

# WEST

## Installation Guide 2025



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# 1 Introduction

This installation guide covers the installation of WEST 2025 and required 3<sup>rd</sup> party software.

WEST 2025 is available as:

1. 32-bit version
2. 64-bit version, requiring the installation of an external compiler

This guide describes the installation process for all the different deployment patterns and required associated 3<sup>rd</sup> party software.

**Important information:** Please be aware that all MIKE software (including the DHI License Manager) on the same computer must be installed with the same version. This is due to the dependencies between MIKE software products and our wish to use the latest and technically most advanced development systems.

## 2 Installation Prerequisites

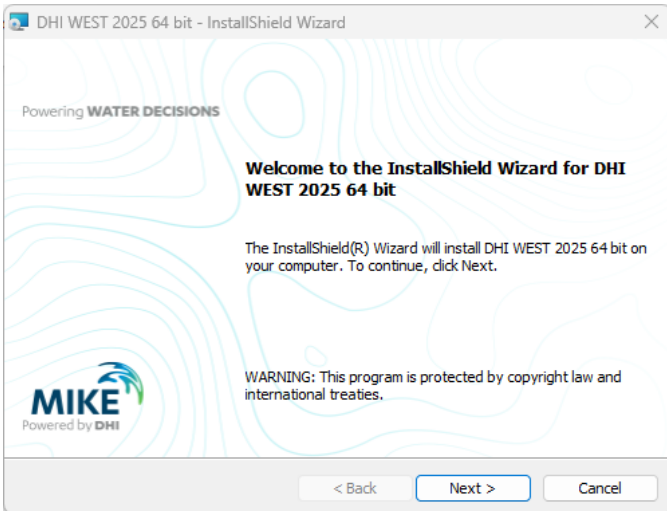
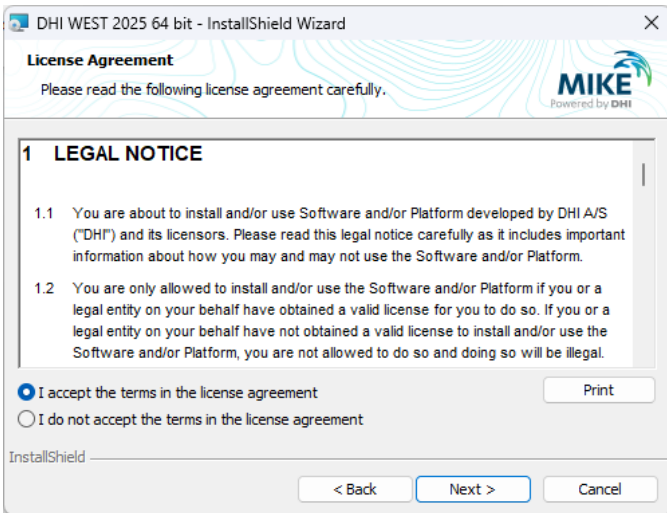
WEST 2025 depends on some prerequisites as listed below:

