

midas GEN / DESIGN +

2026 (v1.1)

Release Note (June 2025)

Pre-processing

- Added New Cross-section to Database.
 - NB/T 10115-2018 (CH) : Cold-formed section
 - I-shape DB (3 new section) as per UNI
 - T-shape DB as per UNI
 - 8 new cross-section types as per CNS-2020
- Added new material DB.
 - Aluminum DB as per EN 2023
 - Timber DB as per EN 338
- Added new rebar DB.
 - Rebar Dia. and Material as per TS (Turkish Standard)
- Improved GTS & GEN Interface .
(Handling when the slope of spring stiffness is negative.)
- Copying of Load Profile table data for wind/earthquake
- **Added to Input Finishing Material Load**
- **Add Importing of Ground Motion Records from PEER Database**

Design

- [GEN/DESIGN+] Added Steel Design as per AISC 2022.
- Added 6 Design Codes to Shell Design
- Added RC Meshed Slab/Wall Design as per TWN-USD112.
- Added “Wall End Rebar Design Method by Member” feature in Conc. Design Parameters
- Added Load Combinations as per Thailand (2021).
- Improved Seismic Design as per EC8-3
- [DESIGN+] Improved GEN-DESIGN+ link.
(Automatically set to GEN's design and material code)

Add New Section and Material DB

Section Standard

Code Name	Detail
NB/T 10115-2018 (CH)	Cold formed section
UNI (IT&Euro)	I shape (3 sections)
	T shape
CNS-2020 (TW)	I-shape, L-type, C-type, T-type, Box, Pipe, Cold formed Channel

Material Standard

Code Name	Detail
EN-2023 (Euro)	Aluminum materials
EN 338, EN 14080 (Euro)	Timber materials (Structural timber, glulam)

Rebar Standard

Code Name	Detail
TS (Turkish Standard)	17 Diameters

Section Data

DB/User | Value | SRC | Combined | Tapered | Composite |

Section ID 1

H-Section

User DB CNS2020

Sect. Name

Get Data from

DB Name

Sect. Name

H 0

tw 0

tf1 0

B2 0

tf2 0

r1 0

r2 0

Cold Formed Channel

User DB NBT_10115-2018

Sect. Name

Get Data from

DB Name

Sect. Name

H 0

tw 0

tf1 0

B2 0

tf2 0

r1 0

r2 0

Material Data

General

Material ID 1

Name 5754 DT 110

Aluminum

Standard EC2023(A)

DB 5754 DT 110

Product

Concrete

Standard

DB

Type of Material

Isotropic

Orthotropic

Modulus of Elasticity 7.0000e+07 kN/m²

Poisson's Ratio 0.3

Thermal Coefficient 2.3000e-05 1/[C]

Weight Density 27 kN/m³

Use Mass Density 2.753 kN/m³/g

Material Data

General

Material ID 3

Name C24

Timber

Standard EN 338(T)

DB C14

Product

Concrete

Standard

DB

Type of Material

Isotropic

Orthotropic

Modulus of Elasticity 1.1000e+07 3.7000e+05

Thermal Coefficient 0.0000e+00 5.8000e-05

Weight Density 3.4335 kN/m³

Use Mass Density 0.42 kN/m³/g

Preferences

Environment

General

Design Code KDS 41 30 : 2022

Concrete

Design Code KDS 41 20 : 2022

Rebar

Material Code TS(RC)

