lateral buckling restraint - attaches - steel check - creep - charges climatiques - dynamic analysis - lateral buckling - brandweerstandsanalyse - timber - 1st order - verstijvers - buisverbinding - diseño de planos de armaduras - pandeo lateral - verbindingen - shear connection - verificación - armatures longitudinales - pórtico - unión base columna - voorontwerp - unión tubular - haunch - connexion moment - cimbras - vérification acier - unity check - Eurocode 2 - mesh - retaining wall - raidisseur - Eurocode 3 - longitudes de pandeo - connections - ACI 138 - acero - 2nd ordre - portal frame - Eurocode 8 - andamios - kip - dwarskrachtverbinding - BS 8110 - dalle de fondation - seismische analyse - armaduras longitudinales - BIM - gelaste verbinding - 2de orde - buckling - funderingszool - poutre sur plusieurs appuis - maillage - malla - uniones - 2D raamwerken - fire resistance analysis - voiles - cracked deformation - gescheurde doorbuiging - longueurs de flambement - pandeo - reinforcement - unity check - cantonera - dynamische analyse - hout - ossatures 3D - koudgevormde profielen - placa de extreme - 1er orden - continuous beam - connexion soudée - momentverbinding - praktische wapening - renforts au déversement - fluencia - estribos - déformation fissurée - EHE - beugels - Eurocódigo 3 - platine de bout - análisis dinámico - column base plate - kruip - rigid link - welded connection - charpente métallique - moment connections - estructuras 2D - kniestuk - assemblage métallique - 3D raamwerken - second ordre - beam grid - cargas climáticas - Eurocode 2 - Eurocode 5 - wall - deformación fisurada - lien rigide - enlace rígido - 2D frames - estructuras 3D - éléments finis - vloerplaat - steel connection - scheurvorming - integrated connection design - armatures pratiques - analyse sismique - nieve y viento - practical reinforcement - charges mobiles - dalle - wapening - perfiles conformados en frío - Eurocode 3 - connexion tubulaire - unión a momento - 3D frames - treillis de poutres - roof truss - practical reinforcement design - portique - kipsteunen - análisis sísmico - Eurocode 8 - seismic analysis - B.A.E.L 91 - uniones atornilladas - bolts - ossatures 2D - eindige elementen - losa de cimentación - restricciones para el pandeo lateral - optimisation - wand - kniklengtes - end plate - dakspanten - kolomvoetverbinding - stirrups - acier - staalcontrole - cálculo de uniones integrado - paroi - dessin du plan de ferraillage - stiffeners - mobiele lasten - Eurocódigo 8 - Eurocódigo 5 - longitudinal reinorcement - doorlopende liggers - rigidizador - beton armé - fluage - CTE - connexion pied de poteau - langswapening - connexions - hormigón - neige et vent - elementos finitos - armaduras - cold

with CodeMeter Key

Installation guide

formed steel - jarret - uittekenen wapening - puente grúa - analyse dynamique - flambement - keerwanden - optimisation - steel - cercha - 2º orden - slab on grade foundation - entramado de vigas - Eurocode 5 - prédimensionnement - multi span beam - bouten - armatures - floor slab - poutre continue - pared - staal - 1er ordre - NEN 6770-6771 - connexion cisaillement - losa - déversement - viga continua - predimensionering - 1ste orde - unión metálica - CM 66 - madera - análisis resistencia al fuego - verbindingen - 2nd order - bois - Eurocode 2 - profilés formés à froid - verificación acero - predesign - unión soldada - fisuración - beton - muro de contención - optimalisatie - foundation pads - fissuration - concrete - AISC-LRFD - HCSS - assemblage métallique - Eurocode 3 - viga con varios apoyos - armaduras prácticas - balkenroosters - unión a cortante - buckling length - boulons - cracking - Eurocode 8 - knik - Eurocode 2 - radier - eindplaat - Eurocódigo 2 - FEM - tornillos - NEN 6720 - moving loads - balk op meerdere steunpunten - cargas móviles - funderingsplaat - étriers - analye resistance au feu - cercha - moment connections - estructuras 2D - kniestuk - assemblage métallique - dalle - profilés formés à froid - verificación acero - predesign - unión soldada — fisuración - multi span beam - radier

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1. Introduction

This guide covers the installation of the BuildSoft software: Diamonds, PowerConnect, BIM Expert, ConCrete, 12-Build.

