Structural Analysis Software Development Toolkit (SDK)

Welcome to the Structural Analysis Software Development Toolkit. This package includes some templates for Visual Studio, documentation and samples that support creation of Structural Analysis and Code Checking applications using Results Builder component and Code Checking Framework for Autodesk Revit.

Content

Folder	Files	Description
Documentation	Read Me First.pdf	Document containing the packing list for the this SDK.
	Getting Started for Results Builder SDK.pdf	Getting started document contains information about the basics of Results Builder components and how to create a first application using it.
	Getting Started Code Checking Framework SDK.pdf	Getting started document contains information about the basics of Code Checking SDK and how to create a first Code Checking application.
	User Manual for Code Checking Framework SDK.pdf	User manual document contains detailed information about the Code Checking Framework API and SDK.
	Step by Step Example – Code Checking Concrete.pdf	This document explains how the CodeChecking Concrete example in the samples folder is constructed starting from an empty project.
	Manual Verifications Concrete.pdf	This document is a validation manual for the concrete reinforcement component part of the Code Checking SDK
	Structural Analysis and Code Checking API Reference Guide.chm	This document is a chm documentation of public API exposed by the Code Checking Framework component

Folder	Files	Description
Examples	ExtensibleStorageUI	Sample to learn how to take advantage of the ExtensibleStorage Framework (UI part).
	ExtensibleStorageDocumentation	Sample to learn how to take advantage of the ExtensibleStorage Framework (Report part).
	CodeCheckingConcreteExample	Sample of a Concrete Code Checking application. This example should be review with the step by step document.
	ConcreteCalculationsExample	Sample to learn how to take advantage of the Concrete calculations component. This example provides calculations for all cases listed on the calculation manual.
	SectionPropertiesExplorer	Sample to learn how to take advantage of the Engineering component.
	ASCE-7-10	Sample to learn how to take advantage of the Load Combination Framework.
	QueryingResults	Sample to learn how to query structural analysis results stored inside Revit model using Results Builder component.
	StoringResults	Sample to learn how to store structural analysis results inside Revit model using Results Builder component.

Folder	Files	Description
Visual Studio	Items	This directory contains files to copy on items template folder from Visual Studio.
	Project	This directory contains files to copy on items project folder from Visual Studio.
	Addins	This directory contains an Add-in for Visual Studio and a description how to install it.