Material DB B420C

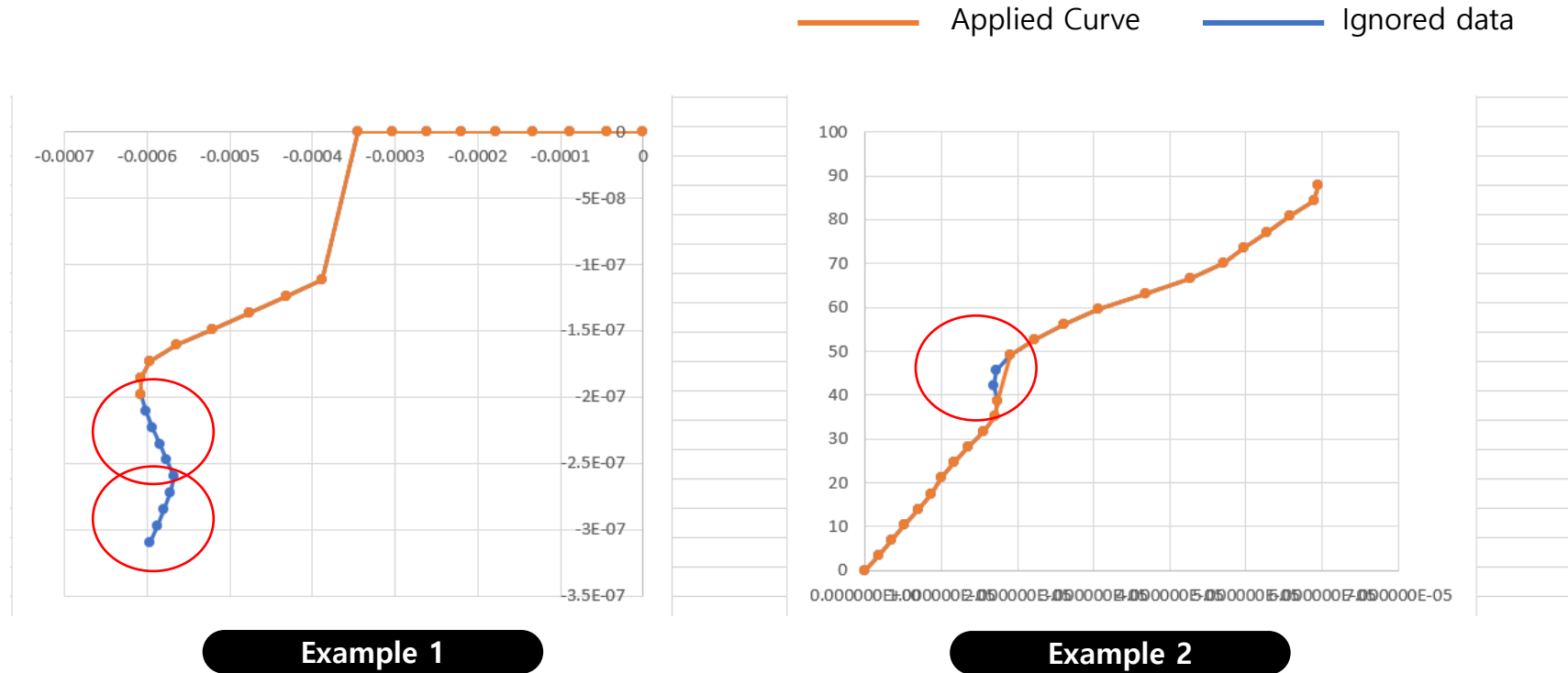
Rebar Information

Rebar Code TS

CHK	Name	Dia (m)	Area (m²)	Dia(Out) (m)	Weight (kN/m)
<input checked="" type="checkbox"/>	D6	0.0060	0.0000	0.0060	0.0022
<input type="checkbox"/>	D7	0.0070	0.0000	0.0070	0.0030
<input type="checkbox"/>	D8	0.0080	0.0001	0.0080	0.0040
<input type="checkbox"/>	D10	0.0100	0.0001	0.0100	0.0062
<input type="checkbox"/>	D12	0.0120	0.0001	0.0120	0.0089
<input type="checkbox"/>	D14	0.0140	0.0002	0.0140	0.0121
<input type="checkbox"/>	D16	0.0160	0.0002	0.0160	0.0158
<input type="checkbox"/>	D18	0.0180	0.0003	0.0180	0.0200
<input type="checkbox"/>	D20	0.0200	0.0003	0.0200	0.0247
<input type="checkbox"/>	D22	0.0220	0.0004	0.0220	0.0299
<input type="checkbox"/>	D24	0.0240	0.0005	0.0240	0.0355
<input type="checkbox"/>	D25	0.0250	0.0005	0.0250	0.0385
<input type="checkbox"/>	D26	0.0260	0.0005	0.0260	0.0417
<input type="checkbox"/>	D28	0.0280	0.0006	0.0280	0.0483
<input type="checkbox"/>	D32	0.0320	0.0008	0.0320	0.0631
<input type="checkbox"/>	D36	0.0360	0.0010	0.0360	0.0799

Improvement of GTS & GEN Interface

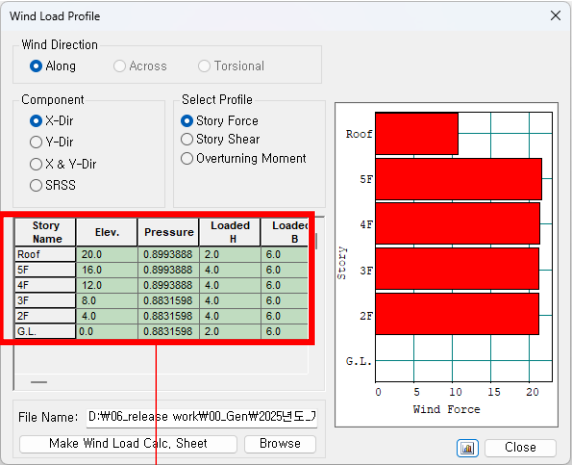
Handling when the slope of spring stiffness is negative



- There was a case where spring data with negative slope and deformation from GTS could not be loaded.
- Data that causes negative slope and deformation is ignored to generate a spring stiffness curve that can be imported into GEN.