Before we get started, there are a few things you should know:

- The use of BuildSoft software requires the program *CodeMeter Control Centre*. This programs manages the licenses. CodeMeter Control Centre is thus always required. Without CodeMeter Control Centre, no licenses will be found and you won't be able to start the software.
- You can find the most recent installation files (*.exe's) of CodeMeter Control Centre and the BuildSoft software on our website: https://buildsoft.eu/nl/downloadtrial.
- BuildSoft licenses are delivered on a CodeMeter license dongle ( ).
- In order to conduct a complete and correct installation of the BuildSoft products, LOG IN AS ADMINISTRATOR. If necessary, add an exception to your anti-virus!

2. System requirements

2.1. Diamonds, PowerConnect, BIM Expert (2020 or newer)

- Software
  - MS Windows 8/ 8.1 or 10 (64 bit is recommended)
  - CodeMeter Control Centre for managing the licenses
    If you install Diamonds, PowerConnect or BIM Expert, and Codemeter Control Center is not installed, it will be installed for you.
  - Gateway for managing the databases
    If you install Diamonds, PowerConnect or BIM Expert, and Gateway is not installed, it will be installed for you.
  - .NET Framework version 2.0 and 4.7.2
- Hardware
  - 12-16GB RAM, depending on how many heavy programs (like CAD, Revit, Tekla Structures, …) you want to run simultaneously.
  - SSD (= Solid State Drive) for saving your Diamonds projects
  - Calculated results will be written to a Temp-folder. The reading and writing to this folder goes faster when the hard disk is an SSD.
  - Intel i7 processor (the higher the clock speed, the faster the calculations will go)

2.2. ConCrete, 12-Build

- Software
  - MS Windows 8/ 8.1 or 10
  - CodeMeter Control Centre for managing the licenses.

You have to install CodeMeter Control Centre before you run the ConCrete and/or 12-Build installer.

- Hardware: every current computer on the market is able to run ConCrete/ 12-Build.

3. Installation

3.1. CodeMeter Control Centre and license dongle

The licenses can be managed in two ways:

- In local management (see §3.1.1) the license dongle ( ) and the BuildSoft software are used on the same computer.
- In network management (see §3.1.2) the license dongle ( ) and the BuildSoft software are NOT used on the same computer.

3.1.1. Local license management

On each station where you plan to use the BuildSoft software:

- Install CodeMeter Control Centre.
- Plug in the license dongle(s) directly into the computer. Don't use an USB-hub.
  The license dongle must remain in the computer as long as you want to use the BuildSoft software
  Read on buildsoftsupport.com how to check which licenses are on your dongle and if they are still valid.
- Install the BuildSoft software (see §0).

3.1.2. Network license management

The license dongle(s) are managed on the server station. The server station can be any device within the network to which all users have access at all desired time intervals.

On the client station:

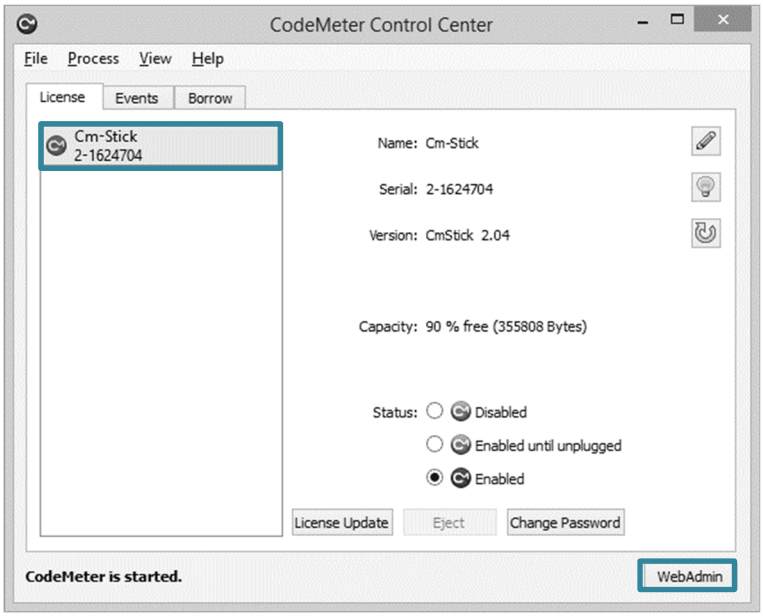
- Install CodeMeter Control Centre.
- Install the BuildSoft software (see §0).