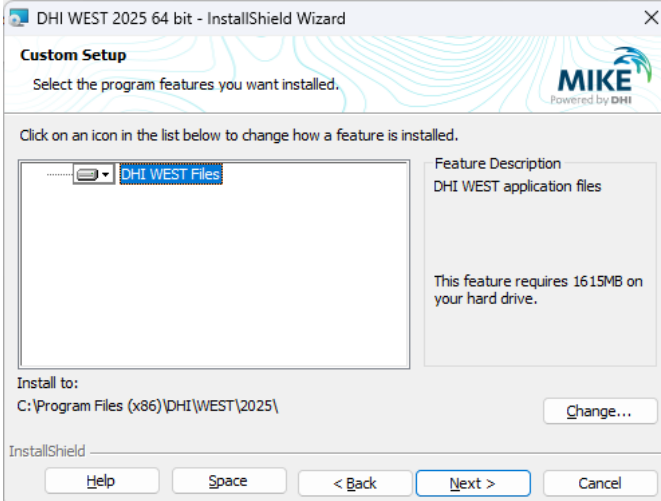
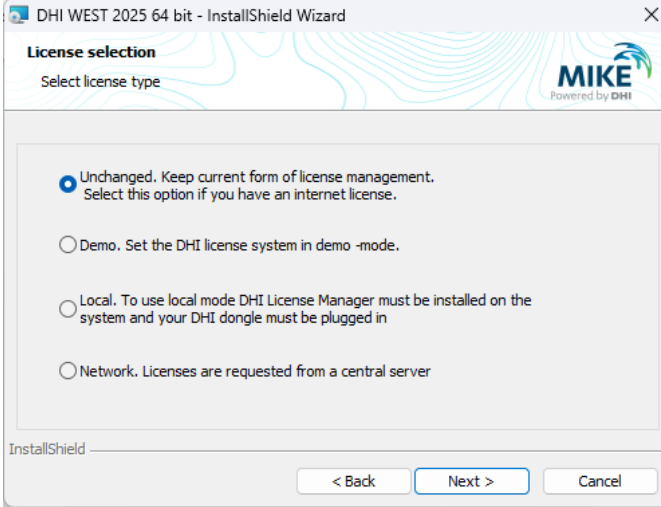
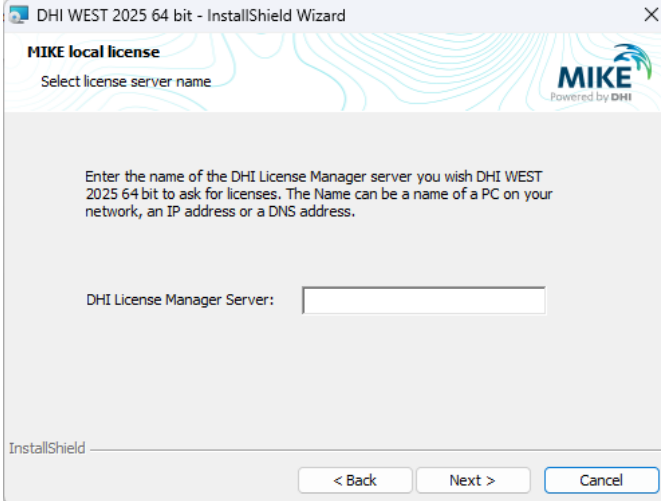
1. Fully supported Windows operating systems:
  - Windows 11 Pro, version 23H2 (64 bit)
  - Windows 10 Pro, version 22H2 (64 bit)
  - Windows Server 2022, version 21H2
2. The DHI License Management application, to be downloaded and installed separately. Only required if local license mode (physical dongle) is used.
3. Microsoft .NET framework 4.7.2 or later

### 3 WEST Installation/Upgrade

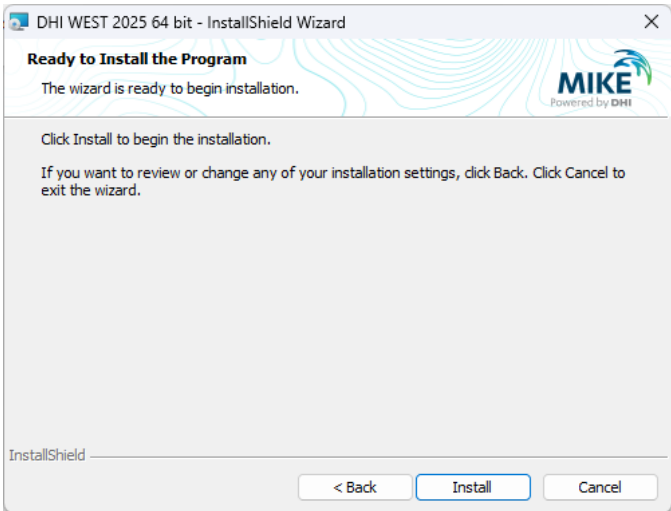
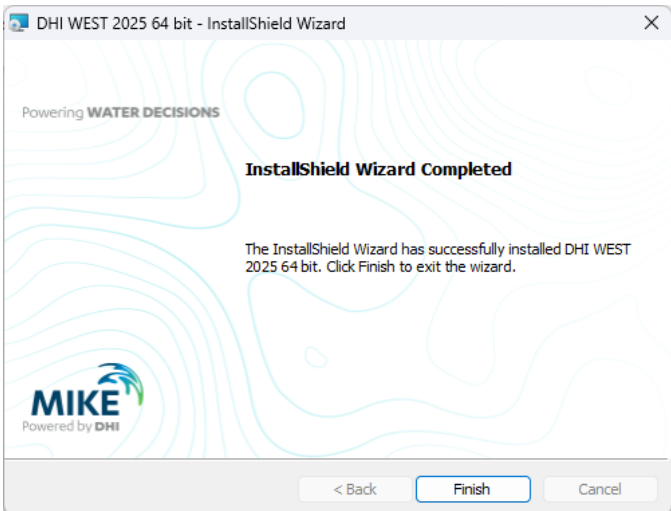
WEST 2025 is installed by running the *Setup.exe* program included in the installation package. The installation process is the same for both 32-bit and 64-bit versions of WEST.

