

LT Architect **V4**

Architectural design for AutoCAD LT

LT Architect enhances AutoCAD LT by providing additional functionality to automate much of the building design process. LT Architect boasts an impressive range of commands including intelligent creation and editing of Doors, Windows, Staircases, etc. and automatic creation of a 3D walkthrough model direct from your building plan.

Save Wall, Window and Door Styles

Intelligent functions for inserting and editing Windows and Doors

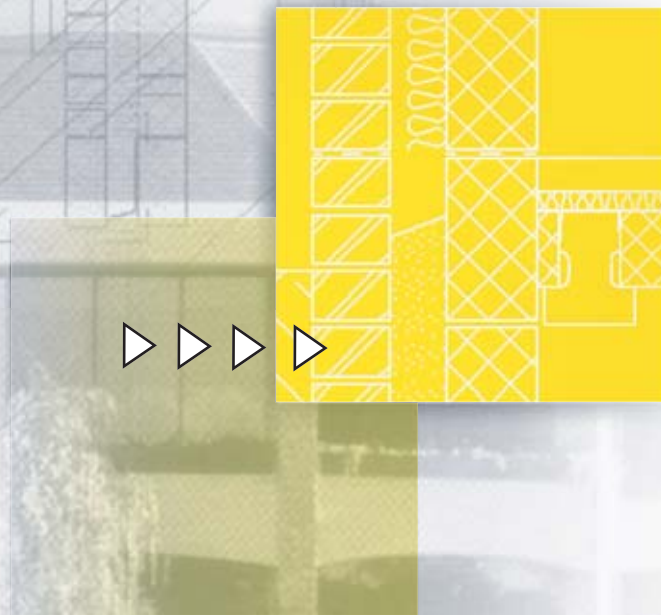
Comprehensive library of Architectural Symbols

Structural Steel Details

3D Walkthrough creation straight from 2D plan

Modular Building Sections

User-Defined Layering System



Transform your AutoCAD LT into an efficient Architectural Design System

LT Architect delivers a new AEC interface to AutoCAD LT, thereby simplifying the production of architectural design layouts. Most LT Architect commands are controlled by a single, uncluttered, intuitive dialog box, with clear images that reflect the selections and inputs you make. For example, the insertion of a Window couldn't be easier as the dialog box clearly displays the types and styles available, and allows you to choose from standard sizes or to enter your own. Wall, Window and Door styles can be saved for fast re-selection in other drawings, saving you time and ensuring repeatability and accuracy across all of your projects.

LT Architect offers a comprehensive library of parametric details to cater for every design requirement, including:- Doors, Windows, Staircases, Modular Building Sections, Structural Steelwork and more.

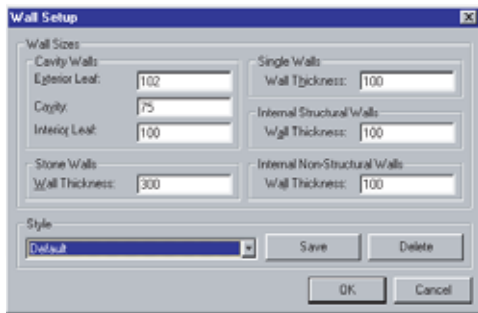
LT Architect enables you to create 3D walkthroughs straight from your 2D plans. A 3D file which can be viewed within an Internet browser is generated from the 2D layout, allowing you to walk through and fly around the building. The supporting 3D symbol library lets you add even greater detail to your walkthrough files.

RAPID DRAWING TOOLS TO EASE THE DESIGN PROCESS

LT Architect speeds up your design productivity with intelligent automation of previously time-consuming draughting tasks. It enables you to optimise design efficiency, quality and accuracy, new business proposals and return-on-investment (ROI).

The ability to archive Wall, Window and Door styles saves you time and ensures repeatability throughout a project. And it's really easy to do: just set the parameters you require in the Wall, Window or Door dialog box and enter the name of your new style in the relevant field. The style is then available for selection on other drawings.

The integration of LT Architect into your design environment is not a problem as it has a user-defined layering system, which by default is set to match BS1192-AEC5. CI/SfB and Generic layering systems are also included as standard.

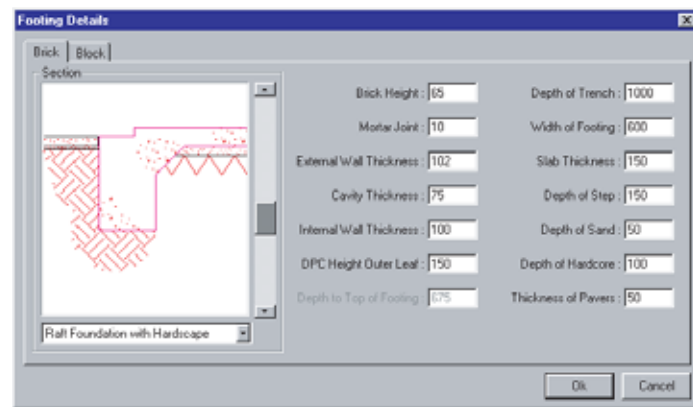


To draw walls is so easy with LT Architect. Create the style you need in the simple dialog box by picking from either external cavity, single, stone or internal wall types and entering the required dimensions. The wall drawing commands automatically pick up the settings from the selected style. In addition to the wall types Solid, Fully Glazed, Half Glazed and Door/Window Office Partitioning can be added to your layouts. All of the Partition types

are compatible with and can be viewed in the 3D Walkthrough facility.