On the server station:

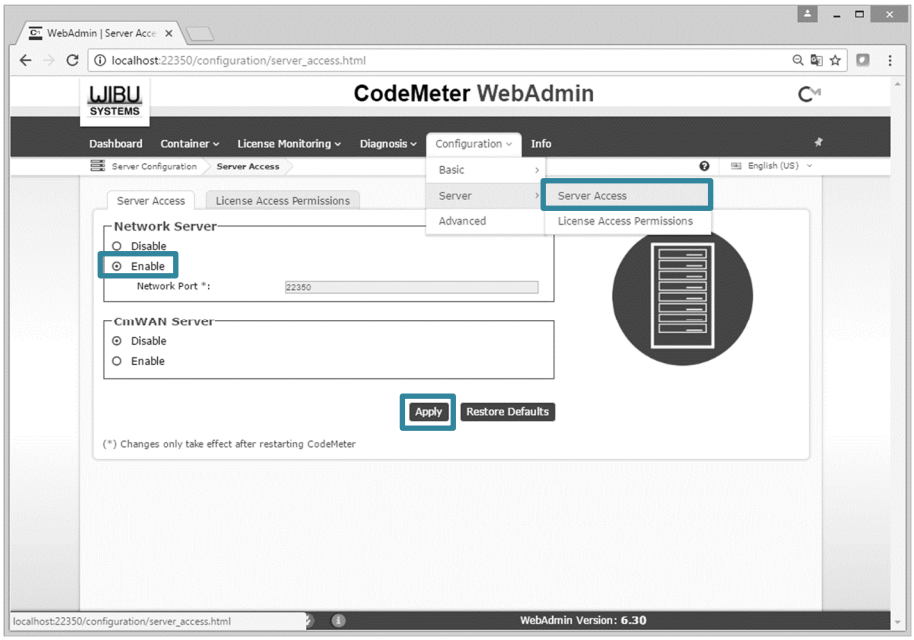
- Install CodeMeter Control Centre.
- Plug in the license dongle(s) directly into the computer. Don't use an USB-hub.
  The license dongle must remain in the computer as long as you want to use the BuildSoft software.

Read on buildsoftsupport.com how to check which licenses are on your dongle and if they are still valid.

- Start CodeMeter Control Centre.
  → *All Programs* → *CodeMeter* → *CodeMeter Control Centre*
- Select the license dongle and click *WebAdmin*.

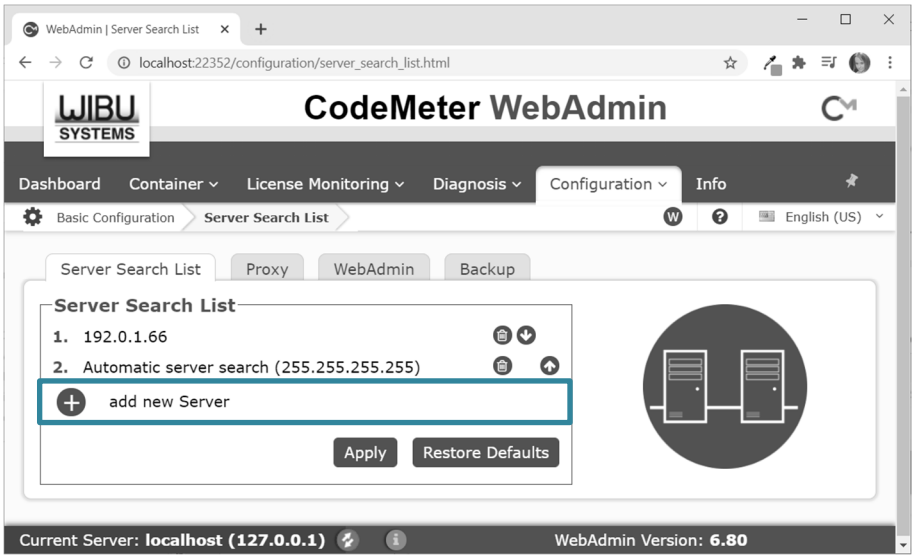


- Go to *Configuration* → *Server* → *Server Access*.
  Check the option *Enable* with *Network Server*. Click *Apply*.
  This shares the licenses over the network.
  Repeat this for every other dongle you have.

