

May 23, 2006

Release Notes  
WoodWorks Design Office  
Version 2002 Service Release 3b

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DESIGN OFFICE VERSION 2002 Service Release 3b

This version of Design Office 2002 contains the new versions of WoodWorks Sizer 5.41 and Connections 2002b. WoodWorks Shearwalls 2002a, and Database Editor 2002a are unchanged.

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OTHER READ ME FILES

Once installed, you will find the readme.txt files for the following components of Design Office in that component's subfolder of the WoodWorks Design Office 2002 start menu folder.

- WoodWorks Sizer
- WoodWorks Connections

## WoodWorks Shearwalls CSA O86-01 Online

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### CD CONTENTS

#### Files:

- readme.txt - This file
  - autorun.inf - To run setup upon loading CD in player
  - setup.exe - To install the software
  - wwlogo.ico - The CD icon
- The rest of the files are install data files.

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### INSTALLATION

1. Running the CD - If the Autorun feature is enabled on your PC then the install program will start automatically. Otherwise, you will have to locate setup.exe on the CD and double-click it.
2. Setup - There is one setup program for Design Office, however you can use it to install the applications and utilities separately.
3. Install location - During installation it is highly recommended that the default install directory be used. It is permissible to select any disk drive.

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### SYSTEM REQUIREMENTS

1. WoodWorks Design Office can be installed on Windows 95, 98, ME, NT 3.5, NT 4.0, XP, or 2000.
2. WoodWorks Design Office cannot be installed on Windows 3.1x.
3. Recommended - Pentium 166MHz with 64MB RAM, 17" or larger monitor set at 1024x768 or larger resolution  
Minimum - 486-33 PC with 16MB RAM, 15" monitor set at 800x600 resolution. Does not support 640x480 resolution (VGA).

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### NETWORK INSTALLATIONS

For network installations, an additional software licence must be purchased for each client PC that will run the software.

If any WoodWorks program is to be run from a server then the network administrator must do the following after installation:

1. Find the shrwalls.ini, connect.ini, and sizer.ini files in the SERVER's program folders
2. Copy the INI files to the Windows directory of the server.
3. Copy the INI files to the Windows directory of each client PC.
4. Now modify the INI files in the server's directories by removing the remark symbols(;) from these lines at the top:

```
[Network]
INI_Location=Windows
```

These changes will cause the client PCs to look for the INI in their local Windows directory instead of on the server. This will enable client PCs to save their individual preferences.

- 5 Since the registration keycode is required to activate the software the first time the program is run on each client PC, we recommend that you run the software on each client machine, and enter the keycode supplied with the software.

NOTE: The database editor (DbEdit) will not work on the client PCs. Any changes to the databases must be made on the server PC.

NOTE: The administrator will have to create shortcuts for the client PCs that point to the networked software. Additionally, for Connections

1. Copy the file Connect.reg, from the server's installation directory, to any location in the client PC.
2. Modify the connect.reg file on each client PC to indicate where the installation directory is on the server, as described in comments in the connect.reg file. The modified path should include the server's network share path, rather than the actual directory on the server. For example if the server installation is C:\ProgramFiles\WoodWorks\USA\Connections and the "USA" folder is shared as "WoodWorks Design Office", the path should be

```
...InProcServer32= \\MYSERVER\WoodWorks Design Office\Connections\ICM\xxxxxx.dll
```

3. Exit the connect.reg and double click on it to apply the changes to the Windows registry on the client PC.

NOTE: The server PC's Design Office installation folder must allow full read, write, and modify privileges for all network users.

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## KEYCODE SECURITY

Design Office 2002 is delivered with a key code with the packaging. The first time you run a WoodWorks program you will be asked to enter the key code. Once you activate the software all other Design Office programs will be activated. Key codes are to be used only by purchasers of the software. Those wishing to simply evaluate the program may type "DEMO" instead of a key code. If you experience difficulty with your key code, contact WoodWorks Support Sales, preferably via e-mail at sales@woodworks-software.com, for another key code.