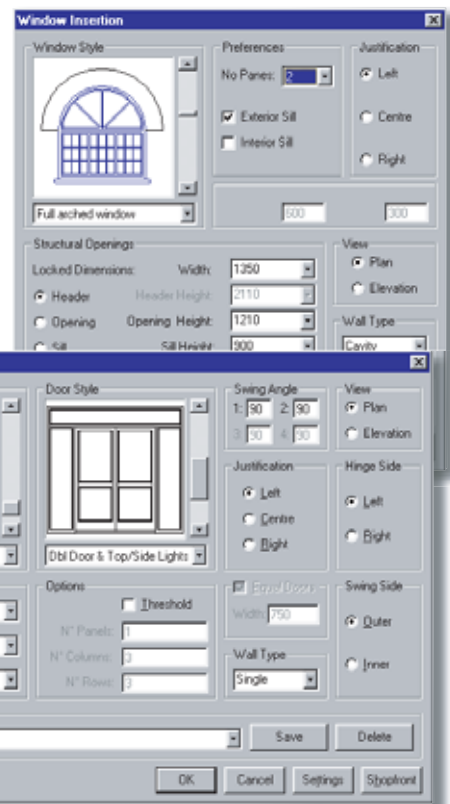
Doors and Windows are equally straightforward to create with LT Architect. Once again, any combination of settings can be saved as a style for future use. The Door dialog box allows you to select the elevation, sizes, style, type, jamb size/position and threshold options, whilst the Window dialog box allows you control of elevation, sizes, number of panes, jamb size/position and sill options. The flexibility of LT Architect's Doors and Windows means that almost any design can be produced. What is more, LT Architect boosts your productivity with automatic Wall breaks. An intuitive dialog box controls the break style for each Wall type. Then, when inserting a Door or Window, LT Architect inserts the structural opening into the Wall and applies the appropriate break style.

And it's never been easier to generate Building Sections. LT Architect has an extensive library of 2D construction details, so you can finish detailing your designs with minimal effort. The library contains parametric symbols for the Foundations, DPC, Floor Structure, Walls, Sills, Headers, Doors, Windows, Roof Trusses and Fascias. You can use these to build a single or



of Elevations and Sections, with the option to conform to Building Regulations.

LT Architect has hundreds of symbols including Structural Steel details, Plumbing, Heating, Furniture, Electrical and Kitchen fittings, to help you add further detail to your designs. The majority are not just blocks that have to be stretched and scaled to the correct size, but are intelligent parametric symbols. This means that you can define the key dimensions and the symbol is automatically and instantly drawn to the size you require. As many of the symbols in LT Architect are available in elevation as well as plan, they can be used to quickly add detail to your internal or external elevations.



multi-storey building section in stages or you may select from a choice of standard pre-assembled modules.

Basic roof plans can be created from a simple dialog box: specify the sizes and pitch then select the type - hipped or gable.

You have complete control of stairs with LT Architect. In plan you can define the style (straight, half or quarter turn, spiral), control the sizes and have a choice of winders, cut-lines and numbering entirely at your discretion. You also have access to a wide range

▶ LT Architect - Visualise your designs fast

Now you can create stunning 3D walkthrough models of your designs, straight from 2D plan drawings.

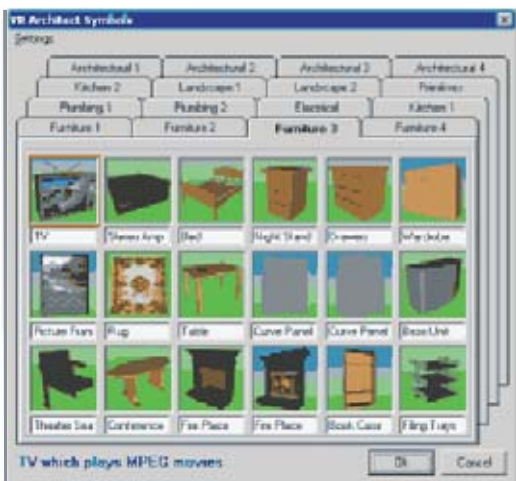
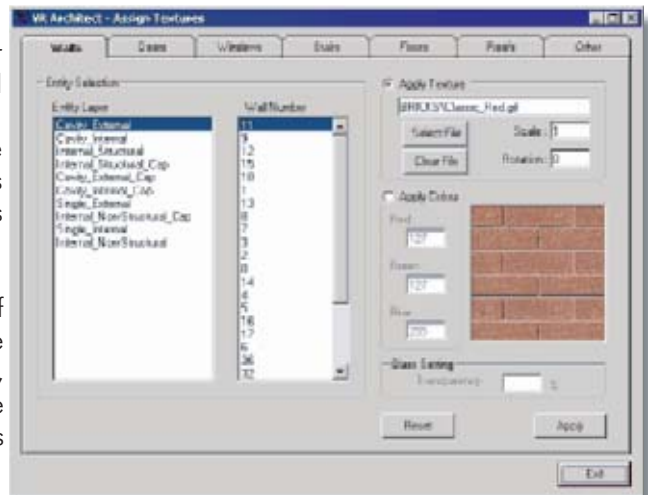