The installation of the WEST is simple and requires no user interactions beyond accepting the license conditions and specifying the installation folder. The following table outlines the installation steps for WEST 2025.

Installation step	Screen
<p>Run the setup.exe file from the installation media/download folder.</p> <p><i>Note: Refer to the installation guide of the DHI License Manager for more information about features and license configuration.</i></p> <p><b>Click Next</b></p>	
<p><b>Accept</b> the license agreement</p> <p><b>Click Next</b></p>	

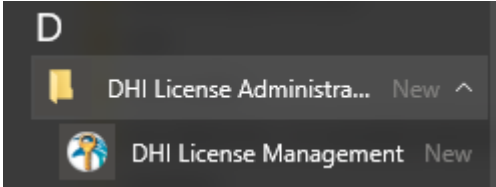
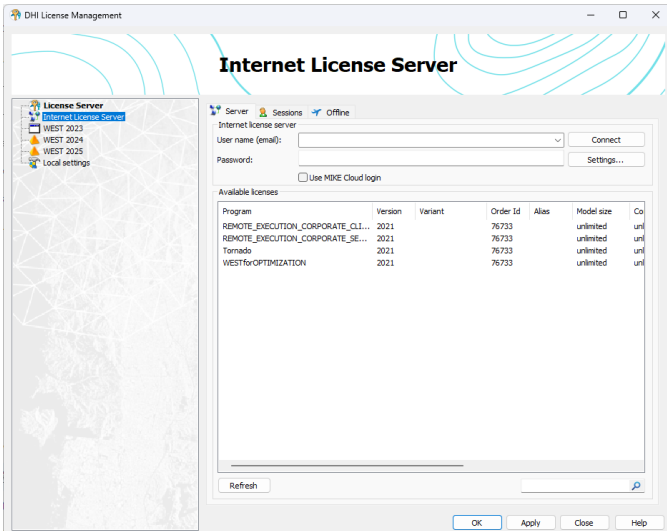
Installation step	Screen
<p><b>Select</b> the components to install.</p> <p><i>Note: If desired, the user can select a different destination folder than the default one by clicking “Change”</i></p> <p><b>Click Next</b></p>	
<p><b>Select</b> the type of license available</p> <p><i>Unchanged:</i> if the installation relies on the pre-existing license, or on Internet-based license</p> <p><i>Demo:</i> for testing of the software without a license</p> <p><i>Local:</i> if license is based on physical dongle</p> <p><i>Network:</i> if the license to be used is installed on a remote license server or IP number of the license server.</p> <p><b>Click Next</b></p>	
<p><b>Only if ‘Network’ is selected:</b> provide IP address or DNS address of the license server.</p> <p><b>Click Next</b></p>	



Installation step	Screen
<p><b>Launch</b> the installation</p>	
<p><b>Click</b> Finish</p>	

## 4 DHI License File

The DHI license is handled through the DHI License Management software, which can be found under DHI License Administration in the Start Menu.

Installation step	Screen
<p><b>Open</b> the DHI License Management program in the start menu as <b>administrator</b> (right click and select the option 'Run as Administrator')</p>	
<p>There are three options:</p> <ul style="list-style-type: none"> <li>• Internet License</li> <li>• Network License</li> <li>• Local License (dongle)</li> </ul> <p>Click the <b>Help</b> button, for more information or contact your local MIKE Sales representative.</p>	