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## LICENSING

You may refer to your license agreement for WoodWorks Design Office by clicking the License Agreement icon in the WoodWorks group of the Start Menu, or by opening the file "license.txt" directly from your CD. For each license you have purchased, you may install Design Office on a single computer and also a second portable computer used by the primary user of the software. If you have purchased a 10-user license, you will receive only 5 CDs and manuals, however these are to be used to install the software on as many as 10 computers.

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## MATERIAL DATABASES

The setup process has created a DATABASE folder in a directory that is adjacent to the applications' folder. In this way, all programs share databases from a common structure and any changes you make to a material database with the Database Editor will then be reflected in all WoodWorks applications.

The install structure is as follows

- ...\WOODWORK\SIZER
- ...\WOODWORK\SHEARWALLS
- ...\WOODWORK\CONNECTIONS
- ...\WOODWORK\DATABASE

New databases can be created from scratch by the user and subsequently edited with WoodWorks Database Editor. The material properties for databases supplied with Design Office cannot be changed, however you can activate and deactivate materials, species, grades, and sections.

**IMPORTANT** - The WoodWorks database format has changed for Version 2002. Unfortunately, any material customizations you have made in previous versions will have to be redone for version 2002.

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## HELP DOCUMENTATION

In addition to the printed manual, the WoodWorks Design Office User Guide in Adobe Acrobat 4.0 format can be installed. It is accessed either by an icon in the WoodWorks Design Office Start Menu folder or through the Help menu in each WoodWorks program.

**IMPORTANT** - The user manual has been updated to explain the new features in Version 2002. The most recent features that differentiate the Canadian Version from the USA Design Office 2002 are available only in the on-line edition accessed from the Help menu.

Each WoodWorks program also has Online Help primarily to explain engineering methodology and assumptions. It is accessed either by an icon in the program's Start Menu subfolder, or through the Help menu of the program.

**IMPORTANT** - The on-line help has been updated to explain the new features in Version 2002.

Each program has a "Readme" file explaining the particulars of the program installation and operation, and including a history of changes made in previous service releases. These are accessed in the program's Start Menu subfolder.

**IMPORTANT** - Each readme file has been updated to describe the new features in Version 2002.

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## TECHNICAL SUPPORT

If you have installation or performance problems please contact WoodWorks Support via one of the options listed below.

For questions about features and functions please consult the on-line HELP which provides a Keyword Search feature.

The WoodWorks Web Site contains additional information which includes product news, frequently asked questions, maintenance releases and updates for registered software.

Voice: 1-800-844-1275, 1-519-885-3770

Fax: 1-519-885-1407

E-mail: [support@woodworks-software.com](mailto:support@woodworks-software.com)

Web: <http://www.woodworks-software.com>

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## VERSION HISTORY

Refer to the Readme files for each program for a more detailed account of the new features and bug fixes that are mentioned here.

-----DESIGN OFFICE 2002 -----

May 23, 2006 - Design Office 2002 Canadian Version Service Release 3b

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### Connections

#### A. Concrete-to-Wood Connections

1. Design Capacity using Imperial Units
2. Force Unit Labels
3. Force Label
4. Metric to Imperial Conversion
5. Concrete Design Note
6. Overlap Distance in Output
7. Load and Capacity Output Precision

-----DESIGN OFFICE 2002 -----

May 4, 2006 - Design Office 2002 Canadian Version Service Release 3a

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### Sizer

#### 1. Load Table Units

## 2. Pattern Loads for Single Spans

-----DESIGN OFFICE 2002 -----

Apr 18, 2006 - Design Office 2002 Canadian Version Service Release 3

### Sizer

#### A. Engineering Design

1. Slenderness Factor  $K_c$  for Column Load Face  $d$
2. Weak-axis glulam design

#### B. Program Operation

1. Notches

-----DESIGN OFFICE 2002 -----

Feb 14, 2006 - Design Office 2002 Canadian Version Service Release 2

This Service Release consisted of a review to all known problems and user issues with Sizer 2002a.

