

Advance Steel Extension for BIM Webinar

- Advance Steel을 활용한 데이터 연계 및 확장성 -



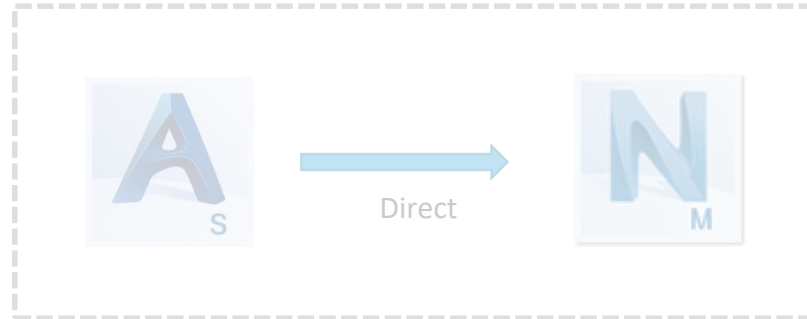
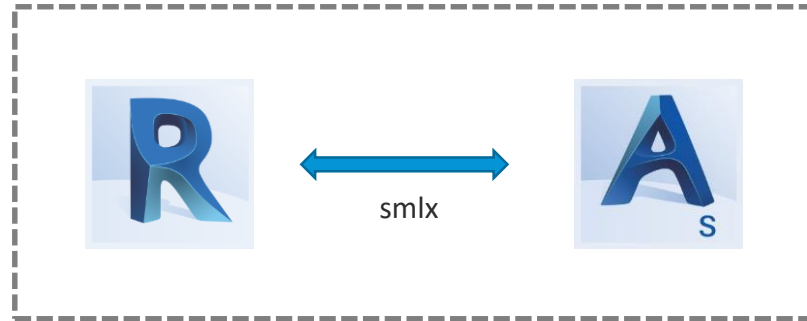
Advance Steel Extension

Lee Kyung Mi

amanda.lee@sckcorp.co.kr



Data Interface



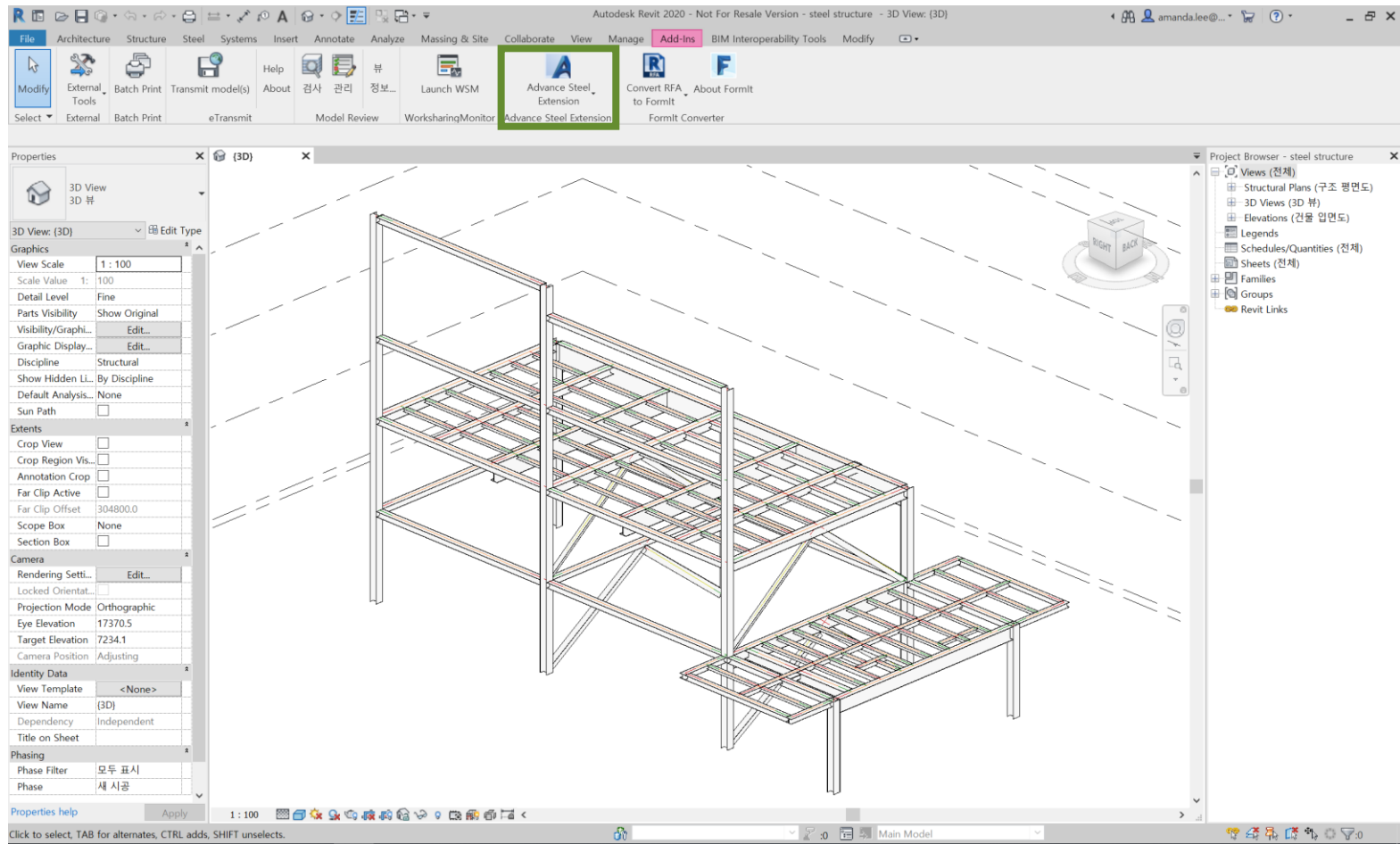
Revit – Interoperability with Advance Steel

Advance Steel Extension Download → Autodesk Account

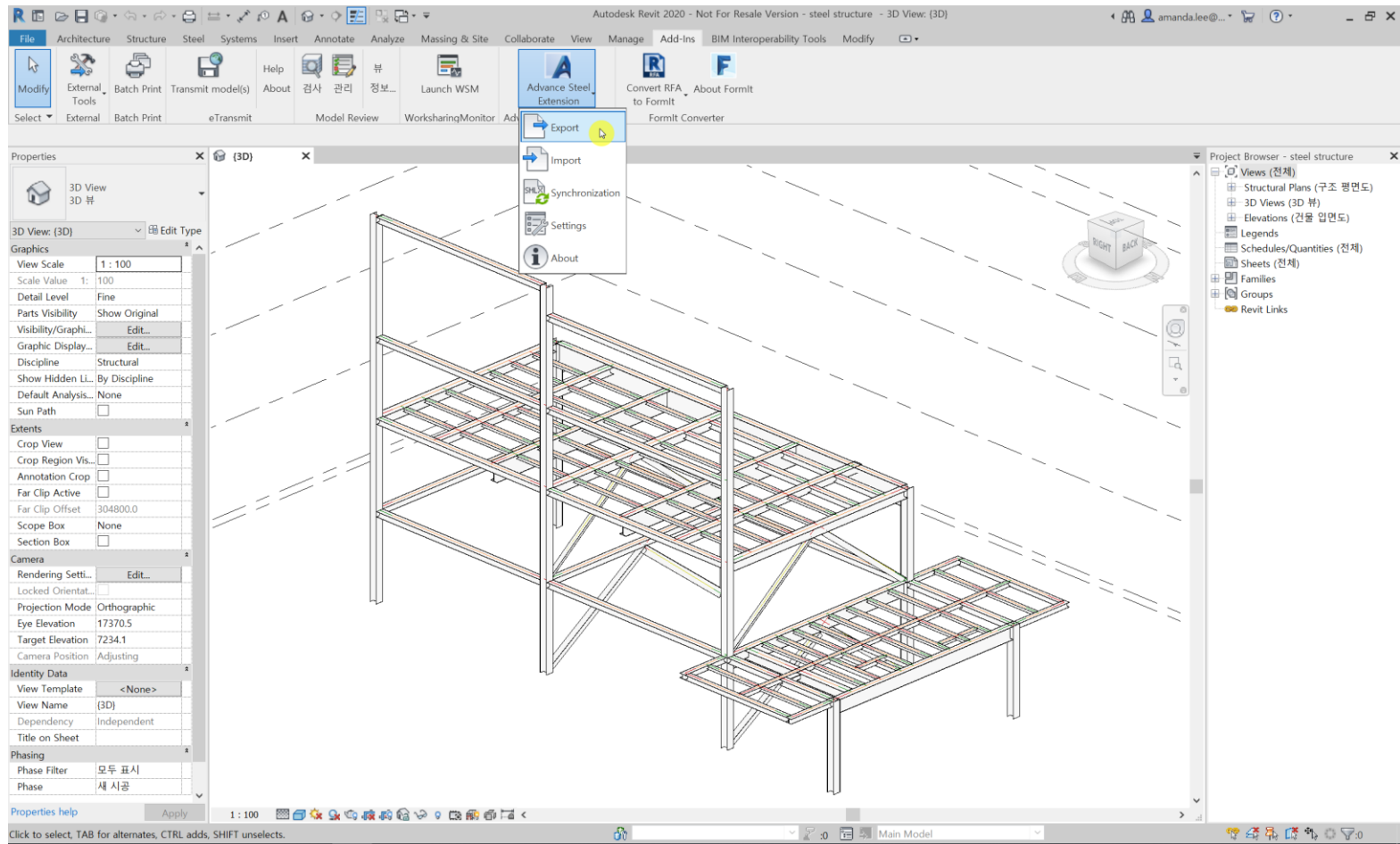
The screenshot shows the Autodesk Account website interface. The left sidebar contains navigation links: Home, Products and Services, Manage my products, Manage my subscriptions, and Reports. The main content area displays a list of updates and extensions. The 'Advance Steel Extension for Revit 2020 Hotfix 1' is highlighted with a green box. Below it are updates for Civil 3D, Navisworks Simulate, Navisworks Manage, and Navisworks Freedom.

