

## REVIT 2019 SYSTEM REQUIREMENTS

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## 1. PERFORMANCE: LARGE, COMPLEX MODELS

<b>Operating System <sup>1</sup></b>	<p><b>Microsoft Windows 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>CPU Type</b>	<p>Multi-Core Intel Xeon, or i-Series processor or AMD equivalent with SSE2 technology. Highest affordable CPU speed rating recommended.</p> <p>Autodesk Revit software products will use multiple cores for many tasks, using up to 16 cores for near-photorealistic rendering operations.</p>
<b>Memory</b>	<p>16 GB RAM</p> <ul style="list-style-type: none"> <li>Usually sufficient for a typical editing session for a single model up to approximately 700 MB on disk. This estimate is based on internal testing and customer reports. Individual models will vary in their use of computer resources and performance characteristics.</li> <li>Models created in previous versions of Revit software products may require more available memory for the one-time upgrade process.</li> </ul>
<b>Video Display Resolutions</b>	<p><b>Minimum:</b> 1920 x 1200 with true color</p> <p><b>Maximum:</b> Ultra-High (4k) Definition Monitor</p>
<b>Video Adapter</b>	DirectX 11 capable graphics card with Shader Model 5
<b>Disk Space</b>	<ul style="list-style-type: none"> <li>5 GB free disk space</li> <li>10,000+ RPM (for Point Cloud interactions) or Solid State Drive</li> </ul>
<b>Media</b>	Download or installation from DVD9 or USB key
<b>Pointing Device</b>	MS-Mouse or 3Dconnexion compliant device
<b>Browser</b>	Microsoft Internet Explorer 7.0 (or later)
<b>Connectivity</b>	Internet connection for license registration and prerequisite component download

## 2. VALUE: BALANCED PRICE AND PERFORMANCE

<b>Operating System <sup>1</sup></b>	<p><b>Microsoft Windows 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>CPU Type</b>	<p>Multi-Core Intel Xeon, or i-Series processor or AMD equivalent with SSE2 technology. Highest affordable CPU speed rating recommended.</p> <p>Autodesk Revit software products will use multiple cores for many tasks, using up to 16 cores for near-photorealistic rendering operations.</p>
<b>Memory</b>	<p>8 GB RAM</p> <ul style="list-style-type: none"> <li>Usually sufficient for a typical editing session for a single model up to approximately 300 MB on disk. This estimate is based on internal testing and customer reports. Individual models will vary in their use of computer resources and performance characteristics.</li> <li>Models created in previous versions of Revit software products may require more available memory for the one-time upgrade process.</li> </ul>
<b>Video Display Resolutions</b>	<p><b>Minimum:</b> 1680 x 1050 with true color</p> <p><b>Maximum:</b> Ultra-High (4k) Definition Monitor</p>
<b>Video Adapter</b>	DirectX 11 capable graphics card with Shader Model 5
<b>Disk Space</b>	5 GB free disk space
<b>Media</b>	Download or installation from DVD9 or USB key
<b>Pointing Device</b>	MS-Mouse or 3Dconnexion compliant device
<b>Browser</b>	Microsoft Internet Explorer 7.0 (or later)
<b>Connectivity</b>	Internet connection for license registration and prerequisite component download

## 3. MINIMUM: ENTRY-LEVEL CONFIGURATION

<b>Operating System <sup>1</sup></b>	<p><b>Microsoft® Windows® 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>CPU Type</b>	<p>Single- or Multi-Core Intel® Pentium®, Xeon®, or i-Series processor or AMD® equivalent with SSE2 technology. Highest affordable CPU speed rating recommended.</p> <p>Autodesk Revit software products will use multiple cores for many tasks, using up to 16 cores for near-photorealistic rendering operations.</p>
<b>Memory</b>	<p>4 GB RAM</p> <ul style="list-style-type: none"> <li>Usually sufficient for a typical editing session for a single model up to approximately 100 MB on disk. This estimate is based on internal testing and customer reports. Individual models will vary in their use of computer resources and performance characteristics.</li> <li>Models created in previous versions of Revit software products may require more available memory for the one-time upgrade process.</li> </ul>
<b>Video Display Resolutions</b>	<p><b>Minimum:</b> 1280 x 1024 with true color</p> <p><b>Maximum:</b> Ultra-High (4k) Definition Monitor</p>
<b>Video Adapter</b>	<p><b>Basic Graphics:</b> Display adapter capable of 24-bit color</p> <p><b>Advanced Graphics:</b> DirectX® 11 capable graphics card with Shader Model 3</p>
<b>Disk Space</b>	5 GB free disk space
<b>Media</b>	Download or installation from DVD9 or USB key
<b>Pointing Device</b>	MS-Mouse or 3Dconnexion® compliant device
<b>Browser</b>	Microsoft® Internet Explorer® 7.0 (or later)
<b>Connectivity</b>	Internet connection for license registration and prerequisite component download