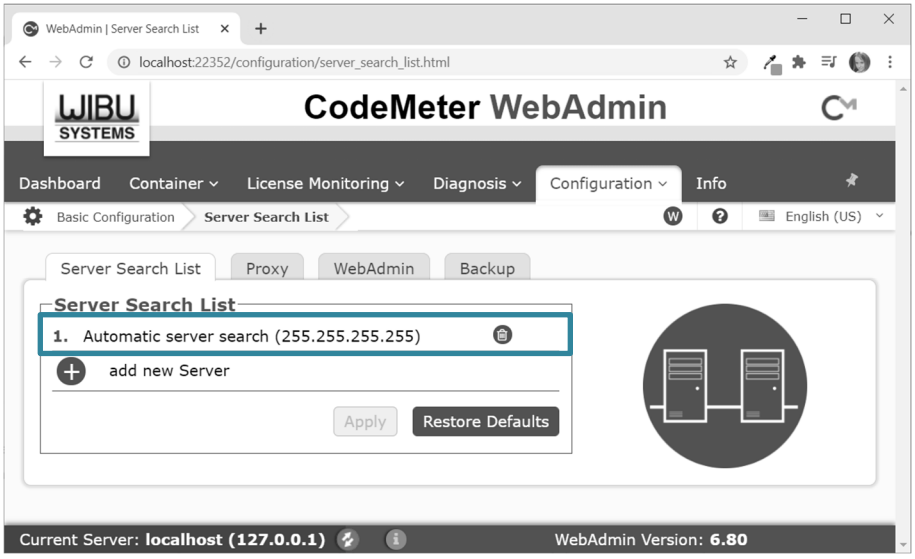


If the licenses are not automatically picked up by the client with the above method, you could try one of the following solutions.

1. Point the client to the server (required when using a VPN connection)
   - Open Codemeter Control Center on the client machine
   - Go to *Webadmin > Configuration > Basic > Server Search List*.
   - Enter the IP address of the server machine without slashes, so for example: 192.0.1.66.

