system. It is still under development, with the long-term intention of full integration into the SLABS workflow — but also meant to stand alone as a useful tool for understanding anticipated joint openings, especially on long-slab systems.

Edit Layout

SHRINKAGE DEVELOPED

100

%

THICKNESS

7

IN

MODULUS E

4

×10⁶ PSI

SET ALL LENGTHS

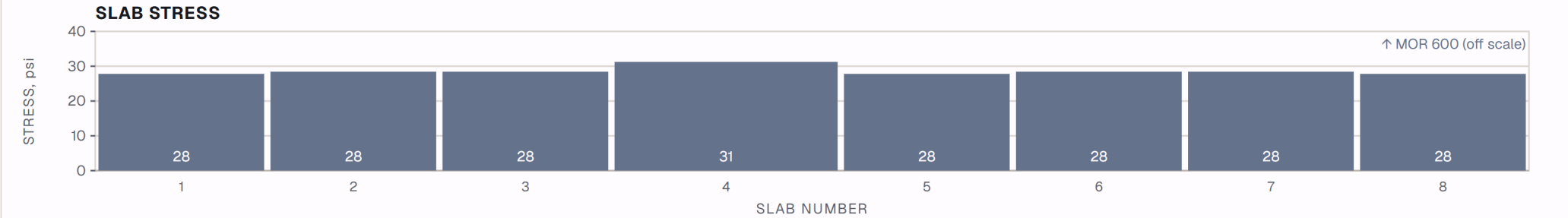
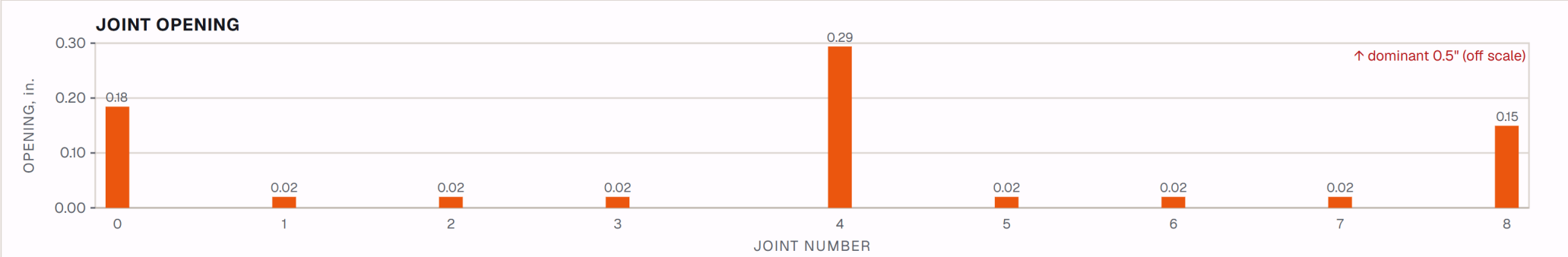
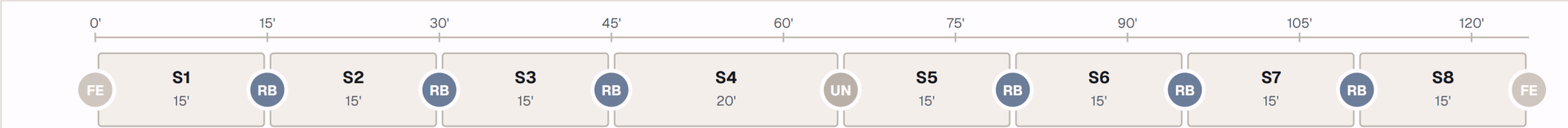
15

FT

Apply

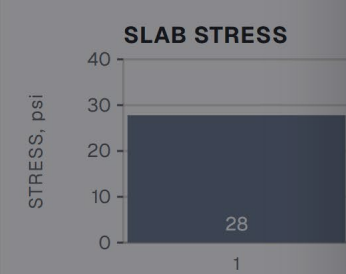
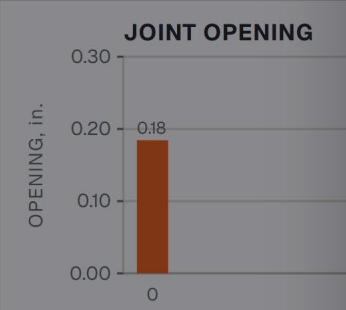
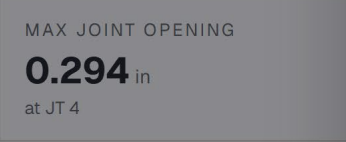
Click a slab to edit its length · click a joint to change its type · all slabs 15 ft wide (Settings)

MAX JOINT OPENING 0.294 in at JT 4	DOMINANT JOINTS 0 > 0.5 in	MAX RESTRAINT STRESS 31.2 psi slab 4	STRENGTH AVAILABLE 569 psi vs MOR 600
---	--	---	--



This module mechanistically predicts joint openings in a multi-slab system. It is still under development, with the long-term intention of full integration into the SLABS workflow — but also meant to stand alone as a useful tool for understanding anticipated joint openings, especially on long-slab systems.

Edit Layout SHRINKAGE



Settings geometry, materials, dowels & limits

Heavy industrial Load

name this preset... Save preset

CONTINUOUS REBAR

ROUND DOWEL

PLATE DOWEL

Thickness 0.5 in

Width 2.5 in

Length 12 in

Taper 4 °

Spacing 18 in

Dist. EOS 6 in

Misalign 2 °

Modulus 2.900e+7 psi

Yield 60000 psi

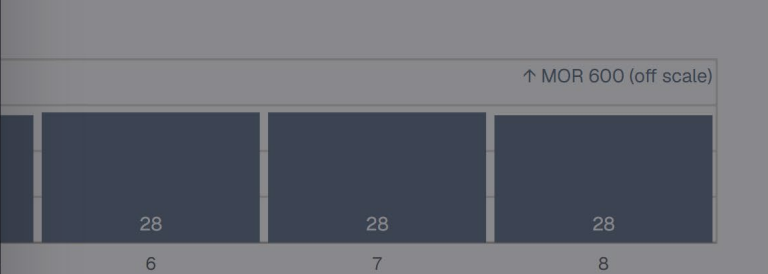
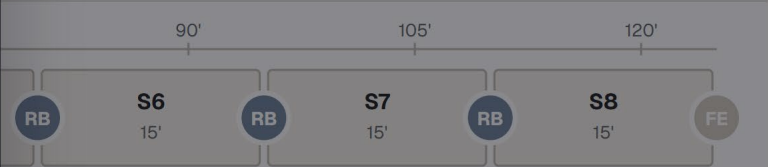
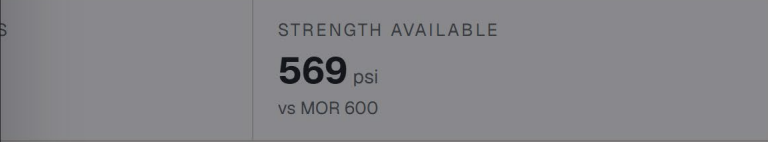
Concrete μ 1

Reset to defaults

Done

x10⁶ PSI SET ALL LENGTHS 15 FT Apply

click a slab to edit its length · click a joint to change its type · all slabs 15 ft wide (Settings)



SLABS™

THE FUTURE OF SLAB-ON-GROUND DESIGN

Sponsored by