Product	Update Name	Released	Severity	Action
Civil 3D	Shared Reference Point for Autodesk Civil 3D 2020	9월 13, 2019	Medium	Download
Civil 3D	DACH Extension for Autodesk Civil 3D 2020	9월 13, 2019	Medium	Download
Revit	Advance Steel Extension for Revit 2020 Hotfix 1	9월 13, 2019	Medium	Download
Civil 3D	Civil 3D 2020.1.1 Update 64-Bit	9월 12, 2019	High	Download
Navisworks	Navisworks Simulate 2019 Update 3 64-Bit	9월 11, 2019	Medium	Download
Navisworks	Navisworks Manage 2019 Update 3 64-Bit	9월 11, 2019	Medium	Download
Navisworks	Navisworks Freedom 2019 Update 3 64-Bit	9월 11, 2019	Medium	Download

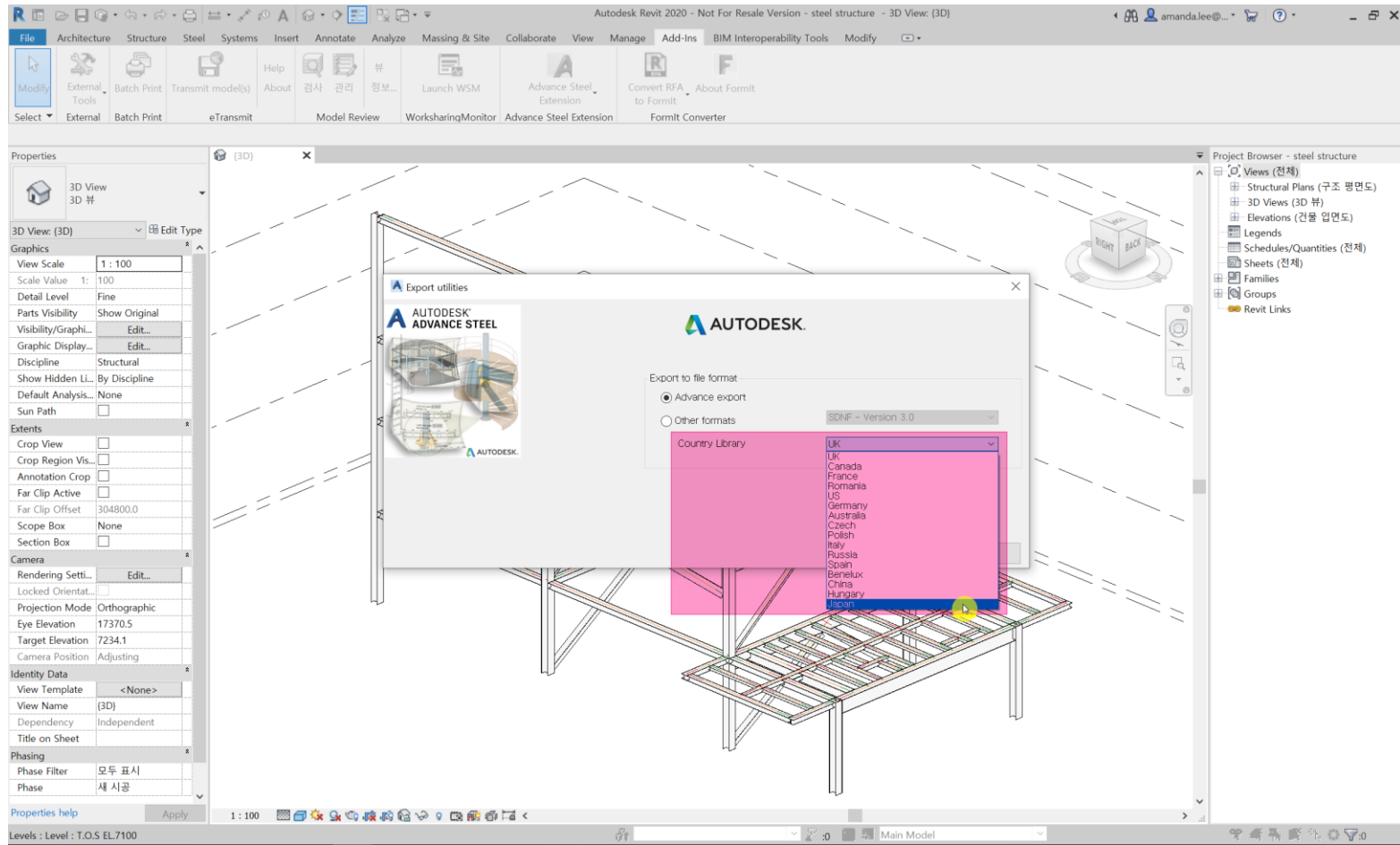
Revit – Interoperability with Advance Steel



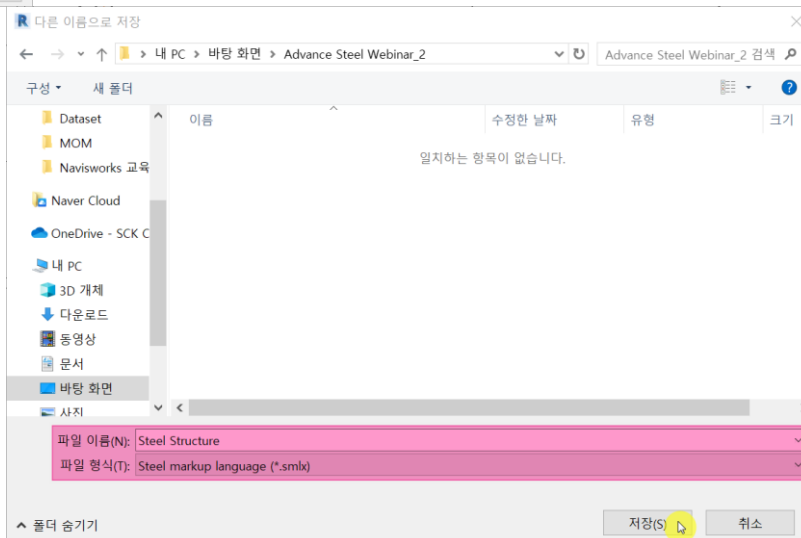
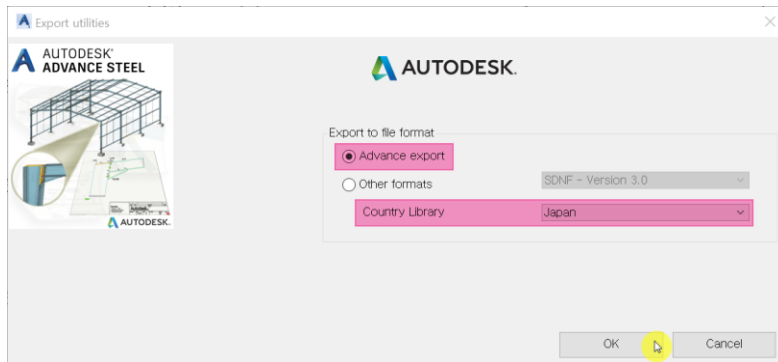
Revit – Interoperability with Advance Steel



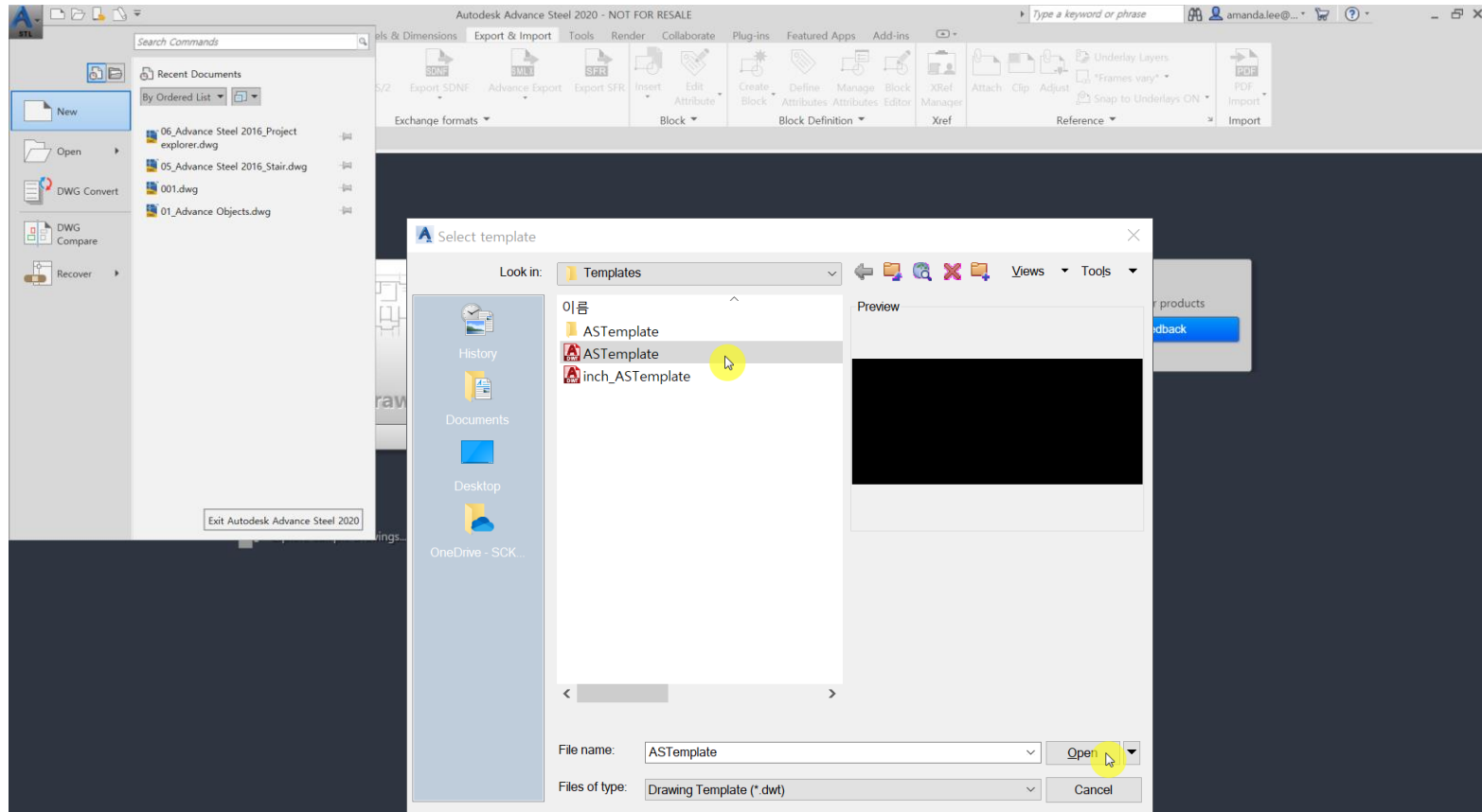
Revit – Interoperability with Advance Steel