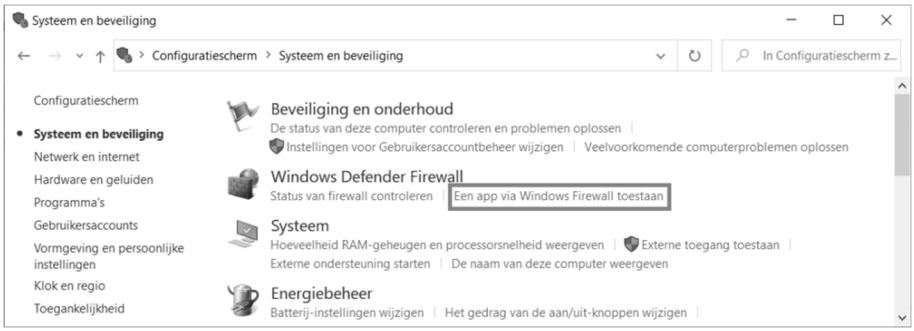


2. The Server Search List will also contain the line *Automatic server search (255.255.255.255)*.

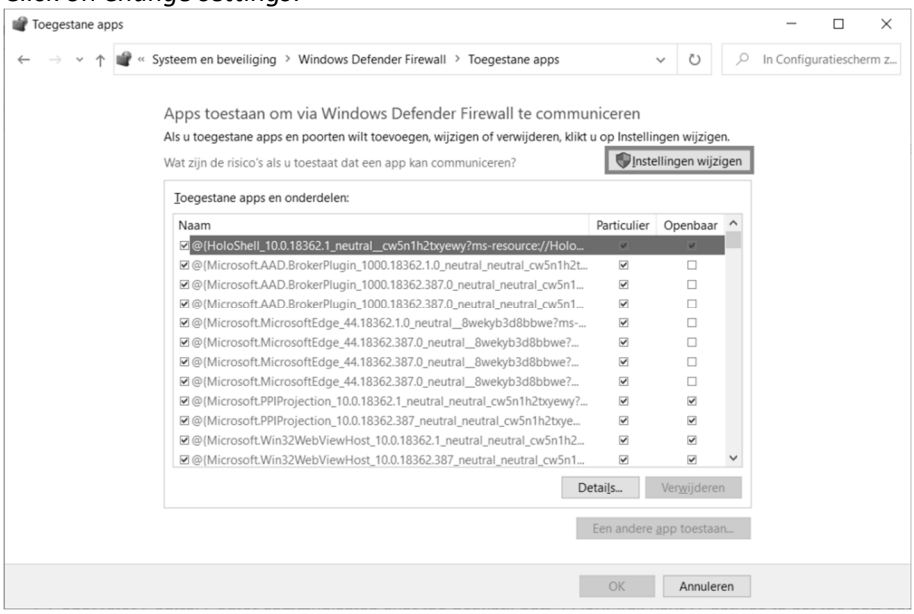


   If Diamonds/ PowerConnect/ BIM Expert start, but the start-up takes a very long time (> 60s), remove that line from the Server Search List. Confirm by clicking *Apply*.
3. Add CodeMeter Control Center as a safe program to the Windows Firewall.

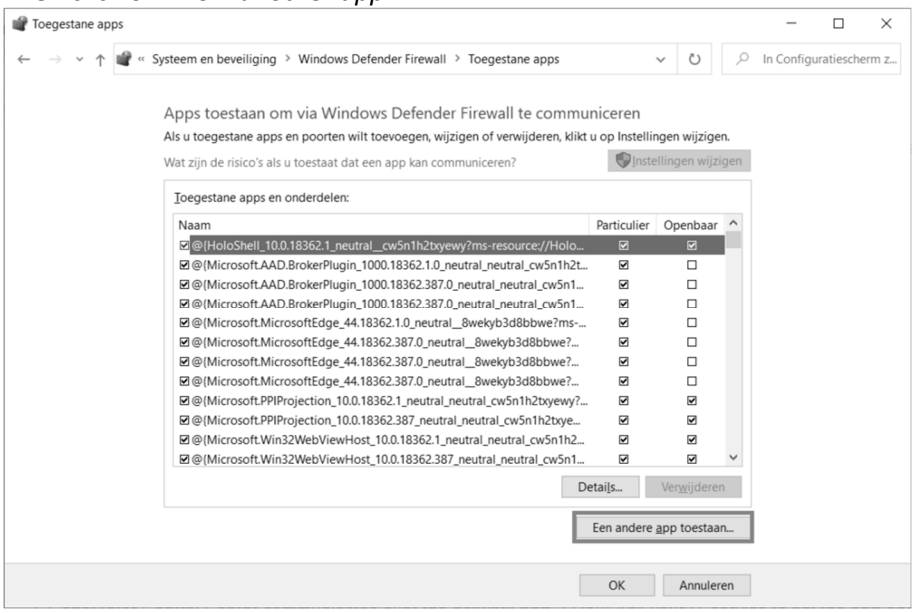
- Go to *> Control Panel > System and Security*. Select *Allow a program through Windows Firewall***.**



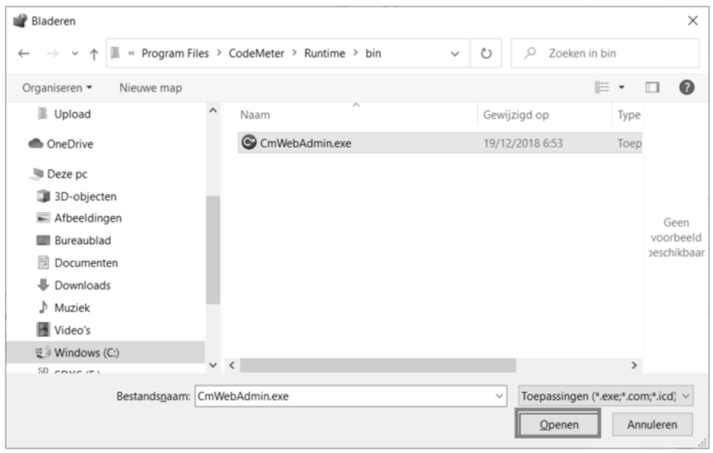
- Click on *Change settings*.



- Then click on *Allow another app*.