LT Architect creates a 3D file in VRML (Virtual Reality Modelling Language) format, which can be viewed within any Internet browser that supports it, allowing you to fly around and walk through the building with doors opening automatically.

You can specify materials, textures or colours for each design element within your 2D drawing. This means that you exercise complete control over the look and feel of the 3D walkthrough generated. Even components of standard elements can be assigned an individual material, texture or colour. For example, with doors, the door, frame, lintel and threshold can all be given different materials, textures or colours.

It is even possible to specify the transparency of glass and to define a staircase as being either concrete, wooden or open. LT Architect includes a library of architectural textures which can be scaled and rotated when rendering individual building elements. The library of textures can be easily enhanced by adding your own specific requirements as simple image files, thus making the range of finishes you can achieve limitless.

Complete your designs by utilising LT Architect's range of 3D furniture and fittings, which include symbols for home and office furniture, kitchen, bedroom, bathroom, electrical fittings and landscape. All you do is insert the required 2D symbol into your plan, and LT Architect takes care of the rest.



Once you have created the walkthrough file, it can be forwarded across the Internet, or posted onto a Website. This allows anyone involved in a building project, with or without CAD software on their PC and anywhere in the World, to immediately and simultaneously view your design.



The walkthrough file is also compatible with a number of rendering programs such as Artlantis, allowing you to present a photo-realistic image of a project to clients, interior designers and planners.

▶ LT Architect - Technical Overview

Walls

- External wall types -
 - Cavity
 - End cap types - Block Return, Block Projection, Thermal Break
 - Single
 - End cap types - Standard, Block Projection
 - Stone
 - End cap types - Standard, Splayed
- Internal wall types -
 - Structural
 - Non-Structural
- Partion wall types -
 - Solid, Fully Glazed, Half Glazed and Door/Window

Windows

- Window designs -
 - Sash
 - Casement (multiple opening combinations)
 - Bay - 45-degree, 60-degree, Square, Projected and Walk-in
 - Bow - Curved glass, Straight glass, Projected and Walk-in
 - Arched - Full, Variable Radius
- Window parameters -
 - Sill, Jamb, Mullion and Structural Opening dimensions, Number of Panes, Divided Light

Doors

- Door types -
 - Single, Double, Garage, Sliding, Roll-up, Pocket, Cased Opening, Shopfront, Door/Window Combinations
- Door designs -
 - Plain Panel, Panel with Light (square, round, rectangle), Panelled with Glass, Two/Four/Six Panel, French, Louvre, Georgian
- Door parameters -
 - Threshold, Jamb, Stop, Leaf and Structural Opening dimensions

2D Detailing

- Building sections, with modules for -
 - Foundation, DPC, Floor Structure, Wall, Sill, Header, Door, Window, Roof Truss, Roof Tile, Fascia, Stair, Timber Panel
- Structural steel details for construction and fabrication -
 - Portal Frame assemblies, Base Plate and Foundation Pads, Universal Beams, Universal Columns, Joists, Equal and Unequal Angles, Channels, Sections and Tees
- Roofs
 - Gable or Hipped
- Stairs
 - Plan -
 - Straight, Quarter Turn, Half Turn, Spiral, Winders
 - Elevation -
 - Straight, Quarter Turn, Half Turn, Sprial, Winders
- Symbols
 - Fixtures and fittings -
 - Electrical, Plumbing, Furniture, Kitchen
 - Site work and details -
 - Landscape, Vehicles, Signage and Structural

3D Walkthrough

- VRML Walkthrough files
 - Support for the following
 - LT Architect elements -
 - Walls, Windows, Doors, Roofs, Staircases
 - 3D symbol library with -
 - Home and Office Furniture, Kitchen, Bedroom, Bathroom, Electrical Fittings, Landscape, Primitive shapes and Miscellaneous items including Escalators, Glass Canopies, Quoining and Gutters

**For more information go to www.cadlogic.com/ltarchitect
LT Architect is available from your preferred Autodesk supplier
To locate your nearest dealer or to order a free demo CD, contact CADlogic today**

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