

Available functionalities

Advance Concrete 2014 Packages

	Advance Concrete 2014 Packages		
	Professional Engineering	Professional Detailing	Premium
MODELING			
• Structural elements: Column, Beam, Slab, Isolated footing, Continuous footing, Pile	✓		✓
• Structural elements: Stairs, Roofs	✓		✓
• Slabs, walls and beam openings	✓		✓
• Automatically create footings adapted for every structural element	✓		✓
• Converting ACIS solids into Advance Concrete elements and vice versa	✓		✓
• Export the structure in the AutoCAD® DWG format with ACIS elements	✓		✓
• Converting ADT entities into Advance structural elements	✓		✓
• Converting AutoCAD® 2D entities from the architectural drawing into Advance structural elements	✓		✓
• Layer naming standards definition	✓		✓
MATERIAL AND SECTION LIBRARIES			
• Various concrete, masonry and full bricks materials	✓		✓
• Parametric sections	✓		✓
• Sections from libraries: AISC, OTUA, Euro Profile	✓		✓
• Possibility to create user sections	✓		✓
AUTOMATIC VIEW CREATION			
• Plan views creation	✓		✓
• Elevation views creation	✓		✓
• Cross section views creation	✓		✓
• Isometric views creation	✓		✓
• Reinforcement views creation		✓	✓
• Automatic labeling	✓	✓	✓
• Drawings dimensioning	✓	✓	✓
• Copying the dimensions and labels from one drawing to another	✓		✓
• Export documents and drawings to DWG	✓	✓	✓
REINFORCEMENT DRAWING CREATION			
• Manual reinforcement (stirrups, straight bars, polygonal bars, meshes)		✓	✓
• Manual reinforcement using shape codes according to standards		✓	✓
• Automatic shape code recognition for reinforcement bars		✓	✓
• Automatic distribution of meshes on surfaces		✓	✓
• Meshes: stock cutting optimization		✓	✓
• Management of bar and mesh symbols		✓	✓
• Management of bending details		✓	✓
• Insert automatic reinforcement styles	✓	✓	✓
• Insert dynamic reinforcement in the model	✓	✓	✓
• Define dynamic reinforcement solutions		✓	✓
• Reinforcement 3D viewer (preview)		✓	✓
• Collisions detection for bars and meshes		✓	✓
• Generate new sections and elevations on detailed reinforcement (3D Power)		✓	✓
• Automatic creation of reinforcement symbols and bending details		✓	✓
• Mesh and bar schedules		✓	✓
• Import reinforcement drawings from Arche Reinforcement		✓	✓
• Import reinforcement drawings from Advance Design		✓	✓
DOCUMENTS			
• Arranging drawings on layouts	✓	✓	✓
• Adding frame and title block	✓	✓	✓
• BOM creation for concrete volume and formwork area	✓		✓
• View, sort and filter materials from drawings or from structural elements		✓	✓
• Compare the estimated rebar weight with the detailed bar weight		✓	✓
• Material orders management. The ordered bars and meshes are locked and can no longer be modified.		✓	✓
INTEROPERABILITY			
• BIM synchronization with GRAITEC compatible software and Revit	✓	✓	✓
• IFC 2x3 export / import	✓	✓	✓
• Export 3D reinforcement to DWF		✓	✓
• Exporting material lists in NC files: aSa, Soule and SteelPAC		✓	✓
• Export material lists to XLS and DOC format		✓	✓
MULTI USER			
• Possibility for several users to work together at the same time to create a model.			✓