The Following is a list of the bug fixes, described more fully in the readme file for the individual application.

### Sizer

#### A. Engineering Design

1. Column Size Factor  $K_{zc}$  and Slenderness Factor  $K_c$
2. Bearing Length Factor  $K_B$  Restrictions
3. Minimum Bearing Length
4. Absolute Minimum Bearing Length Reporting
5. Bearing Resistance for Sloped Members
6.  $M_f / M_r$  Ratio for  $K_B$  Default Value
7.  $M_f / M_r$  Ratio for  $K_B$  Factor Persistence

#### B. Analysis of Loads

1. Self-weight in Load Combinations

#### C. Member Graphics

1. Self-weight in Analysis Report and Analysis Diagram Reactions
2. Units in Analysis Load Envelope

#### D. Program operation

1. Load Input in Ft-In-16ths
2. Analysis Envelope with Area Loads

### 3. Span Input in Sixteenths of Inch Label

#### E. Data Input

1. Deflection Limit Update Between I-Joists and MSR
2. Self-weight Default
3. "Depth To" Precision

#### F. Text Output

1. Reporting of Load Factors
2. Sign of Deflection Values Displayed
3. Self-weight in Output
4. Load Combination Reporting in the Diagram View
5. Notch Description in Design Results
6. Negative Kb value

#### Connections

##### 1. Lapped Shear Materials

Added plywood and OSB joist materials, previously they were missing from the Design Office 2002 installation.

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Version 5.2 - March 2, 2005  
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1. Dead Load Component of Deflection Diagram
2. Dead Deflection Reporting
3. Load Factor Kd on Eccentric Columns and Cantilever Patterns
4. Column Treatment Dropdown List
5. SCL Column Load Face
6. Angle of Beam in Printout
7. Printing Long Analysis Reports
8. Kzc Factor Title for Weak-axis Glulam Columns
9. Span Input in Sixteenths of Inch Label

Oct 29, 2004 - Design Office 2002 Canadian Version Service Release 1  
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This Service Release consisted of a review of all known problems and user issues with the applications and a resolution to any of these that were significant and/or simple to resolve.

The following is a list of these bug fixes, described more fully in the readme file for the individual application.

## 2002a Shearwalls

### A. Building Model and Program Operation

1. Unexpected Shut Down
2. Update of Joining Roof Configuration
3. Removal of Indentations
4. Wall Segmentation Shutdown
5. Interior Walls Protude outside Building
6. Merging Walls - Effect on Roof Joining
7. Roof Joining of Abutting Blocks
8. Wall Creation for Uneven No of Storeys
9. Roof Joining Error for Unusual Configuration
10. Three-Block Upper Level Wall Creation
11. Upward Extension of Three Block Structure
12. Roofs on Three Block Multilevel Buildings
13. Joined Roof Panel Slopes
14. Uneven Number of Stories
15. Segmentation of Middle Block Walls
16. Roof Generation on Diagonally Abutting Blocks.
17. Wall Height Warning Message

### B. Engineering Design

1. Seismic Design with Unknown Stud Spacing
2. Negative Critical Design Shear Forces
3. Duplicate Wall Groups, Exterior Sheathing Only
4. Duplicate Wall Groups, Different Hold-down Configuration
5. Incomplete Design Material Specification
6. Wall Group Number
7. Extra Wall Group in Materials Table

### C. Seismic Load Generation

1. Seismic Load Generation on Complicated Structures
2. Reversal of Fundamental Period T
3. Building Mass of Line of Non-shearwalls
4. Building Mass of Intersecting Roof Blocks
5. Zero Point Building Masses in Plan View
6. Upper Level Wall Building Masses
7. Metric vs Imperial Roof Masses
8. Zero Point Building Masses in Plan View

