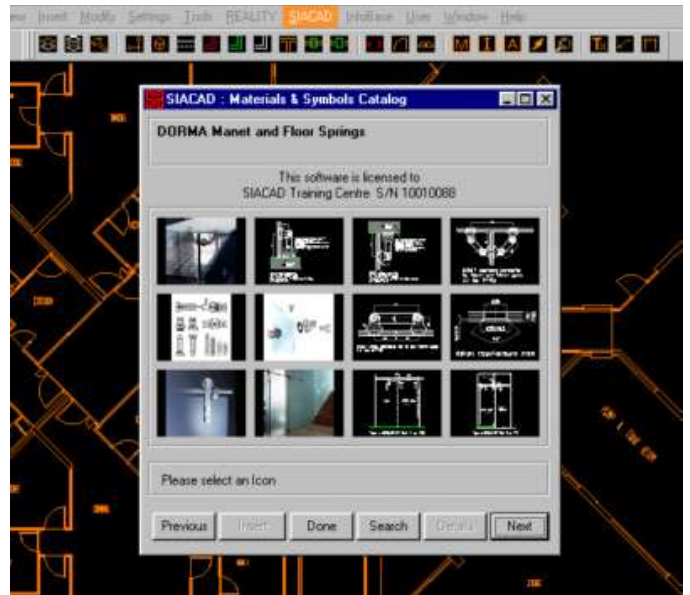# SIACAD

You asked for IT!

Just when you thought you have paid up for your CAD software, an ultimatum arrives. Update by a certain date or cease to receive software support forever. Chances are you'll miss the deadline as the upgrade price is just too high. Of course, they tell you that you ought to upgrade as the new upgrade has hundreds of new features. None of which are vaguely useful to you. Worst of all, those simple improvements that you needed a few versions back never materialised. Software Support?

Introducing **SIACAD** , an add-on package that extends the life of your CAD engine. It works with most of the standard CAD engines, across most of the software versions. It gives you a standard interface so that whatever you have learnt in one CAD engine can be reused in another. It comes with a powerful layer management system which allows you to organise your drawings effectively. Our "catalog viewer" enables you to easily manage, locate and use symbol / details libraries, text specifications and other related information directly in your CAD software. And it works seamlessly across your LAN infrastructure.

As an **SIACAD** user, you have privileged direct access to our InfoBase Content Library. This is comprehensive and ever-growing library of CAD drawings, text specifications and electronic brochures of commonly used building products- useful information on products which you have asked for.

SIACAD also includes a full range of CAD utilities which help you increase your productivity. It makes you wonder why such utilities aren't included in the CAD engine itself. Well, like all other aspects of **SIACAD**, we will continue to develop such utilities and deliver them to you.

Because you asked for it!

Standards

The first step to achieving real productivity from your CAD system is to have a comprehensive Layer, Color, Linetype and Symbol Standard. **SIACAD** was first developed to manage the Singapore CP83 Standards. In fact, it's the most efficient solution to CP83. However, it's not limited to CP83. It can be easily customised to suit any other standard. **SIACAD** includes a complete set of functions for you to create and manage such standards.

Build Layer Name: You can easily create any layer name with the correct attributes such as colors and linetype. Currently, it handles the CP83 standard but it can be easily modified to handle other standards.

Layer Profile: Create as many "layer profiles" as required and apply them to your existing drawings. This will turn on only those layers required so that you can easily work with your drawings. For example, you can easily create profiles for ceiling layouts, structural plans etc. There is no need to painstakingly turn on or off individual layers.

Sort Layer Names: Convert existing drawings so that they conform to your preferred layer, color and linetype standard. This works even for entities within blocks and you can apply the same "dictionary" to other drawings. Indispensable when you need to work with drawings done by others who do not conform to any such standards.

Additions & Alterations: Create your drawing using standard layers. Then apply our A&A tool to selected layers and choose whether you want them to be in the "demolished", "existing" or "proposed" layers. This automatically creates the correct layers in the correct color and linetype. It even allows you to revert back to your original layers.

CP83 Approved Symbols: The Singapore CP83 standards comes with a complete set of 650+ approved Standard Symbols for Architectural, Electrical, Mechanical and Landscape. Use our unique Catalog Viewer to search, select and insert these symbols into your drawing in the right layer and color.

Manufacturers' Details and Specifications: Download our **SIACAD InfoBase** content library and make use of thousands of detail drawings, specifications and electronic brochures of building products. Use our search engine to locate your preferred product and insert them into the drawing..all in the right layer, color and scale.

Automation

Doing CAD drawings can be a real drag. Basically, you use lines, arcs, circles etc. to build up your drawing. In **SIACAD**, repetitive tasks like these are automated. This enables you to achieve productivity gains not possible from your plain CAD engine.

Grid Lines: Instead of using a series of lines, circles, text and dimensions entities, you use our automatic grid line generator. Intelligence is built into this routine so that you won't make mistakes like having grid lines with confusing annotations such as "O" and "I"

Columns: Specify the size required and automatically insert Rectangular, Circular, Elliptical, "T", "I", "H", "C" and "L" shaped columns into your drawing.
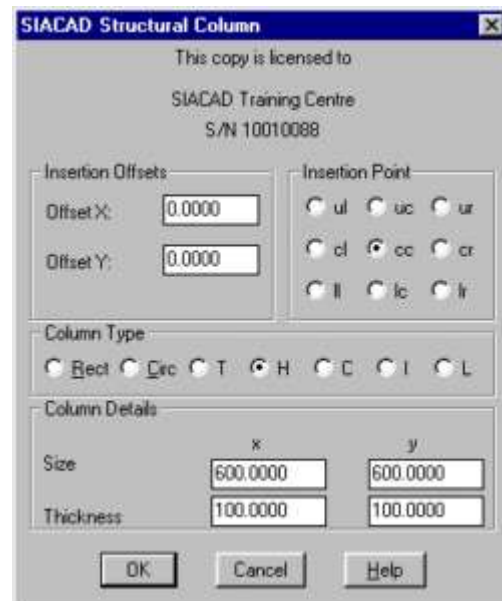
Beams: Draw beams in "edge", "hidden" or "exposed" view. There is no need to manually draw lines, offset / trim them and then change the linestyle.