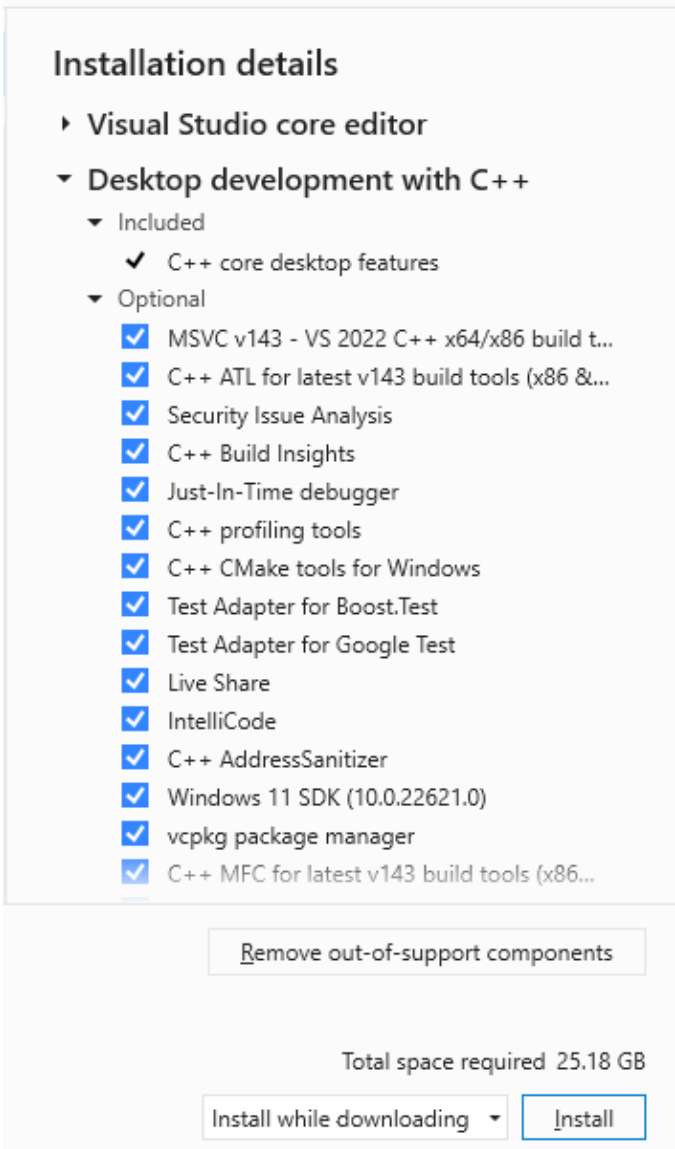
## 5 Installation and use of external compiler

Depending on the version of WEST installed, the user is required to install and activate an external compiler. **Use of an external compiler is required for WEST 64-bit, while it is optional for WEST 32-bit.** The recommended compiler in this Installation Guide is Microsoft Visual C++ (VC++) compiler, which is available as part of Visual Studio Community 2022 suite.

### 5.1 Visual Studio Community 2022 Installation

Download Visual Studio Community from <https://visualstudio.microsoft.com/downloads/> and launch the installation by running `vs_community.exe`.

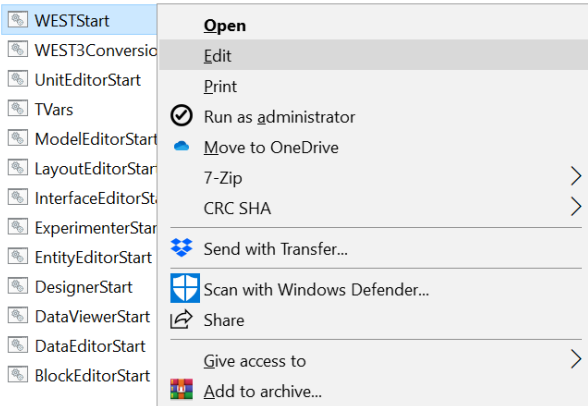
Instructions	Screen
<p>Read Privacy Statement and accept License Terms.</p> <p><i>Disclaimer: by accepting Microsoft Software License Terms, the user confirms to comply with terms of use of Visual Studio Community products as 3<sup>rd</sup> party components.</i></p> <p><i>License terms can also be found here:</i>  <a href="https://visualstudio.microsoft.com/license-terms/mlt031819/">https://visualstudio.microsoft.com/license-terms/mlt031819/</a></p>	
<p>Select the workload <b>Desktop development with C++</b></p>	

Instructions	Screen
<p>In the Installation Details (right hand panel) <b>select all</b> Optional features available to ensure installation of build tools and Windows SDK</p> <p><b>Click Install</b></p>	 <p><b>Installation details</b></p> <ul style="list-style-type: none"> <li>▶ Visual Studio core editor</li> <li>▼ Desktop development with C++ <ul style="list-style-type: none"> <li>▼ Included <ul style="list-style-type: none"> <li>✓ C++ core desktop features</li> </ul> </li> <li>▼ Optional <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MSVC v143 - VS 2022 C++ x64/x86 build t...</li> <li><input checked="" type="checkbox"/> C++ ATL for latest v143 build tools (x86 &amp;...</li> <li><input checked="" type="checkbox"/> Security Issue Analysis</li> <li><input checked="" type="checkbox"/> C++ Build Insights</li> <li><input checked="" type="checkbox"/> Just-In-Time debugger</li> <li><input checked="" type="checkbox"/> C++ profiling tools</li> <li><input checked="" type="checkbox"/> C++ CMake tools for Windows</li> <li><input checked="" type="checkbox"/> Test Adapter for Boost.Test</li> <li><input checked="" type="checkbox"/> Test Adapter for Google Test</li> <li><input checked="" type="checkbox"/> Live Share</li> <li><input checked="" type="checkbox"/> IntelliCode</li> <li><input checked="" type="checkbox"/> C++ AddressSanitizer</li> <li><input checked="" type="checkbox"/> Windows 11 SDK (10.0.22621.0)</li> <li><input checked="" type="checkbox"/> vcpkg package manager</li> <li><input checked="" type="checkbox"/> C++ MFC for latest v143 build tools (x86...</li> </ul> </li> </ul> </li> </ul> <p>Remove out-of-support components</p> <p>Total space required 25.18 GB</p> <p>Install while downloading ▾ <input type="button" value="Install"/></p>