- Click on *Browse…*. Navigate to *C:\Program Files\CodeMeter\Runtime\bin* and select *CmWebAdmin.exe***.** Click on *Open***.**



And then on *Add*.

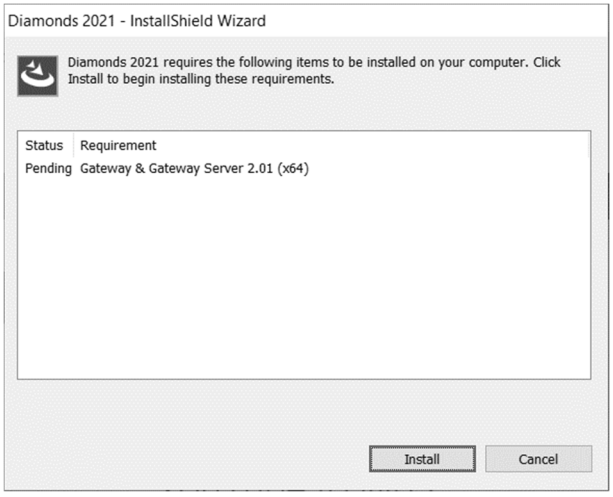
- Repeat these steps for
  - *Codemeter.exe* in the path *C:\ProgramFiles (x86)\CodeMeter\Runtime\bin*
  - *CodemeterCC.exe* in the path *C:\Program Files* **(x86)***CodeMeter\Runtime\bin*.

4. CodeMeter Control Center communicates over the network port 22350. Ask your IT-service to set the port open in the Firewall if the above didn't help.

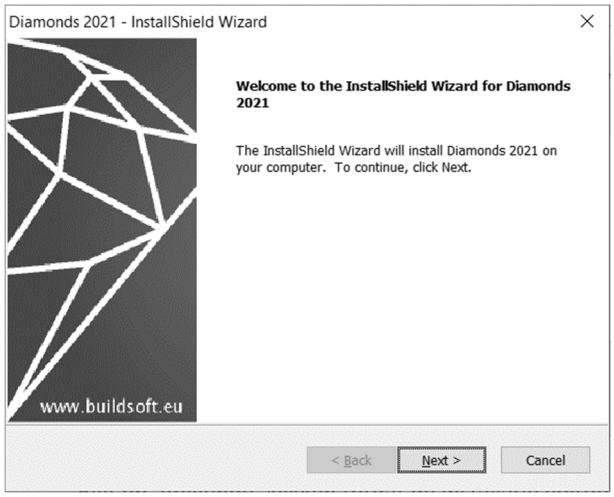
3.2. Installation of BuildSoft software

3.2.1. Diamonds, PowerConnect, BIM Expert

- Double click the *.exe to start the installation.
- If CodeMeter Control Center, Gateway or .NET framework is not installed, their installation will be started automatically. Keep clicking *Next* until the installation is completed.



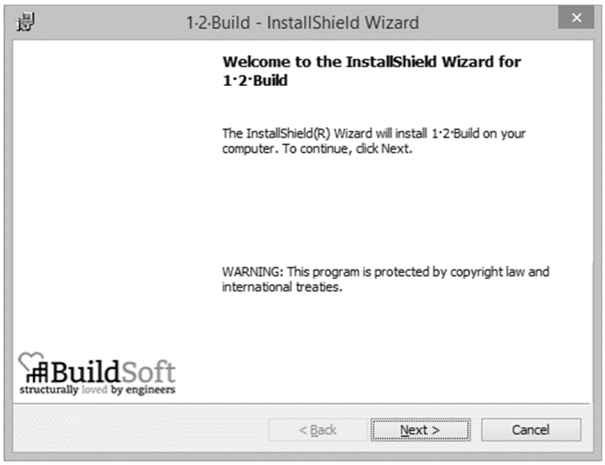
- After that, the installation of Diamonds/ PowerConnect/ BIM Expert will continue. Keep clicking *Next* until the installation is completed.



- Start Diamonds/PowerConnect or BIM Expert. The first time you start Diamonds / PowerConnect the databases will be loaded. This may take a while. The next start up will go faster.

3.2.2. ConCrete, 12-Build

- Double click the *.exe to start the installation.
- Keep clicking *Next* until the installation is completed.



- Restart the computer.