### D. Wind Load Generation

1. Topographic Factor

## 2. Wall Load Generation after Roof Move.

### E. Load Distribution

1. Rigid Distribution to One Shearline in each Direction
2. Display of Manually-entered Wall Rigidities
3. Vertical Distribution of Load Combination Factor

### F. Data Input

1. Unknown Edge Spacing
2. Blank Input Fields for OSB Materials
3. Default Tributary Width
4. Zero Ceiling Depth
5. Save as Default Operation
6. Effect of Default Setting
7. Fit to Print on One Page
8. Note when Resetting View Settings
9. View Area and Snap Increment Menu Item
10. Overhang Group Box Covered

### G. Text Output

1. Truncated Log File
2. Saving Log File
3. Roof Masses in Design Results
4. Hill Shape in Design Results
5. Above and Below Escarpment Crest Reversal
6. Units for Hold Down and Dragstrut Forces
7. Direction Heading in Shear Results Table

### H. Graphical Output

1. Elevation View Layout
2. Design Shear on Non-Shearwalls in Elevation View
3. Shearline Forces on a Non-Shearwall in Elevation View
4. Update of Forces in Elevation View
5. Hold-down Symbols in Plan View

## 2002a Sizer

### A. PROGRAM OPERATION

1. Lateral Support Behavior
2. Project File with Long Path Name
3. Shut Down from Column to Beam Mode
4. New Concept File after Column Design Run
5. Sloped Lateral Support Crash

### B. MATERIAL AND DATABASES

1. I-Joist Materials

## C. ENGINEERING DESIGN

1. Lateral Stability Factor
2. Preservative Treatment Factor for Built-up Members
3. When Slenderness Ratio Exceeds 50
4. Lateral Support Factors in Column Project Files
5. Shear at distance  $d$  for oblique angles
6. Column Shear at Distance  $d$
7. Ignore Cantilever Deflection Failure

## D. ANALYSIS OF LOADS

1. Reactions due to Point Loads
2. Rare Occurrence of Incorrect Shear Results
3. Reactions from Point Loads at Supports
4. Self-weight of User-defined I-Joists

## E. DATA INPUT

1. Fire Retardant
2. Notch Length Label
3. Load Magnitude Refresh
4. Repeated Stud Spacing
5. Font Drop Down Length
6. Input Labels
7. Focus remains on Add span button.
8. Load Magnitude Refresh
9. Service Conditions in Column Mode
10. Settings / Format
11. Design Settings Page
12. Load Face for Columns
13. Concentrated Load Units Conversion

## F. TEXT OUTPUT

1. Design Code Reference in Design Report
2. "SECTION vs Design Code" Title Format in Output
3. Bearing Length Precision
4. Colons in Design Check Headings
5. Bearing Length output
6. Design Failure Criteria
7. Loads Units in Heading
8. Material Description Format in Output
9. Member Description Alignment in Output
10. Analysis Results Heading
11. Member Description Format in Output
12. Concentrated Live Load Warning

13. Logo Missing after Windows Update
14. Material Description Format in Output
15. Reporting of EIy for Built-up Members
16. Maximum Load Name Length
17. Tributary Width Misalignment
18. Bearing Length Alignment in Output
19. Seconds in Time Stamp
20. EIy for Oblique Angle

## G. MEMBER GRAPHICS

1. Drawing of Supports
2. Notches at Cantilever End
3. Point Loads at Supports in the Load Envelope
4. Notch Length

Design Office 2002a

## A. PROGRAM OPERATION

1. Help About Dialog Information

The technical support contact information in the "Help About" dialog, in all Design Office applications, used to provide sales support information instead.

## B. DOCUMENTATION

1. Network Installation Instructions in Read Me Files

The network installation instructions in the ReadMe files of Shearwall, Sizer and Connections were updated. This was necessary because newer operating systems use more stringent default access permissions.