Walls: Draw all kinds of walls such as structural, parapet, partition etc. with your preferred wall thickness and offset.

Openings: Break openings in walls based on an offset distance from the edge of the wall or have the opening centralised.

SIACAD Structural Column dialog box:
This copy is licensed to
SIACAD Training Centre
S/N 10010088

Insertion Offsets
Offset X: 0.0000
Offset Y: 0.0000

Insertion Point: cc selected (ul, uc, ur, cl, cc, cr, ll, lc, lr)

Column Type: H selected (Rect, Circ, T, H, C, I, L)

Column Details
	x	y
Size	600.0000	600.0000
Thickness	100.0000	100.0000

OK   Cancel   Help

Doors: Insert single/double swing, single/double leaf doors or sliding doors into your walls. This command also breaks openings in walls and clean up the edges.

Windows: Insert standard windows up to 8 panels or sliding windows into your walls. This command also breaks openings in walls and clean up the edges.
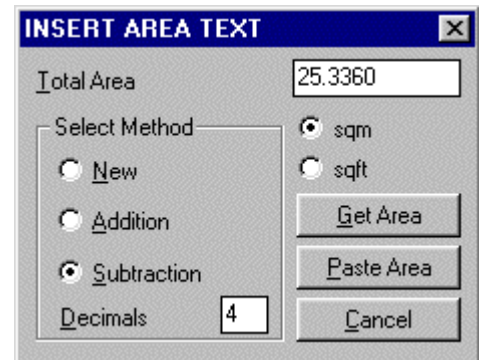
Tools

SIACAD users know what they want. Beyond just Standards and Automation, they have requested for tools to help them with their day to day CAD drafting. Some of these tools are so useful that it makes you wonder why they don't come standard with most CAD systems.

Area Text: Pick any enclosed entity such as polylines, circles etc. and add or subtract their areas automatically. Then paste the area into the drawing as a text entity.

INSERT AREA TEXT

Total Area — 25.3360

Select Method
- New
- Addition
- Subtraction

Decimals — 4

- sqm
- sqft

Get Area
Paste Area
Cancel

Text Case: Change existing text into uppercase, lowercase or mixed case.

Align Text: Align selected text to a point using left, center or right justification.

Replace Text: Replace phrases or words within text lines. Replace all text lines in the drawing or select only those you require.

Text Bubble: Draw annotation text inside bubbles such as circle, elevation, section, etc. Create or edit our predefined bubbles to suit your needs.

Running Numbers: Set a start number and an increment. Paste the text of these running numbers into your drawing. Excellent for car-parking lots, staircase runs etc.

Get Object: Pick on an existing entity or symbol. This then sets the layer, color and linetype to that of the selected objects. Next it fires up the command that is used to create the entity or object.

Search Catalog: Search for any symbol or detail drawing from the full range of Approved Symbols, Manufacturers' InfoBase and In-house details and specifications. Use Boolean AND to narrow down your search parameters or search by price range. Display the preview icons of the selection and insert the preferred symbol or detail into your drawing.

User Customisation

SIACAD is designed as an open system. You can easily customise it to suit your requirements. It is also very easy for system managers to create and maintain their own layer, color and symbol standards. These standards can be hosted on a server and shared by all workstations.

Get Layer Standards: Define the layer standards by editing our standard layer definitions. Select and use any standard you require.

Catalog Manager: Create your own symbol / detail library using our powerful Catalog Manager. This creates preview icons and enables you to define the layers for inserting the symbols or details.

In-house Catalog: Organise all your existing in-house detail library using our In-house Catalog system. There's no "programming" involved. Just organise your detail drawings into folders and drop them into the Catalog Manager. There is also no limit to the number of in-house catalogs you can define.

Network Manager: Most of our users store their Manufacturers' InfoBase, Approved Symbol Catalogs and In-house Catalogs on a server. This can be any folder that's shared and available to all the CAD workstations. Each workstation then contains only links to the catalogs instead of the actual drawings or specifications. This enables you to easily maintain your catalog and library as you only need to update on the server and all the workstations have access to the same information.

System Requirements

The system requirement for running **SIACAD** is straightforward. If your CAD software is working fine, **SIACAD** will work on top of it.

CAD Platforms:
IntelliCAD
AutoCAD R13-2002
AutoCAD LT **
FastCAD 32
VectorWorks (PC/MAC) **
MicroStation V8 **

Computer System:
Microsoft Windows 95/98, Windows NT 4.0,
Windows 2000, Windows XP
128 MB of RAM for optimal Windows Performance
Minimum screen resolution: SVGA 800x600.
Windows compatible printer device.
Internet Explorer 5.0 or Netscape Navigator.
CD-ROM drive (for installation only)

New in Version 1.8

- Automatic GFA calculations
- Automatic Carparking calculations
- Carpark lot design / Layout
- CP83 Part III File-naming management
- Staircase designer
- Door designer
- Window designer

Pricing

List price S$600 – 50% off for SIA members
Educational / Student S$99.00

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Reinventing the Profession!   Main: 6225 3823   Support: 6324 2956   Fax: 6234 3762

**LT Version does not have LISP functionality. VectorWorks and Microstation versions do not have all the functionalities of the IntelliCAD or AutoCAD versions.