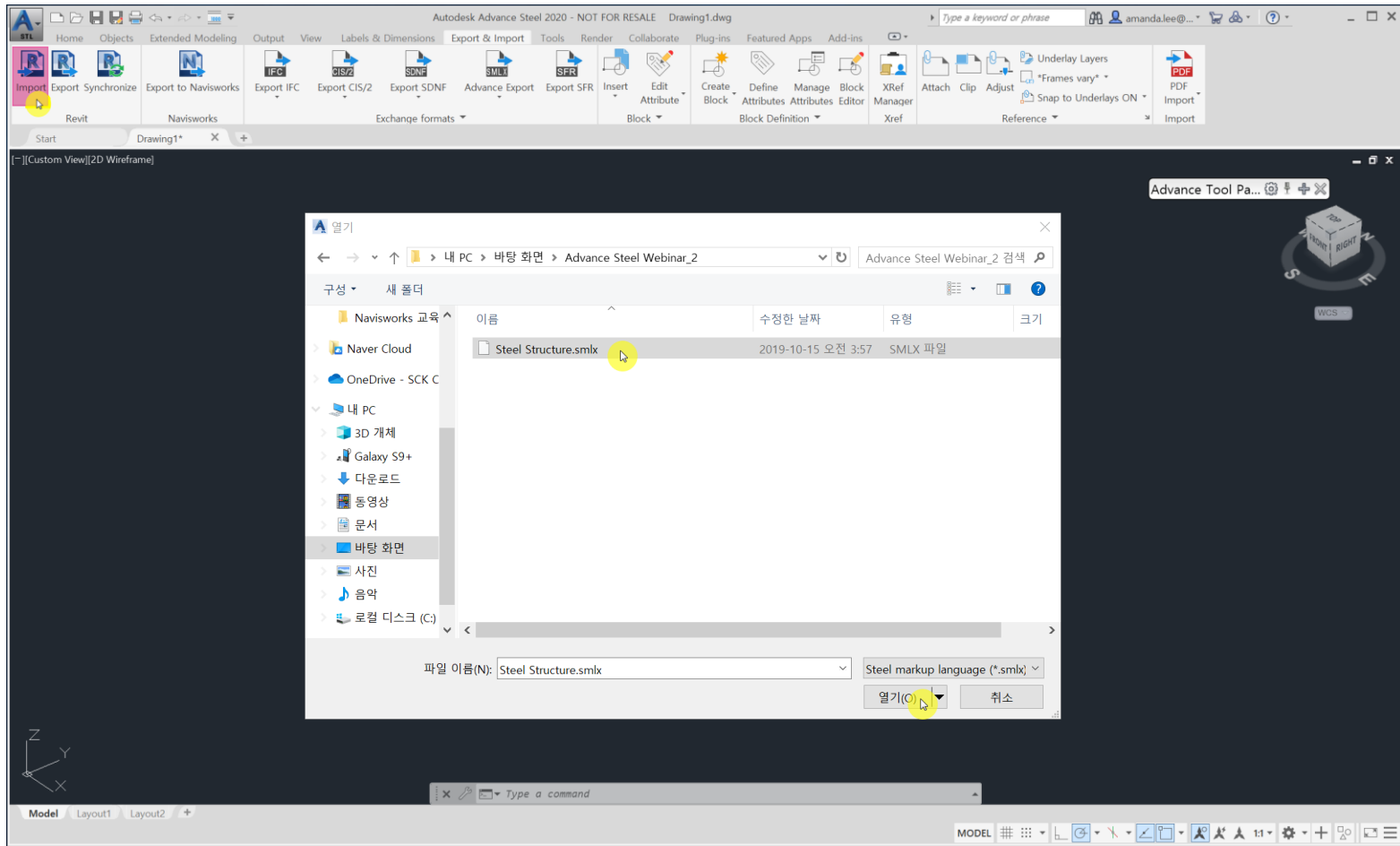


Revit – Interoperability with Advance Steel

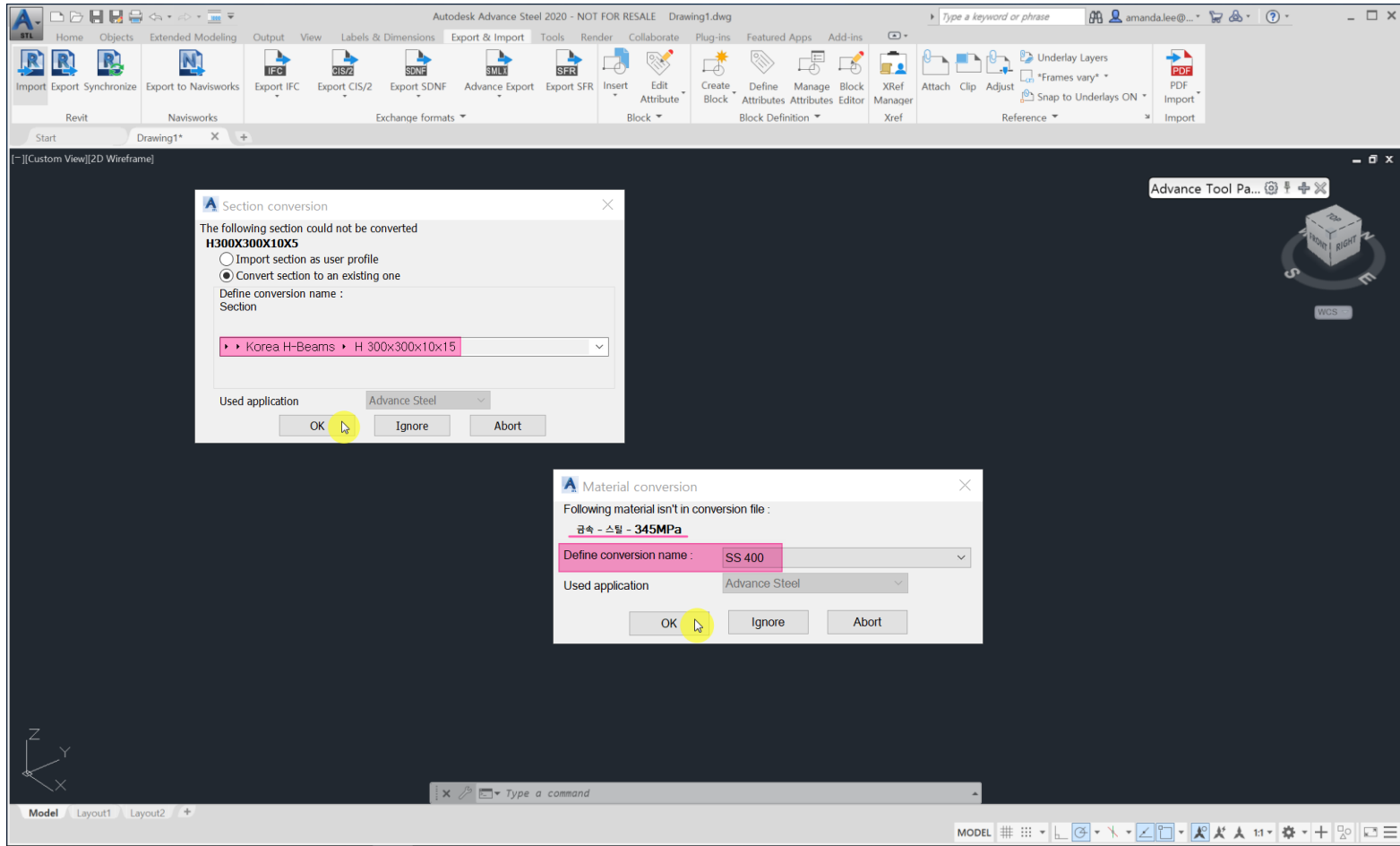


Revit – Interoperability with Advance Steel

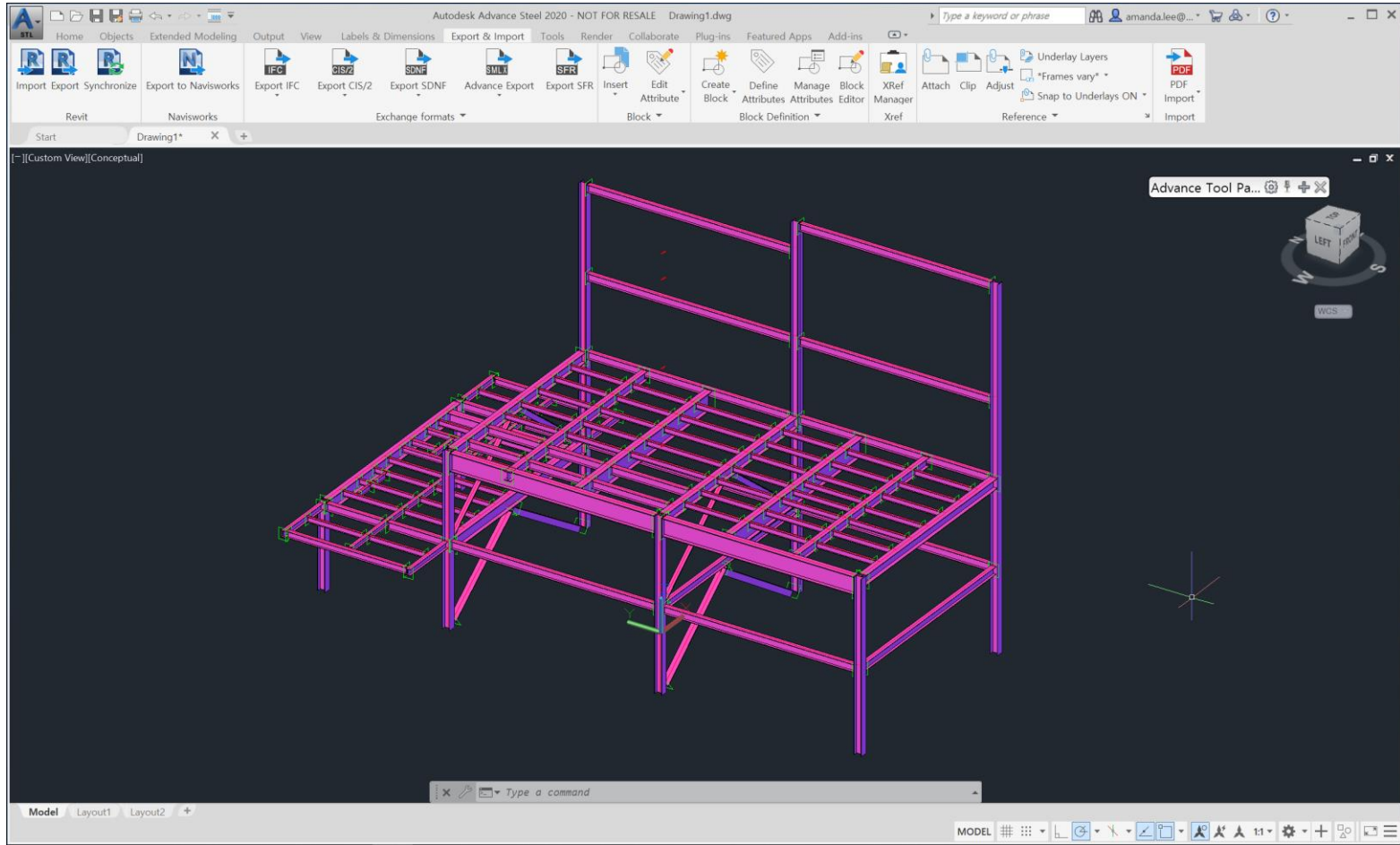




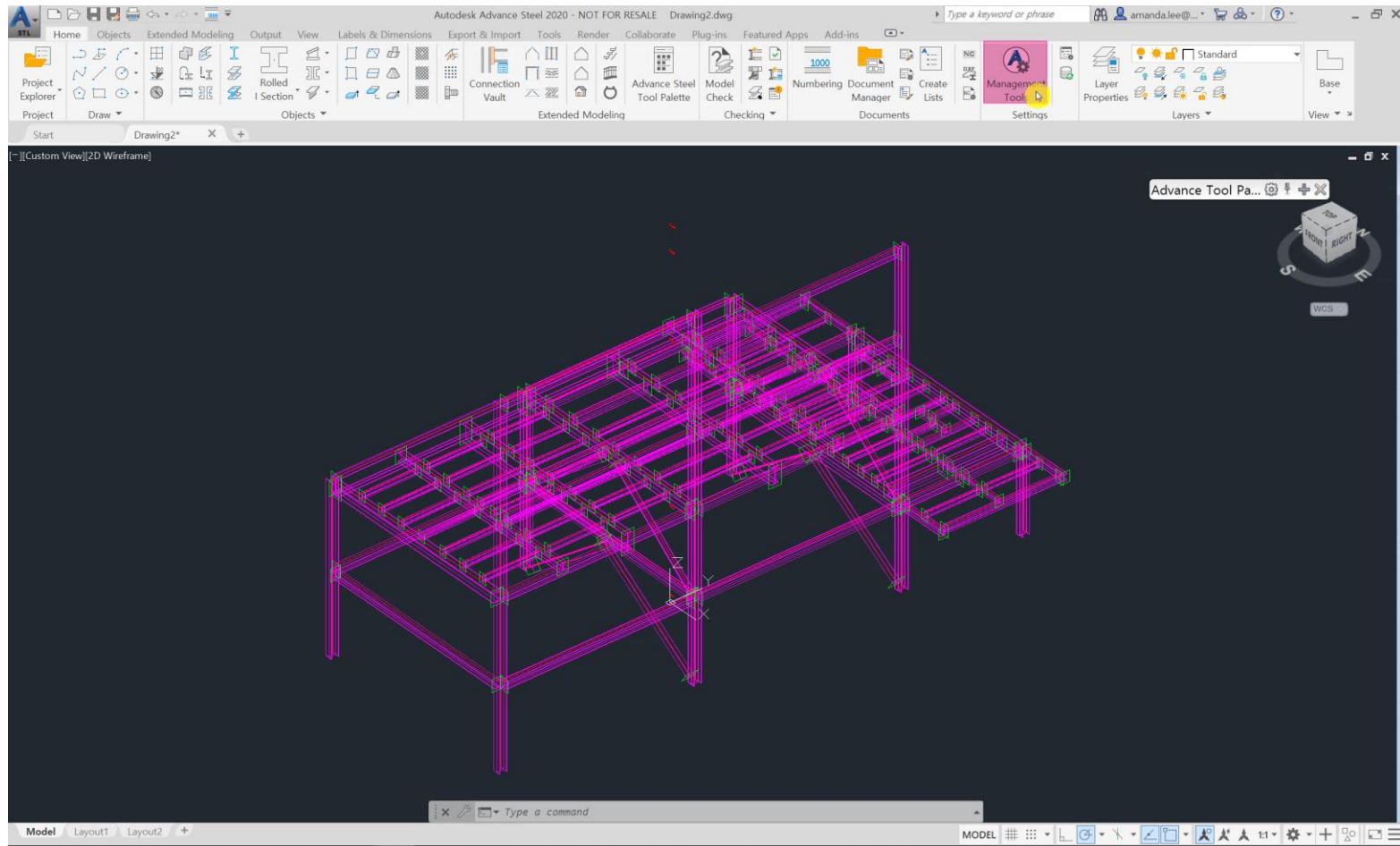
