MCP SERVER | NO CODE | CLOUD HOSTED

# US ADA Compliance Checker MCP

## Automate accessibility verification for construction plans.

US ADA Compliance Checker verifies architectural elements against federal accessibility standards. It automatically checks dimensions for ramps, doors, corridors, parking access, and restrooms to ensure compliance with the Americans with Disabilities Act (ADA). Use this MCP when you need to confirm that a building design meets strict physical requirements before construction can proceed.

**A+** Quality Score 100/100

ada | accessibility | compliance | architecture | safety

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vinkius.com/mcp/us-ada-compliance-checker

SCAN TO VIEW

# The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

# Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

## Four Pillars of the Vinkius Runtime

**01 — Security by design**

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

**02 — Built on MCP Fusion**

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

**03 — Deterministic observability**

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

**04 — Autonomous operations**

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

| AES-256 | Ed25519 | 24h TTL | V8 Isolate |
|---|---|---|---|
| Encryption at rest | PKI vault signatures | Ephemeral session keys | Sandboxed execution |

## One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

## Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

**01 — Ed25519 PKI Vault**

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

**02 — V8 Isolate Sandboxing**

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

**03 — SSRF Guard**

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

**04 — DLP & PII Redaction**

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

**05 — Cryptographic Audit Trail**

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

**06 — Honeytoken Trap System**

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

# Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

**01 — Server deactivated**

The MCP server is immediately taken offline across the entire cluster.

**02 — All tokens revoked**

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

**03 — WebSocket connections killed**

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

## Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

**Control Plane**

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**Incident Log**

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

# US ADA Compliance Checker MCP

5 tools available
Cloud-hosted on Vinkius

Designing or renovating public spaces requires rigorous adherence to federal mandates. This MCP automates verification for critical architectural dimensions required by the ADA. Instead of manually calculating slopes, widths, and clearances against complex rulebooks, your agent runs these measurements through a specialized compliance engine. You just input the physical data—like a door width or ramp rise—and get an immediate pass/fail status based on current law. Because Vinkius hosts this MCP in its catalog, you can connect it once from any compatible client and access reliable, standardized testing for every facet of accessibility planning.

## Core Capabilities

**01 — Verify Ramp Steepness**

Determines if a ramp's incline meets the maximum allowable steepness ratio.

**02 — Check Doorway Passage Width**

Confirms that doorways provide enough unobstructed width for passage.

**03 — Confirm Corridor Clearance**

Checks if hallways and corridors maintain adequate minimum widths.

**04 — Test Parking Dimensions**

Validates that both the parking stall and the required access aisle meet accessibility dimensions.

**05 — Assess Restroom Turning Space**

Checks if a restroom's internal diameter allows for proper wheelchair maneuverability and turning radius.

## One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/us-ada-compliance-checker** — connect your AI agent in three steps.

01 You provide the specific physical measurements you need checked, such as ramp dimensions or corridor width.

02 The MCP sends these raw metrics to a specialized compliance engine that compares them against federal ADA guidelines.

03 Your agent returns a clear status: either compliant (and often citing which rule was met) or non-compliant (specifying the exact dimension failure).

The bottom line is you get instant, authoritative pass/fail reports on complex accessibility measurements.

## Built For

Architectural firms, construction project managers, and facilities engineers rely on this MCP. If your job requires signing off on public access or commercial space layouts, you need this to avoid costly rework and legal issues.

**Architect**

Uses the MCP to model preliminary designs and ensure that every structural element—from stairwells to main entrances—meets ADA standards before submitting blueprints.

**Construction Project Manager**

Runs compliance checks on field measurements, verifying that installed components like door frames or corridor walls match the required accessible dimensions.

**Accessibility Consultant**

Applies the tool to existing building plans to identify specific areas of failure (e.g., insufficient restroom turning diameters) and recommend immediate fixes.

## What Changes When You Connect

01 Avoid expensive site rework. Running the `check_ramp_compliance` tool early in the design process flags slope issues instantly, saving time and money later.

02 Guarantee safe passage widths. Use `check_door_clearance_compliance` to confirm every entry point meets minimum unobstructed width requirements.

03 Simplify parking validation. The `check_parking_access_compliance` tool confirms that both the stall size and the access aisle meet federal standards simultaneously.

04 Confirm hallway safety. Quickly use `check_corridor_width_compliance` to ensure all main pathways maintain adequate clearance for mobility devices.

05 Verify turning space instantly. The `check_restroom_maneuverability_compliance` tool confirms if a restroom has enough diameter for proper wheelchair turns.

## Real-World Applications

**Designing a New Office Buildout**

An architect needs to submit final plans for an office building. They use the MCP, running `check_corridor_width_compliance` and `check_door_clearance_compliance`. The agent confirms all public pathways are clear, ensuring the project passes initial accessibility review without redlines.

**Retrofitting an Old Commercial Building**

A facilities manager is updating a decades-old retail space. They run `check_restroom_maneuverability_compliance` and find several restrooms are too small for modern standards, immediately flagging the need to redesign those specific areas.

**Planning a University Campus Expansion**

A project lead is designing new campus parking. They use `check_parking_access_compliance` and find that several planned spots are too close to structural columns, requiring them to adjust the layout before pouring concrete.

**Reviewing a Steeply Sloped Site**

A consultant is evaluating a site with varied grades. They use `check_ramp_compliance` and determine that their initial ramp design has an illegal slope ratio, prompting them to revise the structure for easier navigation.