## 4. REVIT LT 2019

<b>Operating System <sup>1</sup></b>	<p><b>Microsoft Windows 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>CPU Type</b>	Single- or Multi-Core Intel Pentium, Xeon, or i-Series processor or AMD equivalent with SSE2 technology. Highest affordable CPU speed rating recommended.
<b>Memory</b>	<p>4 GB RAM</p> <ul style="list-style-type: none"> <li>• Usually sufficient for a typical editing session for a single model up to approximately 100 MB on disk. This estimate is based on internal testing and customer reports. Individual models will vary in their use of computer resources and performance characteristics.</li> <li>• Models created in previous versions of Revit software products may require more available memory for the one-time upgrade process.</li> <li>• /3GB RAM switch not recommended where applicable. Revit software and system stability can be affected by memory conflicts with video drivers when the /3GB switch is active.</li> </ul>
<b>Video Display Resolutions</b>	<p><b>Minimum:</b> 1280 x 1024 with true color</p> <p><b>Maximum:</b> Ultra-High (4k) Definition Monitor</p>
<b>Video Adapter</b>	<p><b>Basic Graphics:</b> Display adapter capable of 24-bit color</p> <p><b>Advanced Graphics:</b> DirectX 11 capable graphics card with Shader Model 5</p>
<b>Disk Space</b>	5 GB free disk space
<b>Media</b>	Download or installation from DVD9 or USB key
<b>Pointing Device</b>	MS-Mouse or 3Dconnexion compliant device
<b>Browser</b>	Microsoft Internet Explorer 7.0 (or later)
<b>Connectivity</b>	Internet connection for license registration and prerequisite component download

## 5. CITRIX: RECOMMENDED-LEVEL CONFIGURATION <sup>2</sup>

<b>Citrix System</b>	<ul style="list-style-type: none"> <li>• XenApp® 6.5 Feature Pack 2</li> <li>• Citrix® License Manager</li> <li>• Citrix® Profile Manager</li> </ul>
<b>Server OS</b>	As specified by XenApp® system requirements
<b>Authentication</b>	<ul style="list-style-type: none"> <li>• Microsoft® Active Directory               <ul style="list-style-type: none"> <li>○ Roaming Profiles supported</li> </ul> </li> </ul>
<b>Client OS</b>	<ul style="list-style-type: none"> <li>• Microsoft Windows 7 SP1 64-bit</li> <li>• Microsoft Windows 8.1 64-bit</li> <li>• Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher)</li> </ul>
<b>Client Browser</b>	Microsoft Internet Explorer 7.0 (or later)
<b>User Access</b>	<p>Client computers should be bound to the network domain. Each client computer should have either the <u>full Citrix or web client plug-in</u> installed.</p> <p>Users should use their domain logins to access both the Citrix web console and the LAN.</p>