Revit – Interoperability with Advance Steel



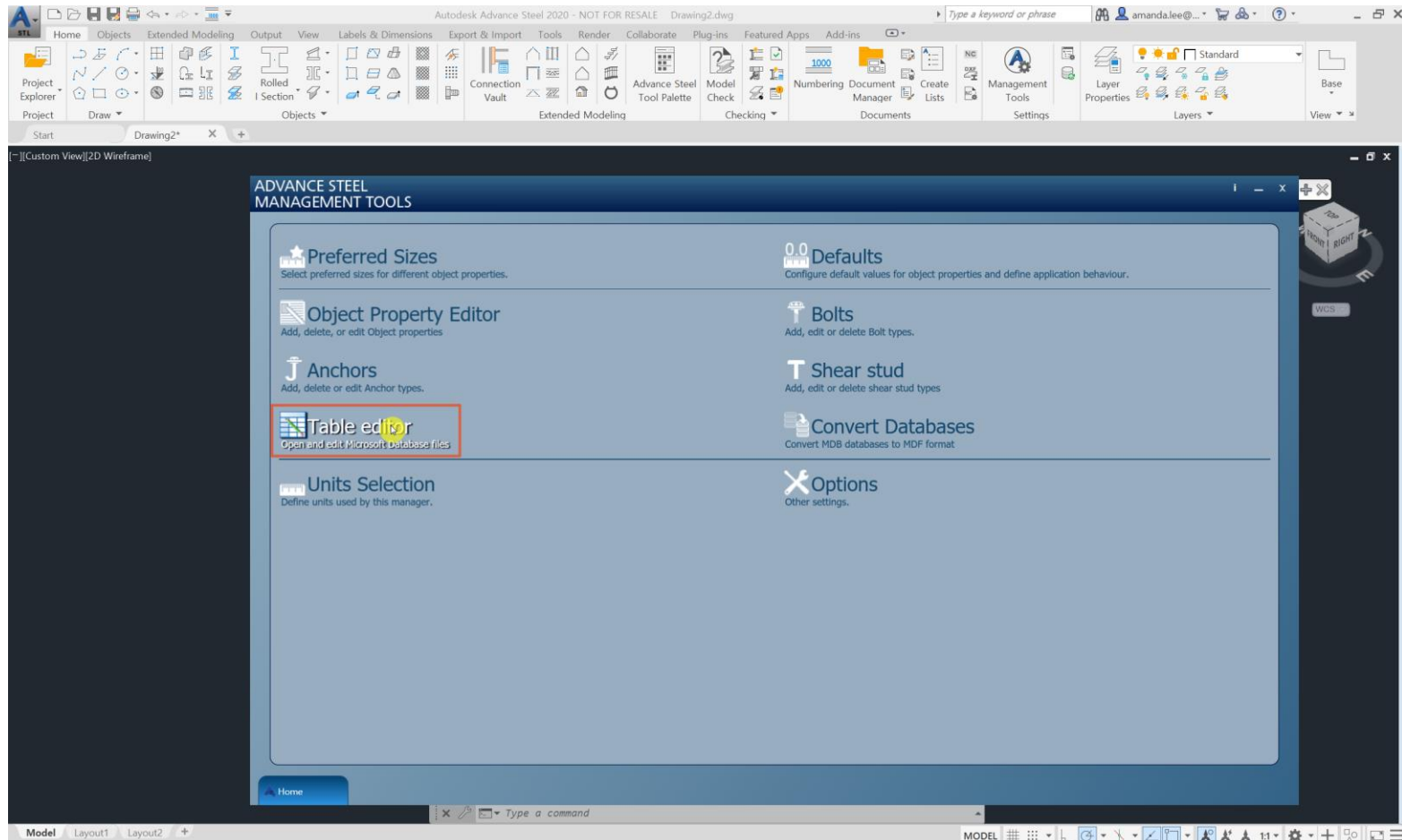
Revit – Interoperability with Advance Steel



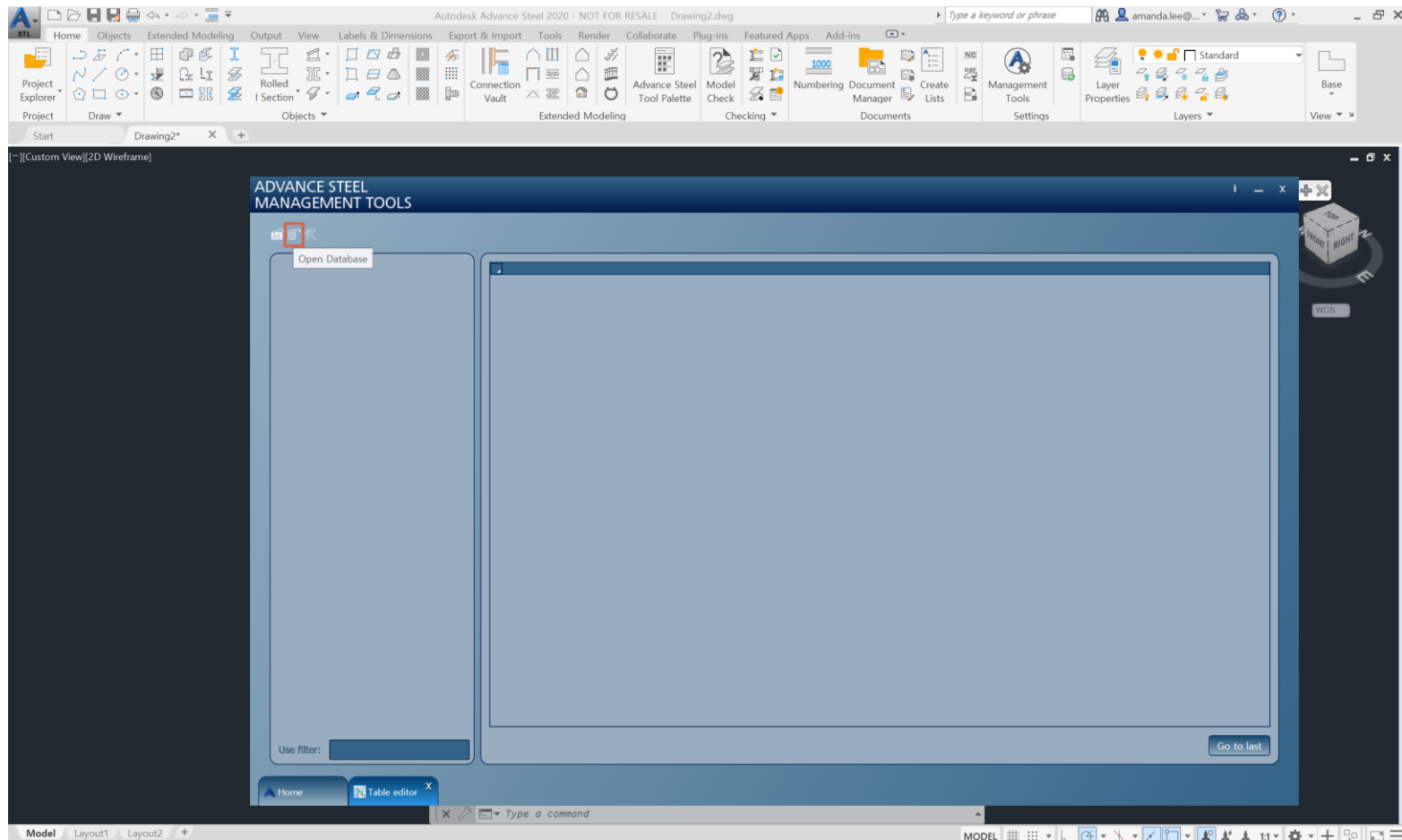
Revit – Interoperability with Advance Steel