# Patterns to Avoid

### Assuming Dimensions Are Fine

✗ AVOID

The team copies a general minimum width (like 32 inches) and assumes every doorway meets it, leading to construction delays when field measurements fail.

✓ INSTEAD

Don't guess. Use `check_door_clearance_compliance` with the exact opening dimensions of each door to get an authoritative pass/fail report.

### Checking Only One Component

✗ AVOID

Only testing the depth of a parking spot but forgetting the required access aisle width, resulting in non-compliant lot layouts.

✓ INSTEAD

Always use `check_parking_access_compliance`. This tool validates both the stall and the necessary surrounding access aisle dimensions in one step.

### Relying on Manual Calculation

✗ AVOID

Manually calculating ramp slopes using trigonometry, which is prone to human error or misinterpreting complex regulatory ratios.

✓ INSTEAD

Use `check_ramp_compliance`. It processes the rise and run ratio against current federal standards instantly.

## The Right Fit

You must use this MCP if your work involves verifying physical dimensions—like widths, slopes, or turning circles—against a specific, complex legal code, such as ADA. If you're doing that, running `check_ramp_compliance` is essential. Don't use it if you are only reviewing conceptual flow diagrams without knowing the actual measured clearances; those issues need an architect first. However, if your job involves comparing one measurement (like just a door width) against multiple standards (e.g., ADA *and* local fire code), you might need to run a separate type of specialized tool, as this MCP focuses strictly on federal accessibility compliance.

## The Hidden Risks in Building Design

Right now, checking for full ADA compliance is a nightmare. Architects and project managers spend days cross-referencing building blueprints with dense regulatory manuals. They measure everything—doorways, hallways, ramps—and then manually compare each number against the rules to see if it passes.

Using this MCP changes that process completely. Instead of hours of comparison work, you input the measurements into your agent and get an immediate, clear answer on whether or not the design fails compliance. You get actionable reports instantly.

## US ADA Compliance Checker: Get Guaranteed Dimensional Accuracy

Specific checks like `check_restroom_maneuverability_compliance` and `check_corridor_width_compliance` used to require complex drawings and manual verification by a specialist. You no longer need that; the MCP handles the math based on federal rules.

Your designs are now validated against current law, making compliance checks fast, accurate, and repeatable every single time.

# US ADA Compliance Checker: 5 Tools Available

These tools allow you to run precise compliance checks on specific architectural features, ensuring every dimension meets US ADA standards.

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | `check_corridor_width_compliance` | Verifies if a corridor provides enough width for safe passage and passing. |
| 02 | `check_door_clearance_compliance` | Checks if a doorway is wide enough to allow unobstructed passage of people or equipment. |
| 03 | `check_parking_access_compliance` | Validates that the dimensions for both a parking stall and its adjacent access aisle are compliant. |
| 04 | `check_ramp_compliance` | Determines if the slope or incline of a ramp falls within the maximum allowed steepness ratio. |
| 05 | `check_restroom_maneuverability_compliance` | Checks for sufficient diameter within a restroom to allow for proper wheelchair turning space. |

# See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

**U** Is a ramp with a 2-inch rise and 30-inch run compliant?

No, the slope is 1:15, which exceeds the maximum allowed ratio of 1:12.

**U** Check if a 36-inch door is wide enough.

Yes, a 36-inch width meets the minimum requirement of 32 inches.

**U** Is a 65-inch turning diameter sufficient for a restroom?

Yes, the 65-inch diameter exceeds the minimum requirement of 60 inches.

# Frequently Asked Questions

01 **What is the US ADA Compliance Checker for?**

This MCP verifies if architectural dimensions meet federal Americans with Disabilities Act standards. It checks things like ramp slopes, door widths, and restroom turning space so your design is legally accessible.

02 **Can I check parking spots with the US ADA Compliance Checker?**

Yes, you can use `check_parking_access_compliance`. This tool validates both the dimensions of a specific parking stall and the required adjacent access aisle simultaneously.

03 **Does this MCP cover fire code compliance too?**

No. This MCP is strictly dedicated to ADA accessibility standards, focusing on clearances and maneuverability for people with disabilities. You need other specialized tools for general life safety or fire codes.

04 **How do I use the check_ramp_compliance tool?**

You provide the ramp's rise (vertical height) and run (horizontal length). The MCP then determines if the resulting slope ratio exceeds the maximum allowed steepness for ADA compliance.

05 **Is this US ADA Compliance Checker reliable enough for construction?**

It is built to use federal guidelines. It provides specific, technical pass/fail metrics that engineers rely on, ensuring your dimensions meet the necessary legal thresholds.

# Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

| CLIENT | WHERE TO CONFIGURE |
|---|---|
| Claude AI | Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint |
| Cursor | Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint |
| VS Code | Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"us-ada-compliance-checker": { "url": "…" }` |
| Windsurf | MCP Settings → `mcp_settings.json` → Add endpoint URL |
| ChatGPT | Settings → Tools & plugins → Add MCP server → Paste endpoint |
| Gemini | Extensions → Add MCP Server → Paste endpoint URL |

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

# US ADA Compliance Checker is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

**Start at cloud.vinkius.com →**

vinkius.com · support@vinkius.com

## INDEPENDENT PLATFORM DISCLAIMER

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