## 6. VMWARE: RECOMMENDED-LEVEL CONFIGURATION <sup>3</sup>

<b>VMware Software</b>	<ul style="list-style-type: none"> <li>VMware Horizon® 6.1 or later</li> <li>VMware vSphere® 6 or later</li> </ul>
<b>Virtual Machine Operating System</b>	<p><b>Microsoft Windows 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>Host Server Recommendation</b>	<b>Performance <sup>4</sup></b>
<b>CPU</b>	3.0 GHz+ Intel Xeon E5 or later; or AMD equivalent with SSE2 technology
<b>Memory</b>	384-512 GB
<b>Networking</b>	10 Gb
<b>Storage</b>	~750+ IOPS Per User
<b>GPU</b>	NVIDIA GRID K2 or later
<b>Virtual Machine Settings</b>	<b>Performance <sup>4</sup></b>
<b>Memory</b>	16-32 GB RAM
<b>vCPUs</b>	8 vCPUs
<b>Disk Space</b>	Minimum 5 GB free disk space
<b>Graphics Adapter</b>	NVIDIA® GRID K260Q (2 GB) or later
<b>Virtual Machine Connectivity</b>	Internet connection for license registration and prerequisite component download.
<b>User Access</b>	Each client computer should have the <u><a href="#">VMware Horizon Client</a></u> installed.

## 7. PARALLELS DESKTOP® 11 FOR MAC: RECOMMENDED-LEVEL CONFIGURATION

<b>Host Operating System &amp; Hardware Type</b>	Apple® macOS® Apple MacBook Pro® 10,1; iMac® 14,1 or newer
<b>Memory</b>	16 GB
<b>CPU Type</b>	2.7 GHz quad-core Intel Core i7™ recommended
<b>Virtualization Software</b>	Parallels Desktop 11 for Mac or newer
<b>Virtual Machine Operating System*</b>	<p><b>Microsoft Windows 7 SP1 64-bit:</b> Enterprise, Ultimate, Professional, or Home Premium</p> <p><b>Microsoft Windows 8.1 64-bit:</b> Enterprise, Pro, or Windows 8.1</p> <p><b>Microsoft Windows 10 Anniversary Update 64-bit (version 1607 or higher):</b> Enterprise, or Pro</p>
<b>Virtual Machine Browser</b>	Microsoft Internet Explorer 7.0 (or later)
<b>Virtual Machine Memory</b>	<p>8 GB RAM</p> <ul style="list-style-type: none"> <li>Usually sufficient for a typical editing session for a single model up to approximately 100 MB on disk. This estimate is based on internal testing and customer reports. Individual models will vary in their use of computer resources and performance characteristics.</li> <li>Models created in previous versions of Revit software products may require more available memory for the one-time upgrade process.</li> </ul>
<b>Virtual Machine Video Adapter</b>	<p>512 MB video memory minimum dedicated to the Microsoft Windows Virtual Machine.</p> <p><b>Note:</b> While at Retina® display resolutions on macOS, turn off any Retina Resolution options in Parallels Desktop to adjust for proper DPI within Windows and Revit software products.</p> <p><b>Graphics:</b> Parallels Desktop virtual display adapter without “Use Hardware Acceleration” option in Revit software products.</p>
<b>Video Adapter</b>	<ul style="list-style-type: none"> <li>NVIDIA GeForce® GT 650M - 2880 x 1800 with 24-bit color</li> <li>Intel Iris Pro - 1920 x 1080 with 32-bit color</li> <li>or newer (see Virtual Video Adapter note)</li> </ul>
<b>Disk Space</b>	Minimum 40 GB free disk space; recommend 100 GB free disk space available
<b>Media</b>	Download or installation from USB key
<b>Pointing Device</b>	MS-Mouse or 3Dconnexion compliant device
<b>Connectivity</b>	Internet connection for license registration and prerequisite component download



## 8. NOTES

<sup>1</sup> Learn more about using Autodesk Revit 2019 or Autodesk Revit LT 2019 software with Boot Camp, part of macOS that enables you to install and run Microsoft Windows (and Windows-based applications) on a Mac® computer or with Parallels Desktop, a system utility available from Parallels, Inc. that allows you to run applications in each operating system without restarting your computer.

<sup>2</sup> Disclaimer: The Citrix application is network-based and performance of Autodesk Revit for Citrix software products may vary with network performance. The software does not include the Citrix application, nor does Autodesk provide direct support for issues with the Citrix application. Users should contact Citrix directly with questions related to procurement and operation of the Citrix application.

<sup>3</sup> Disclaimer: The VMware application is network-based and performance of Autodesk Revit for VMware software products may vary with network performance. The software does not include the VMware application, nor does Autodesk provide direct support for issues with the VMware application. Users should contact VMware directly with questions related to procurement and operation of the VMware application.

<sup>4</sup> Please see: <http://www.nvidia.com/revitappguide>