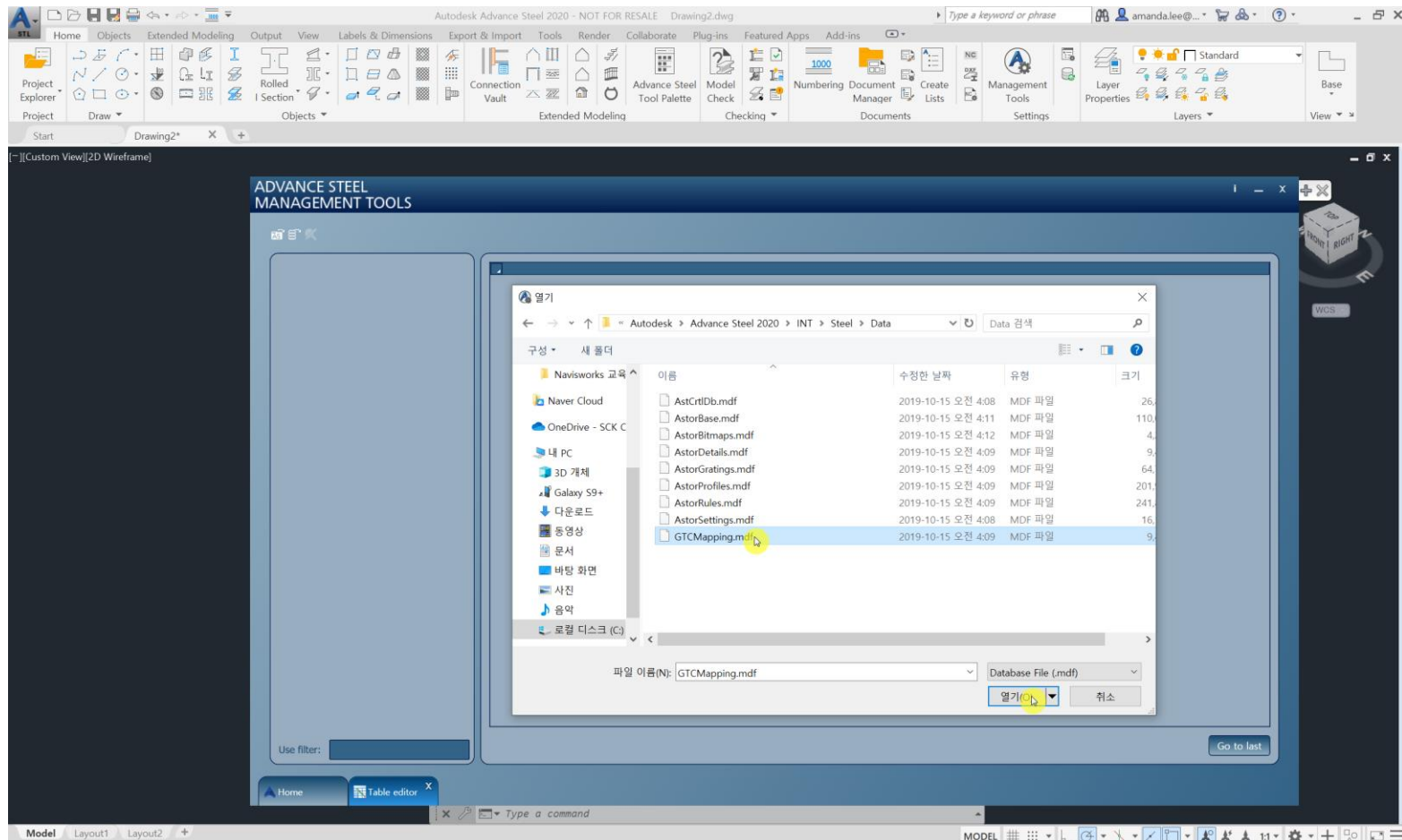
Revit – Interoperability with Advance Steel



Revit – Interoperability with Advance Steel



Revit – Interoperability with Advance Steel



Revit – Interoperability with Advance Steel

ADVANCE STEEL MANAGEMENT TOOLS



GTCMapping.mdf

ASVersion
CIS2_Bolt_Conversion
GTC_Application
GTC_Material_Conversion
GTC_Profile_Conversion
KISS_Application
KISS_Material_Conversion
KISS_Profile_Conversion
KissPlateMaterial
Object_Type
PRF_Application
PRF_Material_Conversion
PRF_Profile_Conversion
Profile_Exports_Conversion
Profile_Rotation
RevitCountry
RevitVersion
STD_Application
STD_Material_Conversion
STD_Profile_Conversion

Key	Material	GTC Material	Application
20086	Concrete, Cast-in-Place - C50	C50	10
20087	Concrete, Cast-in-Place - C60	C60	10
20088	Concrete, C12/15	C12/15	10
20089	Concrete, C16/20	C16/20	10
20090	Concrete, C20/25	C20/25	10
20091	Concrete, C25/30	C25/30	10
20092	Concrete, C30/37	C30/37	10
20093	Concrete, C35/45	C35/45	10
20094	Concrete, C40/50	C40/50	10
20095	Concrete, C45/55	C45/55	10
20096	Concrete, C50/60	C50/60	10
20097	Concrete, C55/67	C55/67	10
20098	Concrete, C60/75	C60/75	10
20099	Concrete, C70/85	C70/85	10
20100	Concrete, C80/95	C80/95	10
20101	Concrete, C90/105	C90/105	10
20102	Structural Steel - S235	S235JR	10
20103	Structural Steel - S275	S275JR	10
20104	Structural Steel - S355	S355JR	10
20105	Structural Steel - S460	S460	10
22001	SS400	금속 - 스틸 - 345MPa	1

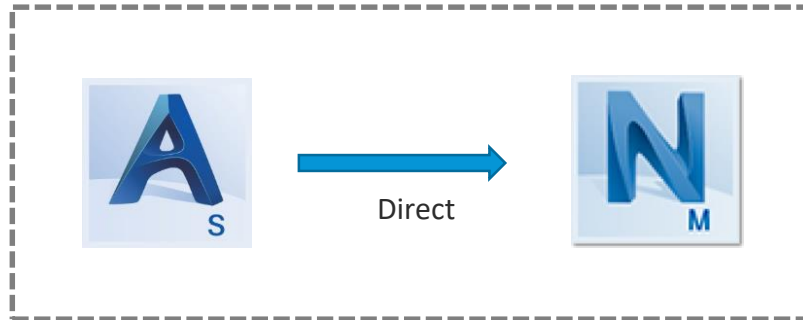
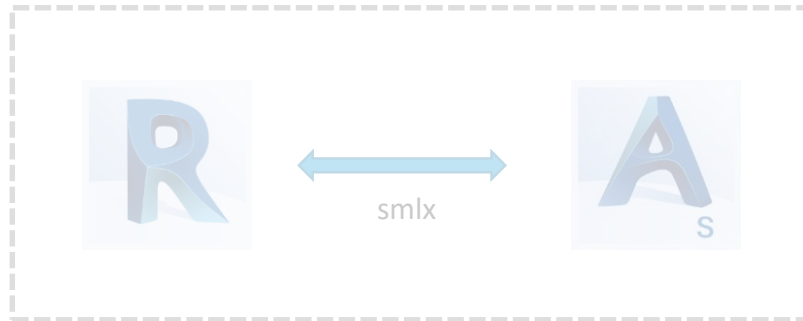
Use filter:

