

### System requirements for Civil 3D 2023

<b>Operating System</b>	64-bit Microsoft® Windows® 11 or Windows 10 version 1809 or above. See Autodesk's <a href="#">Product Support Lifecycle</a> for support information.
<b>Processor</b>	<b>Minimum:</b> 2.5–2.9 GHz processor (base) ARM Processors are not supported. <b>Recommended:</b> 3+ GHz processor (base), 4+ GHz (turbo)
<b>Memory</b>	<b>Basic:</b> 8 GB <b>Recommended:</b> 16 GB
<b>Display Resolution</b>	<b>Conventional Displays:</b> 1920 x 1080 with True Color <b>High Resolution &amp; 4K Displays:</b> Resolutions up to 3840 x 2160 (with capable display card)
<b>Display Card</b>	<b>Basic:</b> 1 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant <b>Recommended:</b> 4 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles Please be sure to use the latest video card manufacturer drivers from their website.
<b>Disk Space</b>	20 GB (suggested SSD)
<b>Network</b>	See <a href="#">Autodesk Network License Manager for Windows</a>
<b>Pointing Device</b>	MS-Mouse compliant
<b>.NET Framework</b>	.NET Framework Version 4.8 or later

### Additional Requirements for large datasets, point clouds, and 3D modeling

<b>Memory</b>	16 GB RAM or more
<b>Disk Space</b>	6 GB free hard disk available, not including installation requirements
<b>Display Card</b>	3840 x 2160 (4K) or greater True Color video display adapter; 4 GB VRAM or greater; Pixel Shader 3.0 or greater; DirectX-capable workstation class graphics card.

## AutoCAD Map 3D Additional Requirements (Windows Only)

### FDO Provider Requirements

FDO Provider	Certified With	Notes
<b>Microsoft SQL Server</b>	Microsoft SQL Server 2017 Standard and Enterprise Editions Microsoft SQL Server 2019 Standard and Enterprise Editions	Industry Models also support the versions of Microsoft SQL Server listed on the left.
<b>Oracle 12c Release 2</b>	Oracle 12.2.0.1.0 Standard Edition and Enterprise Edition	Industry Models support the same Oracle versions as listed on the left.
<b>Oracle 18c</b>	Oracle 18.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
<b>Oracle 19c</b>	Oracle 19.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
<b>Oracle 21c</b>	Oracle 21.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
<b>Raster</b>	DEM, JPG2K, DTED, MrSID®, ECW, PNG, ESRI® Grid, TIFF, JPEG, ESRI® ASCII	
<b>Autodesk SDF</b>	3.0	
<b>ESRI ArcGIS</b>	ArcGIS® 10.8.1 ArcGIS 10.7.1 ArcGIS 10.6.1	This Provider requires ESRI licensed components (ArcGIS Engine/ArcGIS Desktop) to be installed on Map 3D installed system.
<b>MySQL</b>	8.0	
<b>ODBC</b>	The FDO ODBC provider has been tested with corresponding versions of ODBC drivers that are shipped with the relevant supported operating systems version.	
<b>OGC WMS</b>	WMS 1.3.0	
<b>OGC WMTS</b>	WMS 1.0.0	
<b>OGC WFS</b>	WFS 2.0.0	
<b>SQLite</b>	SQLite 3.27.2	
<b>PostgreSQL</b>	PostgreSQL 13.5 + PostGIS 3.0	

### ODBC Drivers

Microsoft® Access® Driver (\*.mdb, \*.acddb)  
Microsoft® Excel® Driver (\*.xls, \*.xlsx, \*.xlsm, \*.xlsb)  
MySQL® ODBC 8.0 Driver  
SQL Server®  
Oracle® in OraClient19Home1

### Tested Versions

Microsoft Access database engine 2016 (English)  
16.00.4999.1000  
Microsoft Access database engine 2016 (English)  
16.00.4999.1000  
8.00.27.00  
10.00.19041.01  
21.00.00.00