

CASE STUDY

Sea-Tac Secures Checkpoint With Glass and Steel Barrier Walls

60-inch Architectural Partition Walls & Gates at Seattle-Tacoma International Airport, Checkpoint 1

Customer
Seattle-Tacoma International Airport
Location
Security Checkpoint 1
System
Architectural Partition Walls & Gates
Structural analysis
AHZ Consulting Engineers, Inc.
Built and installed by
Lavi Industries

77 ft	18	60 in	7
Run of glass wall	**Lockable doors**	**Wall height**	**Load cases analyzed**
First post to last	Common-keyed	Hard to climb over	All within allowable limits

THE CHALLENGE

- Sea-Tac needed a **hardened checkpoint barrier**: solid, durable, and hard to get past or over.
- Staff had to **see every lane**, so the wall couldn't block sight lines.
- Staff needed to **close any travel document checker podium** not in use, then lock the whole checkpoint overnight.
- The wall also had to look **clean and professional**, like part of the terminal.

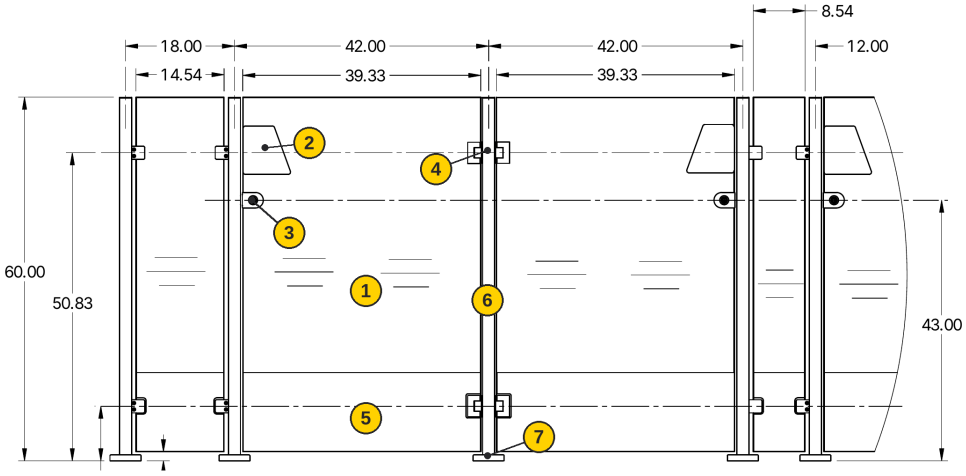
THE ENGINEERING

AHZ Consulting Engineers, an independent structural engineering firm, analyzed the Checkpoint 1 design under seven load cases, seismic included. Every post, flange, and panel stayed within its allowable limit. The drawings and analysis carry a Washington professional engineer's stamp.

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THE SOLUTION

- **A 60-inch glass wall.** A 77-foot run of 3/8-inch tempered glass with polished, chamfered edges keeps every lane in view.
- **18 common-keyed doors.** Each door locks by key, so staff can close a single podium or the entire checkpoint with one key system.
- **316 stainless steel throughout.** Brushed 2 x 2-inch posts have hinges built in. Kick plates and push plates on both sides take daily hits from carts and luggage.
- **Anchored to the slab.** Floor flanges anchor every post to the concrete, and a damaged panel swaps out without taking down the run.
- **Turnkey from Lavi.** Lavi drew, built, and installed the system.



1. 3/8-inch tempered glass, polished edges
2. Brushed stainless push plate, both sides
3. Key lock
4. Hinge built into the post
5. Brushed stainless kick plate, both sides
6. 316 stainless steel post
7. Floor flange, anchored to the slab

A Checkpoint 1 door module, from the project shop drawings.

THE RESULT

Staff close any idle podium with one key and lock the checkpoint overnight, while every lane stays in view. Glass and brushed stainless complement the terminal's design, so the wall looks like it was always there.

Your Project Is Custom, So the Engineering Should Be, Too

Lavi provides project drawings, third-party structural analysis with your engineer or ours, support for your own load testing, and turnkey installation. Get the Sea-Tac Engineering Summary at lavi.com/barriers-and-gates/architectural-partition-walls, or call 1-888-285-8605, Monday through Friday, 7 am to 5 pm Pacific.

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