Go to last

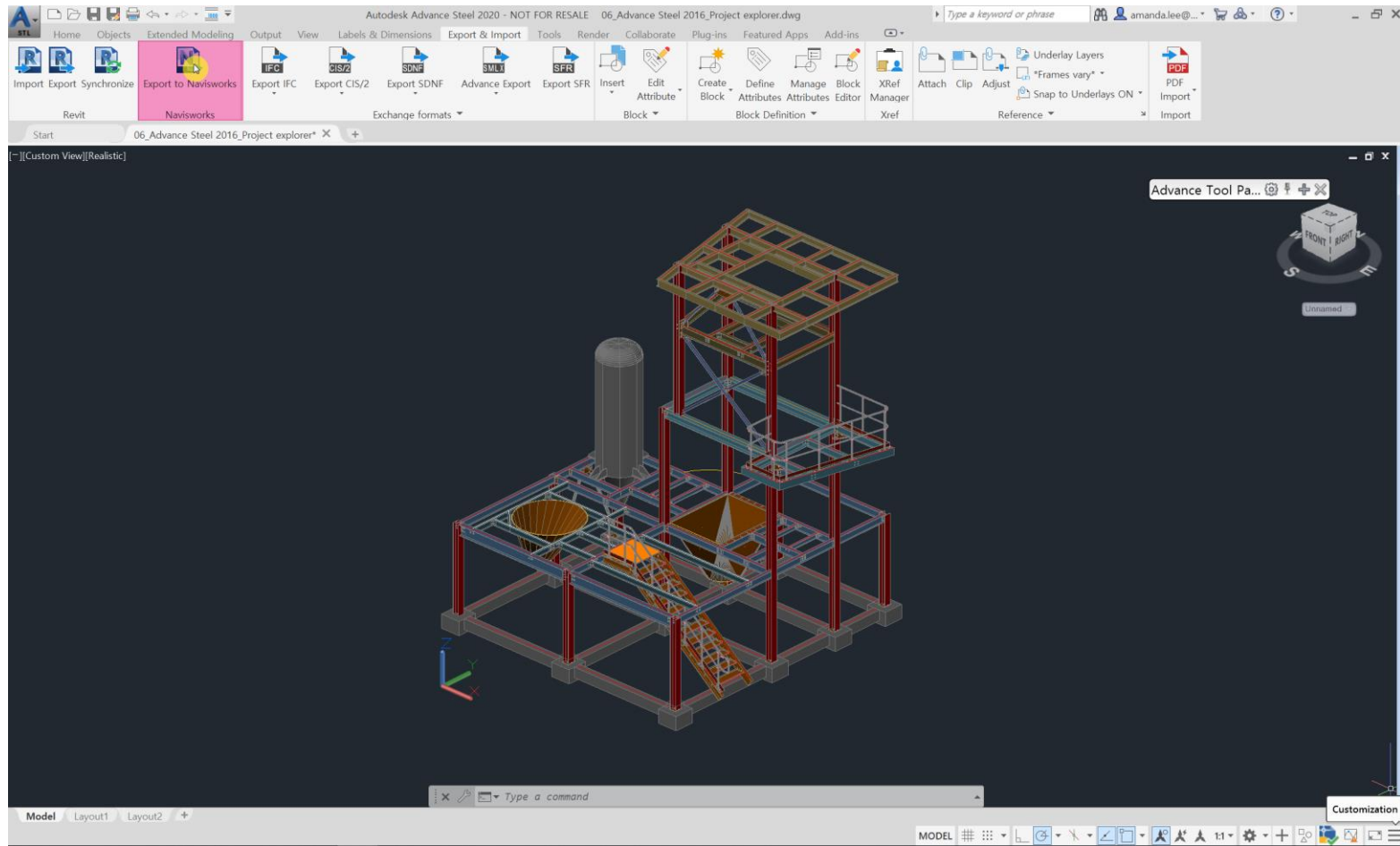
Home

Table editor

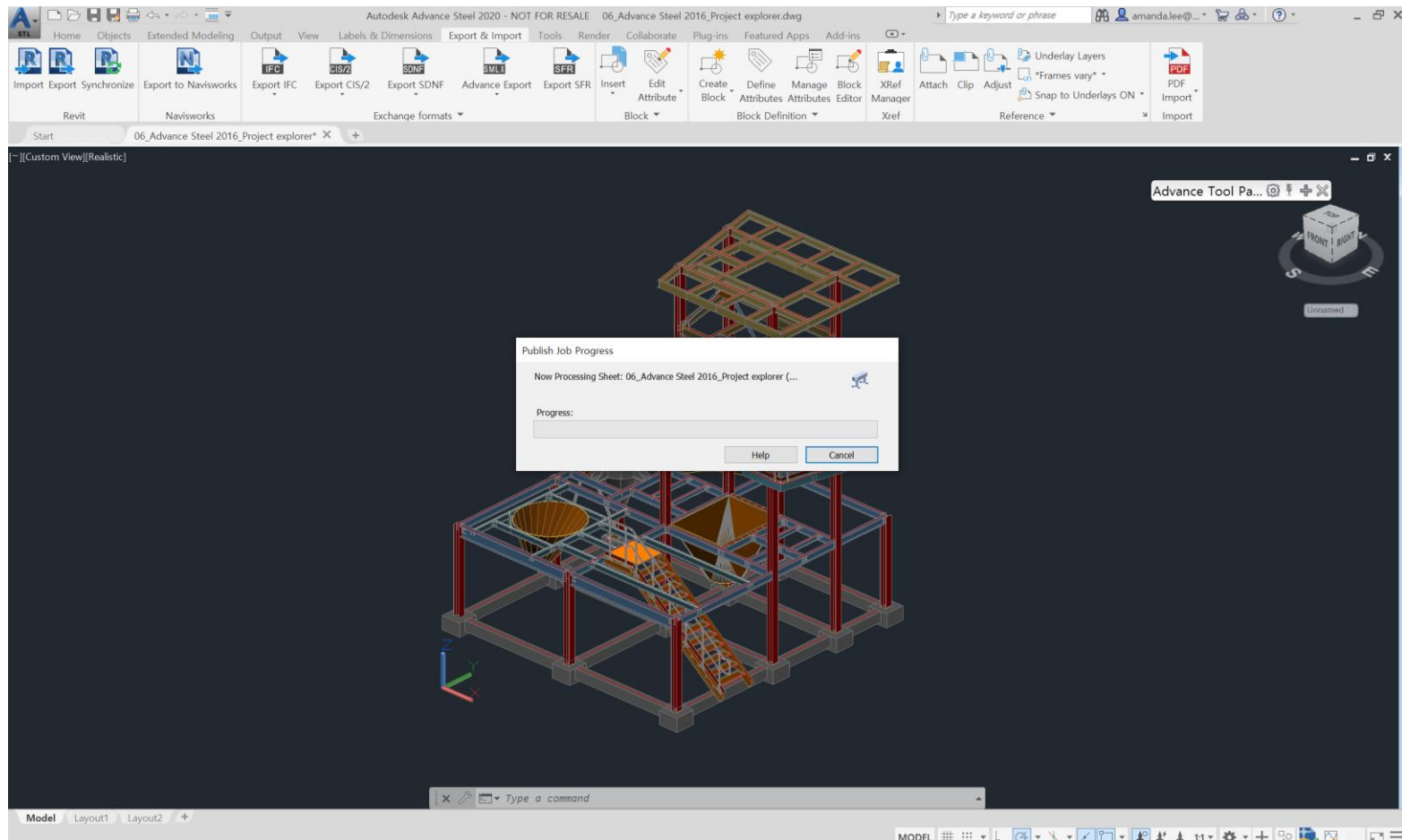
Data Interface



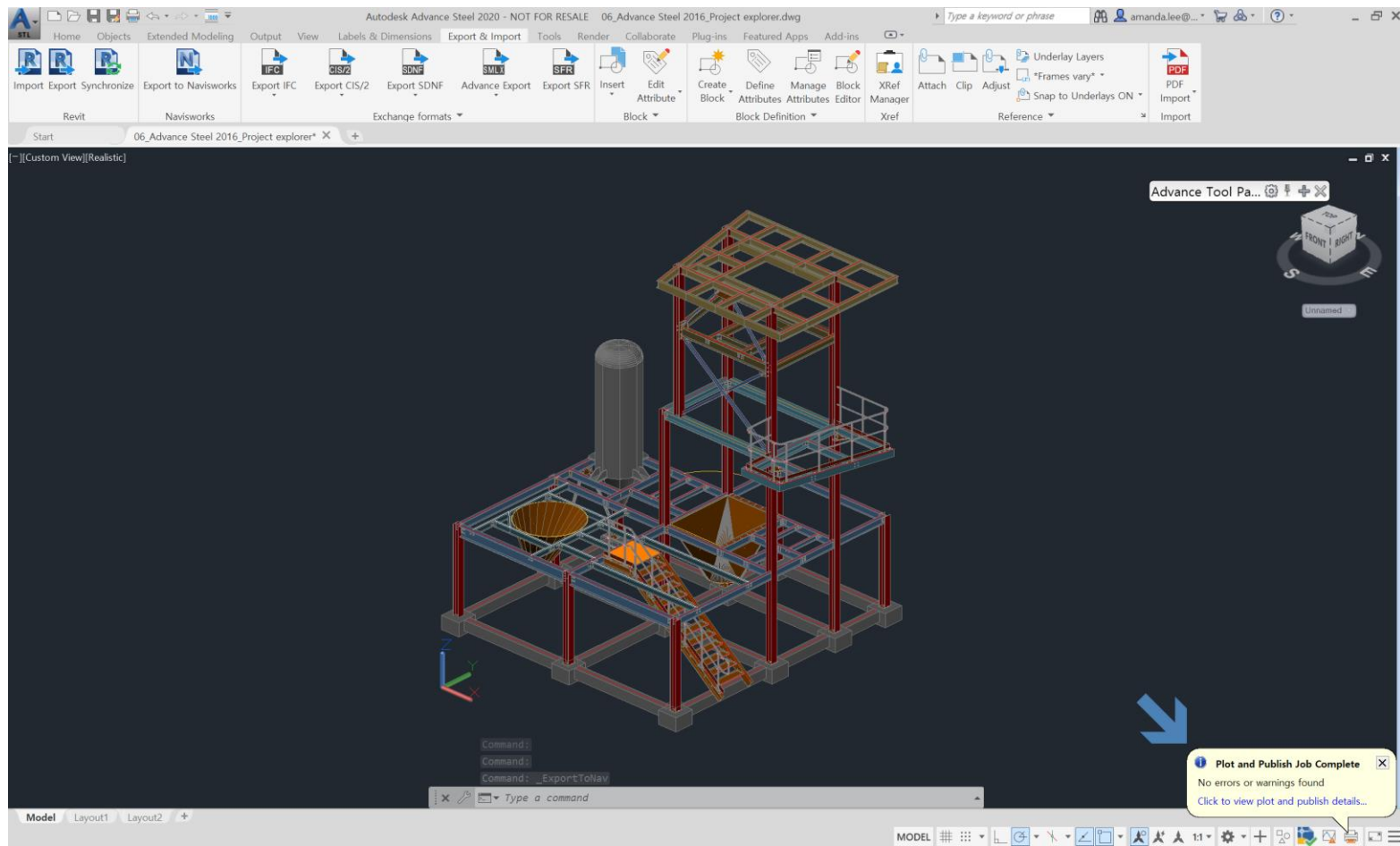
Advance Steel - Navisworks Interoperability



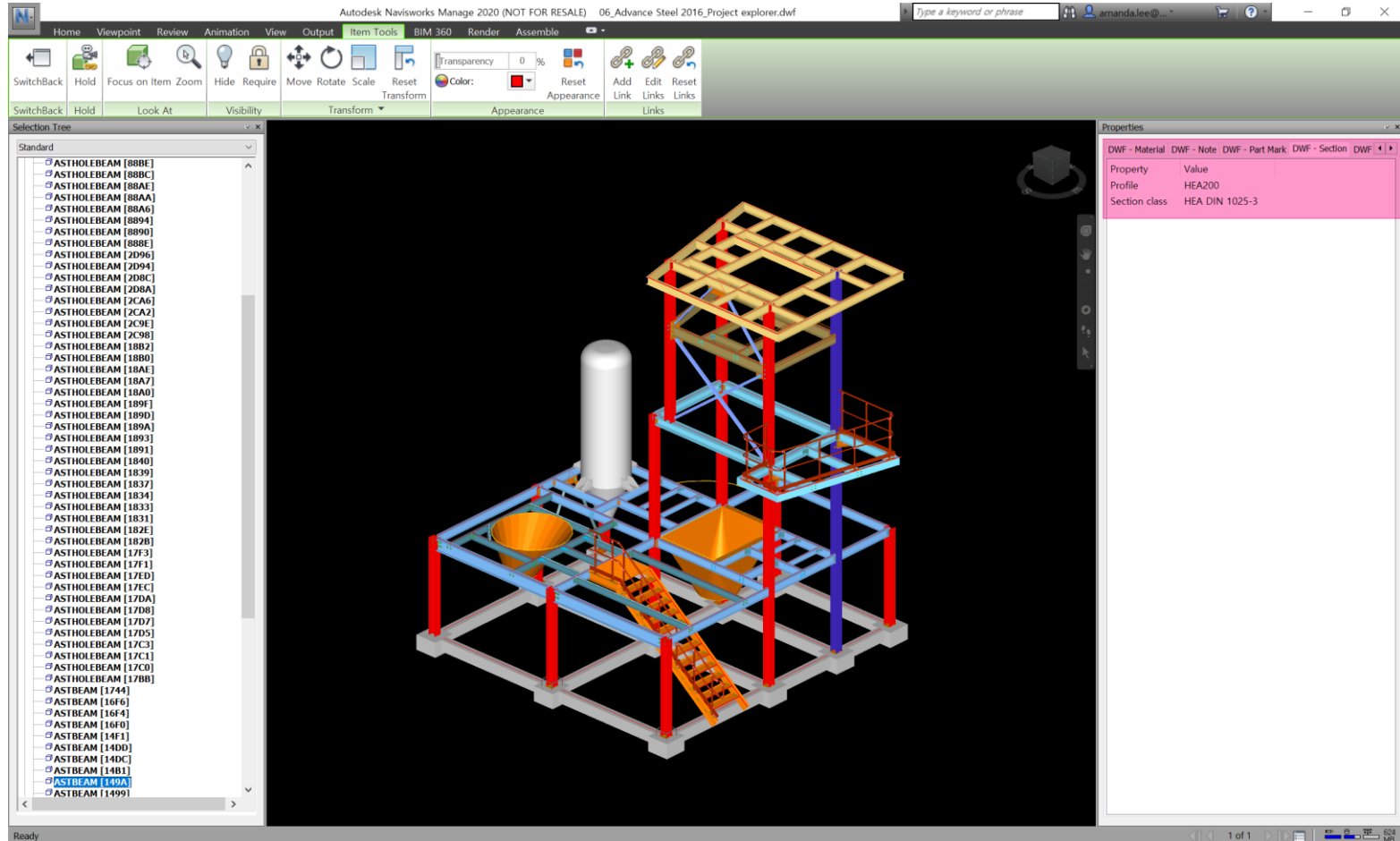
Advance Steel - Navisworks Interoperability



