

## System requirements

### Recommended system requirements (for best performance and future-proofing)

- **Graphics card:** NVIDIA RTX 3060 or higher / AMD Radeon RX 6700 XT or higher / Intel Arc A750 or higher
- **Screen resolution:** 1920 × 1080 or higher
- **Processor:** Intel Core i5 (12th Gen) or higher / AMD Ryzen 5 (5000 Series) or higher
- **RAM:** 16 GB or more
- **Hard drive:** 30 GB free storage space (SSD/NVMe recommended)
- **Operating system:** Windows 11 or Windows Server 2019 or later
- **Miscellaneous:** Mouse with scroll wheel

### Standard requirements (for smooth performance)

- **Graphics card:** NVIDIA GTX 1660 Super or higher / AMD Radeon RX 6600 or higher / Intel Arc A580 or higher
- **Screen resolution:** 1920 × 1080
- **Processor:** Intel Core i5 (10th Gen) or higher / AMD Ryzen 5 (3000 Series) or higher
- **RAM:** 12 GB
- **Hard drive:** 30 GB free storage space (SSD recommended)
- **Operating system:** Windows 10 or Windows Server 2012 or later
- **Miscellaneous:** Mouse with scroll wheel

### Minimum requirements (for basic functions, but not ideal for large projects)

- **Graphics card:** Intel UHD Graphics 730 or higher / NVIDIA GTX 1050 Ti or higher / AMD Radeon RX 550 or higher
- **Screen resolution:** 1280 × 1024 or higher
- **Processor:** Intel Core i3 (8th Gen) or higher / AMD Ryzen 3 (2000 Series) or higher
- **RAM:** 8 GB
- **Hard drive:** 30 GB free storage space (SSD recommended)
- **Operating system:** Windows 10 or Windows Server 2012 or later
- **Miscellaneous:** Mouse with scroll wheel

## Required firewall and proxy permissions

Port	Protocol	Use
443	HTTPS / HTTP/2 (h2)	Main communication (encrypted)
80	HTTP	Fallback / Redirect to HTTPS

## Domains to be allowed (firewall / proxy)

- \*.lencr.org – *SSL certificate validation*
- \*.furncloud.de
- \*.furnplan.de
- \*.furnport.de
- \*.furnco.de

## Additionally required for furnplan online / furnview

- www.gstatic.com / www.google.com – *reCAPTCHA*

## Minimum internet requirements

Parameter	Minimum	Recommended
Download speed	10 Mbit/s	25+ Mbit/s
Upload speed	1 Mbit/s	5 Mbit/s
Latency (ping)	< 150 ms	< 50 ms
Packet loss	< 2 %	< 0.5 %

## Browser requirements

Browser	Min. Version
Google Chrome	120+
Microsoft Edge	120+
Mozilla Firefox	130+
Safari (macOS)	17+
Internet Explorer	<b>NOT supported</b>

## Technical browser requirements

- **WebGL 2.0:** Must be supported and enabled by the browser and graphics hardware.
- **JavaScript:** Must be activated
- **Cookies:** Must be allowed for the domains listed above
- **Pop-up Blocker:** Must be disabled for the domains listed above
- **Hardware acceleration:** Must remain enabled in the browser

## Further recommendations

- **Use a LAN connection instead of Wi-Fi:** Wi-Fi instability can lead to loading errors.
- **Do not clear the browser cache :** On the initial launch, numerous resources are downloaded. On subsequent launches, these are available from the cache, which significantly reduces loading time.