

# Allplan 2012

## Data Exchange Formats

### Import

General import formats	File extension	Version, notes
DXF, DWG, AutoCAD-Data	.dxf, .dwg, .dwt, .dxb	Up to DWG version 2012
DGN, MicroStation-Data	.dgn	Up to DGN version 8 (ODA v 3.02)
PDF, PDF/A	.pdf	Vector data import
3D-PDF	.pdf	Format U3D (ECMA-363 1st edition)
IFC	.ifc	Versions 2x3, 2x, XML 2x3, XML 2x
CINEMA 4D	.c4d	Versions 10.5 - 12
Google SketchUp	.skp	Up to version 7
GDL Objects	.gsm, .lcf	
Rhino	.3dm	Versions 1...4
STL	.stl	
VRML	.wrl	Version 2
Hpgl/2 plot files	.plt, .hp, .hpg, .hpl, .prn	
Step CDS *	.stp	On request at <a href="http://www.weltweitbau.de">www.weltweitbau.de</a>

Import via CINEMA 4D (selection) *	File extension	Version, notes
3D Studio *	.3ds	
Adobe Illustrator *	.ai	Up to version 8

Import formats for coordinate values, terrain model	File extension	Version, notes
Coordinate, axis and curve values	.re1, .reb, .re2, .asc, lin	Including lines with attributes
Terrain model: longitudinal profiles, cross-sections	.lpr, .qpr	

\* Available with additional software

Import formats for Civil Engineering	File extension	Version, notes
FEM Data (Friedrich+Lochner, SCIA *)	.asf	Also Infograf, Cedrus, Mb, Tornow, PCAE (4H-ALFA), Arche, RoboBAT, SCAD
SCIA ESA PT *	.esa	
Reinforcement data	.a	
CEDRUS elements	.sin	Cubus finite elements
Bridges and civil engineering modeler	.ndk	

Import formats for precast factories	File extension	Version, notes
Order data from commercial software	.ads	

\* Available with additional software

## Export

General export formats	File extension	Version, notes
DXF, DWG - AutoCAD-Data	.dxf, .dwg	Versions 12 to 2012
DWF – AutoCAD-Data	dwf	Versions 6 to 7
DGN - MicroStation-Data	.dgn	Versions 7 to 8 (ODA v 3.02)
PDF, PDF/A	.pdf	With layers ("levels")
3D-PDF	.pdf	Format U3D (ECMA-363 1st edition)
IFC	.ifc	Versions 2x3, XML 2x3
SVG	.svg	
Hpgl/2 plot data	.plt, .hp, .hpg, .hpl, .prn	
Google SketchUp *	.skp	Version 6 and 7
Google Earth *	.kml	Via free Google SketchUp
CINEMA 4D	.c4d, .c4u	Version 5 to 12
Rhino	.3dm	Version 4
STL	.stl	
VRML	.wrl	Version 2
Universal 3D	.u3d	Format ECMA-363 1st Edition
3D Studio Max	.3ds	
Step CDS *	.stp	On request at <a href="http://www.weltweitbau.de">www.weltweitbau.de</a>

Export formats for quantities data	File extension	Version, notes
Quantities for Allplan BCM, Excel	.xac, .xls	
XML attributes	.xml	For EDM control (e.g. Rivera)

Export formats for coordinates, terrain model	File extension	Version, notes
Coordinate, axis and curve values	.re1, .reb, .re2, .asc, lin	Including lines with attributes
Terrain model: longitudinal profiles, cross-sections	.lpr, .qpr	

\* Available with additional software

Export formats for building physics, thermal insulation	File extension	Version, notes
Core Insulation	.cdk	

Export formats for Civil Engineering	File extension	Version, notes
Friedrich+Lochner PLT, SC7, GEO	.asc	
SCIA ESA PT *	.esa	
BAMTEC file	.tec	BAMTEC robot
CEDRUS elements	.sin	Cubus finite elements

\* Available with additional software

## Pixel formats: import and export

Import and export formats: pixel files	File extension	Version, notes
JPEG	.jpg, .jff, .jtf	24-Bit (incl. with geo reference info)
PNG	.png	(1-, 2-, 4-, 8-, 24-Bit)
Mac PICT	.pct	(8-, 24-Bit)
OS/2 BMP	.bmp	(1-, 4-, 8-, 24-Bit)
PCX	.pcx	(1-, 8-, 24-Bit)
PSD	.psd	(1-, 8-, 24-Bit)
TGA	.tga	(8-, 16-, 24-, 32-Bit)
TIF	.tif	(1-, 2-, 4-, 8-, 24-, 32-Bit) as well as geo tiff
BMP	.bmp	(1-, 2-, 4-, 8-, 16-, 24-, 32-Bit)

## Special interfaces: on request

System control, logistics and processing in precast construction

- ▶ Interface for order management
- ▶ Interface to commercial software systems
- ▶ Unitechnik data format (ULB interface) also optional for mesh welding systems
- ▶ Leit2000 data format also optional for mesh welding systems
- ▶ AIA-ASCII data format also optional for mesh welding systems
- ▶ Various machine-specific special formats for plotters, iron works, concrete spreaders, ...

## Application programming interfaces

COM, NOI	Interfaces for programming attachments, e.g. for Add-Ins of SCIA, Cadics, Weto, AX3000, BJC On-Site
XML	Interface for symbol, macro and CAD data

## Windows interfaces

OLE	Embed or link Word, Excel, PDF documents
Clipboard	For Allplan data and external formats such as pixel images, text, tables

## Report interfaces

Bills of quantities, bulk lists, bills of materials and special lists can be generated as Excel lists or PDF files including the following examples:

- ▶ Shell lists
- ▶ Dismantling lists
- ▶ Window lists
- ▶ Door lists
- ▶ Area lists
- ▶ Room lists
- ▶ Living area lists
- ▶ DIN 276 lists
- ▶ Component lists
- ▶ Material lists
- ▶ Position lists
- ▶ Bend lists
- ▶ Cutting schemes
- ▶ Steel lists
- ▶ Individual slab account
- ▶ Pallet plan
- ▶ Settlement list
- ▶ Dimensioning list
- ▶ Fixtures
- ▶ Cutting list
- ▶ Sorted cutting list
- ▶ Batch list

## Notes regarding formats

C4D	CINEMA 4D format
C4U	CINEMA 4D update format, controls the Allplan update in CINEMA (the plug-in is installed with Allplan)
DGN	MicroStation file format (Bentley)
DWG	AutoCAD file format (Autodesk)
DWF	"Drawing Web Format"; a compressed DXF
DWT	Template file for DWG, comparable with a .dot file for Word
DXB	Binary DXF
DXF	"Drawing Exchange Format" from AutoCAD; is supported by most CAD systems.
HPGL/2	"Hewlett Packard Graphics Language", a standardized plotter language.
IFC	Acronym for "Industry Foundation Classes". IFC is the forthcoming format for component and building-oriented exchange. See <a href="http://www.buildingsmart.de/">http://www.buildingsmart.de/</a>
PDF	"Portable Document Format" from Adobe, common standard for documentation and archiving
RE1	Data type 1 for coordinates and data type 40 for axes
REB	Data type 45 for coordinates and data type 50 for axes
RE2	Comma-separated format for coordinates and axes
SVG	"Scalable Vector Graphics" (Adobe)
WRL	"World" of a VRML file. Free viewer: <a href="http://www.parallelgraphics.com/products/cortona/">www.parallelgraphics.com/products/cortona/</a>