Advance Steel - Navisworks Interoperability



Advance Steel - Navisworks Interoperability

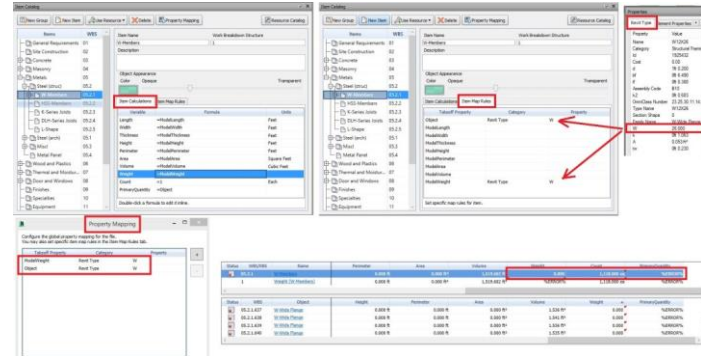
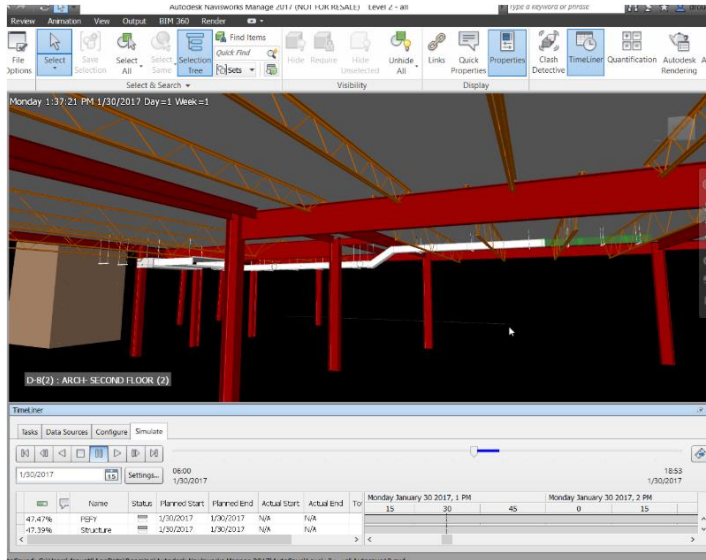


Advance Steel - Navisworks Interoperability

4D and 5D simulation in Navisworks

$$3D + \text{Clock} = 4D$$

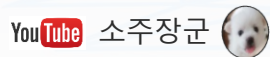
$$3D + \text{Clock} + \text{Calculator} = 5D$$



Dynamo Extension for Advance Steel

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Dynamo Extension for Advance Steel

Advance Steel adds in the computational design power of Dynamo to quickly generate complex structure using native Advance Steel beams and plates to greatly improve modelling productivity.

About Dynamo



쉽게 접근하기 어려운 텍스트 기반의 프로그래밍을 대신하여
시각적 프로그래밍 (노드 , 와이어) 도구를 제공하고 이를 사용하여
간단한 사용자 정의 프로그램을 만들고 활용할 수 있도록 지원하는
시각적 프로그래밍 도구



About Dynamo



This is Dynamo



DYNAMO
REVIT



Civil 3D



FORMIT



ALIAS
DESIGN



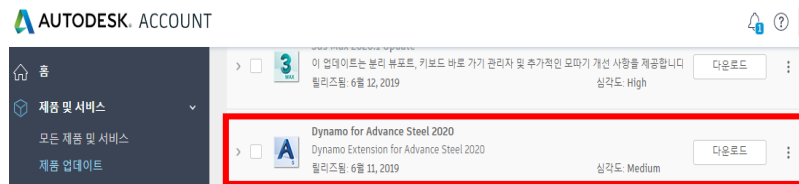
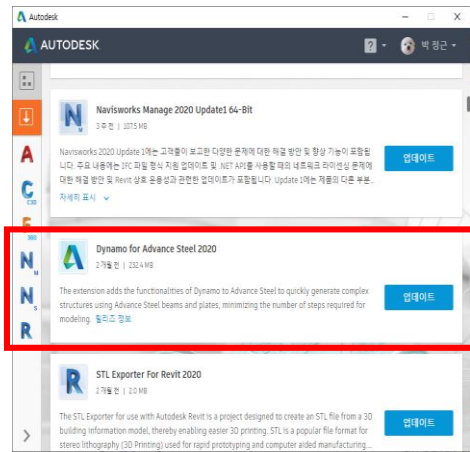
ADVANCE
STEEL

More coming soon!

About Dynamo

➤ DOWNLOAD

1. 오토데스크 어카운트 센터 : <https://accounts.autodesk.com>
2. 오토데스크 데스크탑 앱

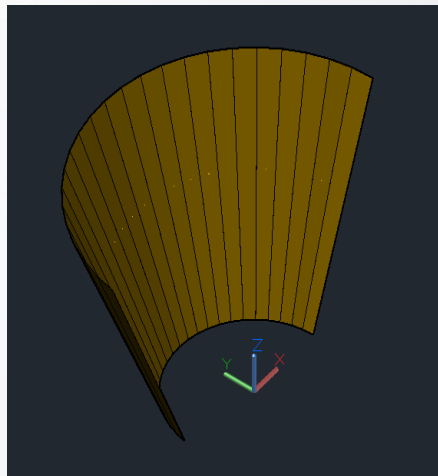




ADVANCE STEEL

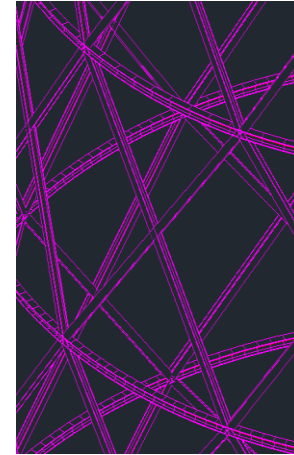
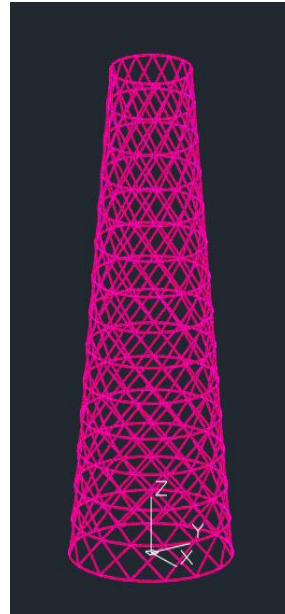
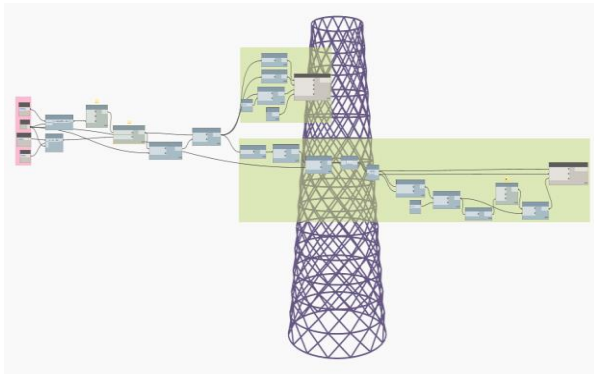
Dynamo Demo

✓ 다이나모를 활용한 판넬 작성



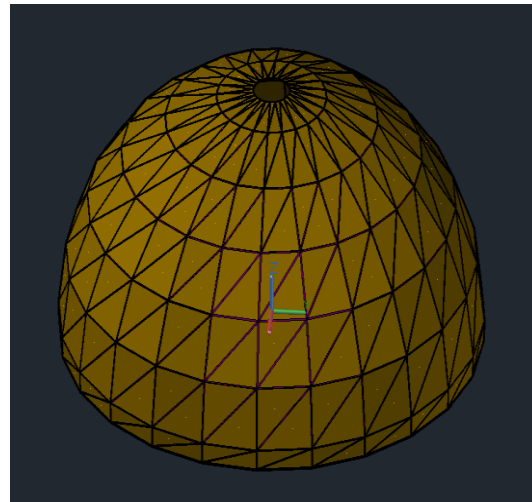
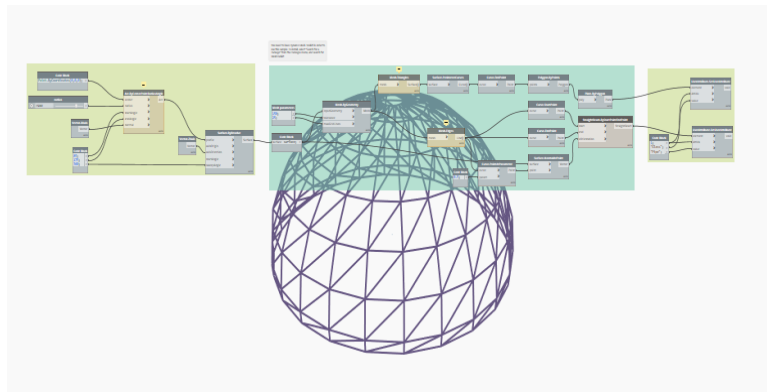
Sample