Once the installation is completed, all components can be retrieved in the folder *C:\Program Files\Microsoft Visual Studio\2022\Community\*

## 5.2 Use of external compiler in WEST 32-bit (optional)

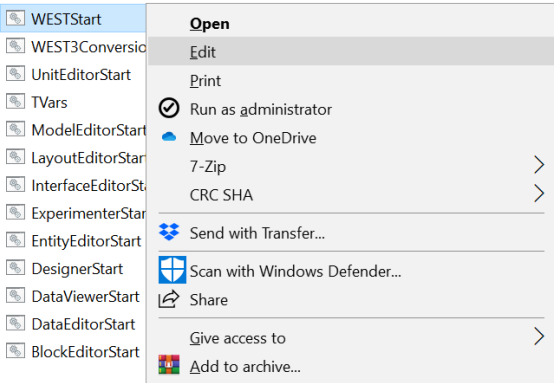
If you want to use the C-compiler with a 32-bit version of WEST (optional), you need to modify the automatically generated batch file **WESTStart.bat** located in the folder ...\\Public\\Documents\\DHI\\WEST\\bin.

Instructions	Screen
<p>Right click on <b>WESTStart.bat</b> and <b>Edit</b></p>	
<p>Set <b>TORNADO_CC_PLATFORM</b> to <b>win32-msvc</b></p>	<pre>SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win32-msvc SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNADO_CC_PLATFORM=win32-msvc SET TORNADO_CC_PATH= SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>
<p>Add the following statement as first line:</p> <p><b>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat"</b></p> <p>Mind the use of " " quotes.</p> <p><i>Note: The path to vcvars32.bat file may differ depending on the version of Visual Studio installed (in this case, it refers to 2022 version)</i></p>	<pre>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win32-msvc SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNADO_CC_PLATFORM=win32-msvc SET TORNADO_CC_PATH= SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>
<p>If necessary, replace the line</p> <p><b>SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win32-msvc</b></p> <p>with the line</p> <p><b>SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib</b></p>	<pre>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNADO_CC_PLATFORM=win32-msvc SET TORNADO_CC_PATH= SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>

Instructions	Screen
<b>Save</b> WESTStart.bat and launch WEST	

## 5.3 Use of external compiler in WEST 64-bit (required)

In order to enable WEST 64-bit to use the C-compiler, you need to modify the automatically generated batch file **WESTStart.bat** located in the folder ...\\Public\\Documents\\DHI\\WEST\\bin.

Instructions	Screen
<p>Right click on <b>WESTStart.bat</b> and <b>Edit</b></p>	
<p>Add the following statement as first line:</p> <p><b>CALL "C:\Program Files (x86)\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat"</b></p> <p>Mind the use of " " quotes.</p> <p><i>Note: The path to vcvars64.bat file may differ depending on the version of Visual Studio installed (in this case, it refers to 2022 version)</i></p>	<pre>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win64-msvc SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNAO_CC_PLATFORM=win64-msvc SET TORNAO_CC_PATH= SET TORNAO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNAO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>
<p>If necessary, replace the line</p> <p><b>SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win64-msvc</b></p> <p>with the line</p> <p><b>SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib</b></p>	<pre>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNAO_CC_PLATFORM=win64-msvc SET TORNAO_CC_PATH= SET TORNAO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNAO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>
<p>Optionally, if faster compilation at the expense of slower simulation is desired, add the following to WESTStart.bat:</p> <p><b>SET TORNAO_CC_OPTIMIZE=no</b></p>	<pre>CALL "C:\Program Files\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;%PATH% SET TORNAO_CC_PLATFORM=win64-msvc SET TORNAO_CC_PATH= SET TORNAO_CC_OPTIMIZE=no SET TORNAO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNAO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT</pre>

Instructions	Screen
<b>Save</b> WESTStart.bat and launch WEST	