Nov 18, 2002 - Design Office 2002 Canadian Version

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2002 Shearwalls:

### A. Installation Features

1. New Keycode system
2. New Installation

### B. Building Model Features

1. Multi-story design
2. Levels information
3. Multiple blocks

#### 4. Roof module

### C. Load Features

1. New Load Types and Profiles
2. Site information
3. Wind Load Generator
4. Low Rise Load Cases
5. Seismic Load Generator
6. Building Masses
7. Dead loads and Uplift loads
8. Load Accumulation

### D. Design Forces

1. Automatic Load Distribution
2. Rigid Diaphragm Method
3. Flexible Diaphragm Method
4. Force Distribution Along Shearline
5. Holddown and Dragstrut Forces
6. Vertical Force Distribution and Overturning Forces

### D. Shearwall Design

1. Seismic Design
2. Leeward/Windward Wind Design
3. C&C Design
4. New CSA O86-01 Provisions
5. Jhd Factor
6. Hold-down Configuration
7. Iterative Hold-down Design
8. Iterative Design for Dissimilar Materials.

### E. Materials

1. Material List
2. Gypsum Wallboard
3. Construction Sheathing OSB
4. OSB Grades and Plywood No. Of Plies
5. New Sheathing Thicknesses
6. Nail Sizes
7. Nail Factor Jn
8. Framing Species and Species Factor Jsp
9. Unblocked factor Jub
10. Dissimilar Materials

### F. Design Results Reporting

1. New Sections
2. Results Formatting
3. Load Lists
4. Design Notes
5. Results Filtering

## 6. Log file

### G User interface features

1. Elevation View
2. Show menus
3. New menus
4. Wall material input
5. Graphical input
6. Zoom Feature
7. Load List

### H. Program Settings

1. Default Settings
2. Design Settings
3. Options Settings
4. Loads and Forces

### I. Bug Fixes

1. Wall Operations
2. Scrolling
3. Memory Leak

2002 Sizer:

## A. PROGRAM OPERATION

1. New Keycode system
2. New limits for numbers of objects in program

## B. USER INTERFACE CHANGES

1. Enhanced Output
2. Beam and Column View Layout
3. Beam and Column Diagrams
4. Load Diagrams in Beam and Column Mode
5. Analysis Diagrams for Beams and Columns
6. Axial Wall Loads in Column Mode
7. Points of Interest View
8. Beam and column mode toolbar
9. Beam and column mode settings
10. Beam and Column Details
11. Slope as Rise/Run
12. Material Data input
13. Delete All Button
14. Sizer Version
15. Custom Design Notes
16. Bearing results in enhanced output
17. Self-weight

## 18. Beam view input fields

### C. DESIGN ENGINE CHANGES

1. Combined Axial and bending
2. Concentrated Load Check
3. CSA O86-01 Changes
4. Deflection Analysis and Reporting
5. Dead and Wind uplift load combination
6. Length of bearing factor KB
7. Lateral stability factor KL
9. Load duration factors KD
10. Bug fixes

### D. DATABASES

1. MEL databases added
2. SCL databases
3. MSR databases
4. Self-weight

#### 2002 Connections:

1. Lapped Splice Bolted Connections
2. Wood-to-Wood Bolted Design
3. Steel-to-Wood Lapped Splice Connections
4. Three-member Connections
5. Ledge Connection
6. Wood-to-Concrete Design
7. Greater Range of Angled Connections
8. CSA O86-01 Design Standard
9. Fire Retardant Factor
10. Jc Factor
11. Steel Strengths
12. Lumber Densities

#### 2002 Database Editor:

1. Size factor relabelled in section properties
2. I-Joists system factor KHB
3. Glulam maximum lamination width

-----DESIGN OFFICE 1999 RELEASES-----

## Dec 1. 1998 - Design Office 1999 Canadian Version

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This was the first version of the suite of WoodWorks programs for the Canadian market. Previously the programs were distributed separately.

### 1999 Sizer

1. CSA O86.1 has been added to the Help menu.
2. Bug fixes

### 1999 Connections (changes implemented in version 97)

1. Nailed connections
2. CSA O86.1 added to the Help menu.

### 1999 Shearwalls

### Initial Canadian release

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