➤ CircularTower



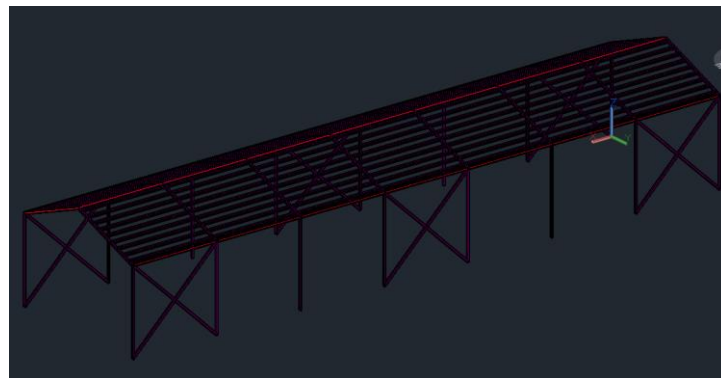
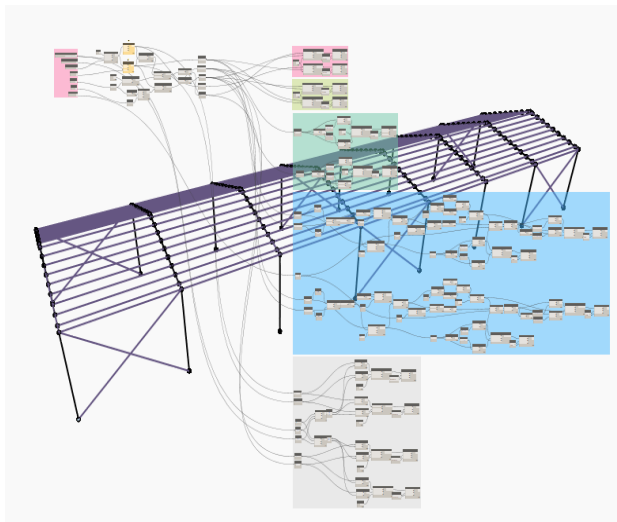
Sample

➤ Dome

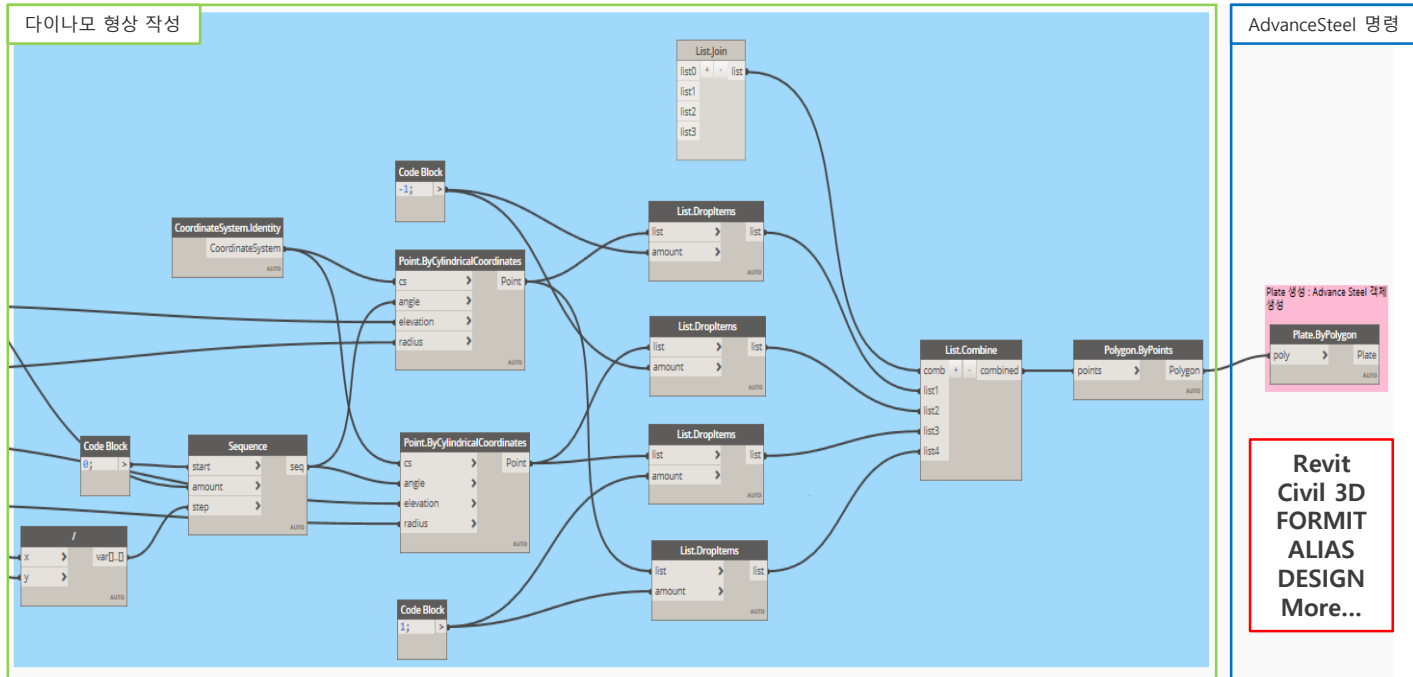


Sample

➤ PotralFrame



Dynamo works with other software





마무리...

Why Use Advance Steel and Dynamo ?

건축 디자인의 변화

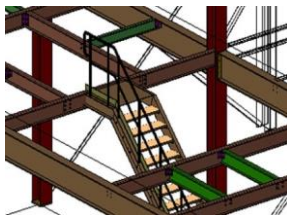
2D 에서 부터 3D BIM 그리고... 컴퓨팅 디자인

2D



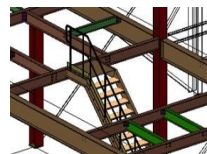
선을 활용

3D



형상을 활용

BIM

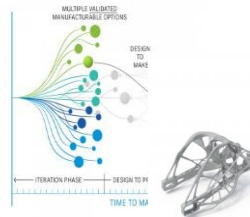


Grade	Web		X (Degree) D (mm)
	Y (Degree) E (mm)		
OG CuP	0		0.22
	0		1
OG CuP	0		0
	0		0

형상 및 다양한
정보를 활용

Computational Design

Autodesk Generative Design



컴퓨터 연산을
통한 디자인

Computational Design

Advance Steel : 철골 분야에 전문화된 BIM 기반의 컴퓨팅 설계 지원

2D

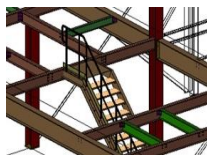
Advance Steel Based on

A AUTOCAD

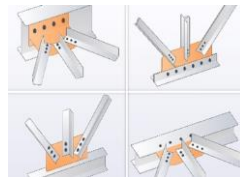
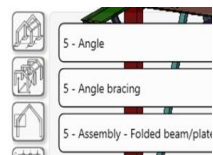


3D : Building Information Modeling

A AUTODESK®
ADVANCE STEEL



Grade	Web		X (Degree) D (mm)
	T (Degree) E (mm)		
08CuP	0		0.22
	0		1
08CuP	0		0
	0		0



Computational Design



Dynamo
Computational Design for BIM



DYNAMO
REVIT



Civil 3D



ADVANCE
STEEL



FORMIT



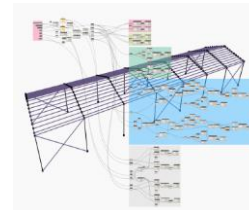
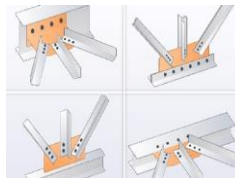
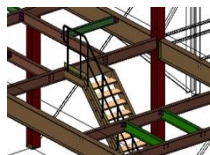
ALIAS
DESIGN

Why Use Advance Steel and Dynamo ?

Advance Steel : 철골 분야에 전문화된 BIM 기반의 컴퓨팅 설계 지원



철골 분야에 전문화된 2D 및 BIM 기반의 컴퓨팅 설계 디자인 도구



Generating GA Drawings using Advance Steel

Lee Kyung Mi

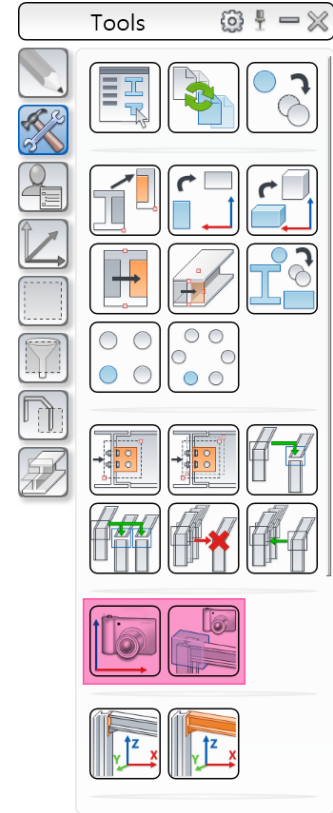
amanda.lee@sckcorp.co.kr

SCK



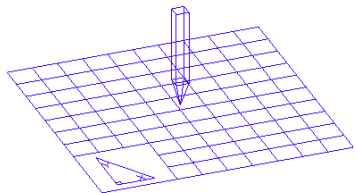
(주)상상진화
SANGSANG JINHWA

Camera



Camera Setting

카메라 구성 - Complete



Advance Steel Camera

Properties

Detail box

Display type

z-Viewport

☐ Front 500.00

☐ Rear 500.00

xy-Viewport

☒ Automatic

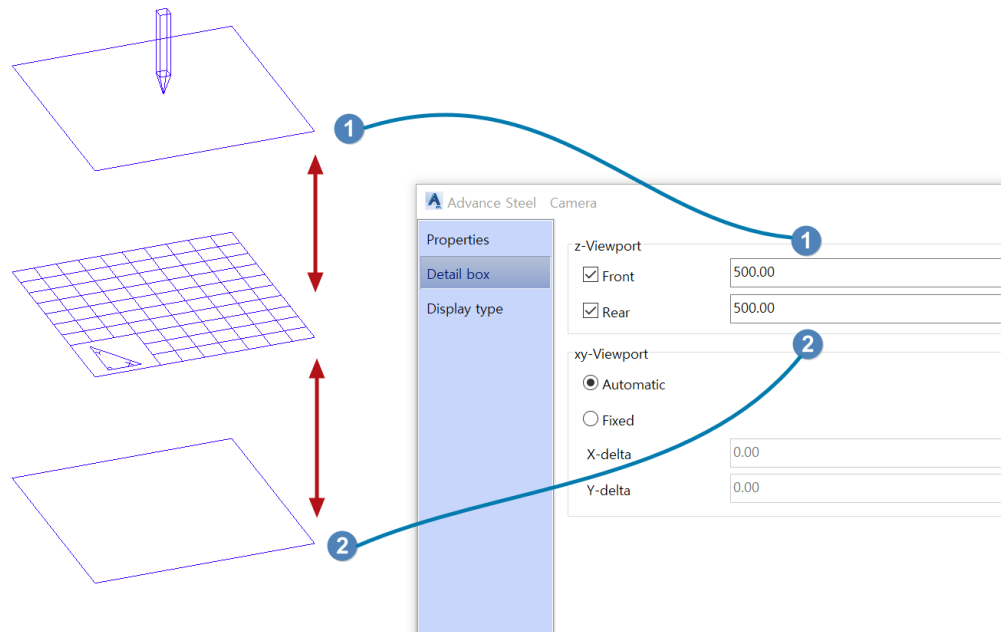
☐ Fixed

X-delta 0.00

Y-delta 0.00

Camera Setting

카메라 구성 - Complete Clipped in the Z (near, for or both)



Camera Setting

카메라 구성 - XY Clipped and/or Clipped in the Z (near, far or both)