Copying of table data for wind/earthquake Load Profile

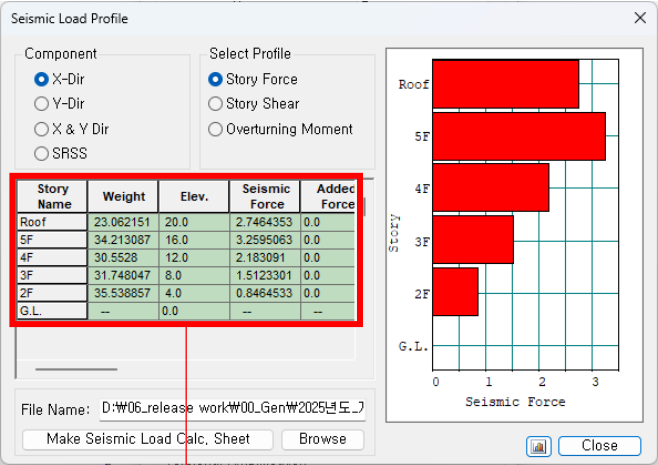
Wind Load



The Excel spreadsheet displays the copied wind load data. The data is as follows:

	Story Name	Elev.	Pressure	Loaded H	Loaded B	Wind Force	Added	Story	Force	Story	Shear	Overtur	g	Moment
1	Roof	20	1.480841	2	6	17.77009	0	17.77009	0	0	0	0	0	0
2	5F	16	1.480841	4	6	35.54017	0	35.54017	17.77009	71.08035				
3	4F	12	1.480841	4	6	34.28682	0	34.28682	53.31026	284.3214				
4	3F	8	1.376394	4	6	32.08796	0	32.08796	87.59707	634.7097				
5	2F	4	1.297603	4	6	30.49811	0	30.49811	119.685	1113.45				
6	G.L.	0	1.243907	2	6	0	0	--	150.1832	1714.182				

Static Seismic Load



The Excel spreadsheet displays the copied seismic load data. The data is as follows:

	Story Name	Weight	Elev.	Seismic F	Added	Story	Force	Story	Shear	Overtur	g	Accidental	Accidental	Inherent	T	Total	Torsion
1	Roof	23.06215	20	2.746435	0	2.746435	0	0	0	-0.3	0.823931	0	0.823931				
2	5F	34.21309	16	3.259506	0	3.259506	2.746435	10.98574	0	0.977852			0.977852				
3	4F	30.5528	12	2.183091	0	2.183091	6.005942	35.00951	0	0.654927			0.654927				
4	3F	31.74805	8	1.51233	0	1.51233	8.189033	67.76564	0	0.453699			0.453699				
5	2F	35.53886	4	0.846453	0	0.846453	9.701363	106.5711	0	0.253936			0.253936				
6	G.L.	--	0	--	--	--	10.54782	148.7624	--	--			--				

Add Feature to Input Finishing Material Load

Gen 2025 - [C:\Users\wyiseo\Downloads\Tutorial\App6_Pushover_2D RC Structure] - [MIDAS/Gen]

Finishing Material Loads

Load Case Name: DL

Load Group Name: Default

Options: ☒ Add ☐ Replace ☐ Delete

Covering Type: ☒ Envelop ☐ Fill ☐ Surround

Covering Range:

	Full	Half
Face 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Face 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Face 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Face 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Covering/Filling Property:

d : 0 m

Density : 0 kN/m³

Direction : Global Z

Scale Factor : -1

Apply Close

Input or modify the load due to the member's finishing, such as a fireproofing.

- Covering Type**
Specify the method of applying the covering (refer to the guide image).
- Covering Range**
Refer to the guide image to specify the range of covering material applied to each face of the element.
- Covering/Filling Property**
d: Thickness of the covering.
Density: Unit weight of the covering material.
- Direction**
Direction of the covering load application (choose from Global X, Y, or Z).
- Scale Factor**
Scale factor for increasing or decreasing the covering load.

Added Importing of Ground Motion Records from PEER Database

Midas GEN be able to read directly the ground motion database from PEER NGA.

Function Name
RSN3870_TOTTORI_HRS001EW (1) i

Import

Earthquake

Heel Drop

	Time (sec)	Function (g)
1	0.0100	-0.0002
2	0.0200	-0.0000
3	0.0300	0.0000
4	0.0400	0.0000
5	0.0500	-0.0000
6	0.0600	0.0000
7	0.0700	-0.0000
8	0.0800	0.0000
9	0.0900	-0.0000
10	0.1000	0.0000
11	0.1100	0.0000
12	0.1200	0.0000
13	0.1300	0.0000
14	0.1400	0.0000

Description
Generate Earthquake Response Spectrum...

Time Function Data Type
☒ Normalized Accel. ☐ Acceleration

Scale Factor
☒ Scale Factor 1 ☐ Maximum Value 0 g

열기

다운로드

다운로드 검색

구성 새 폴더

영일 - MIDAS

오늘

RSN3870_TOTTORI_HRS001EW (1) (1).at2 2025-06-25 오전 11:55 AT2 파일 452KB

CaptureScene 2025-06-25 오전 11:24 파일 폴더

Temp 2025-06-25 오전 11:19 파일 폴더

backup 2025-06-25 오전 11:18 파일 폴더

Design_Plus_2025_(v1.1)_Installer 2025-06-25 오전 9:43 파일 폴더

Gen_2025_(v1.2)_US_Installer 2025-06-25 오전 9:38 파일 폴더

어제

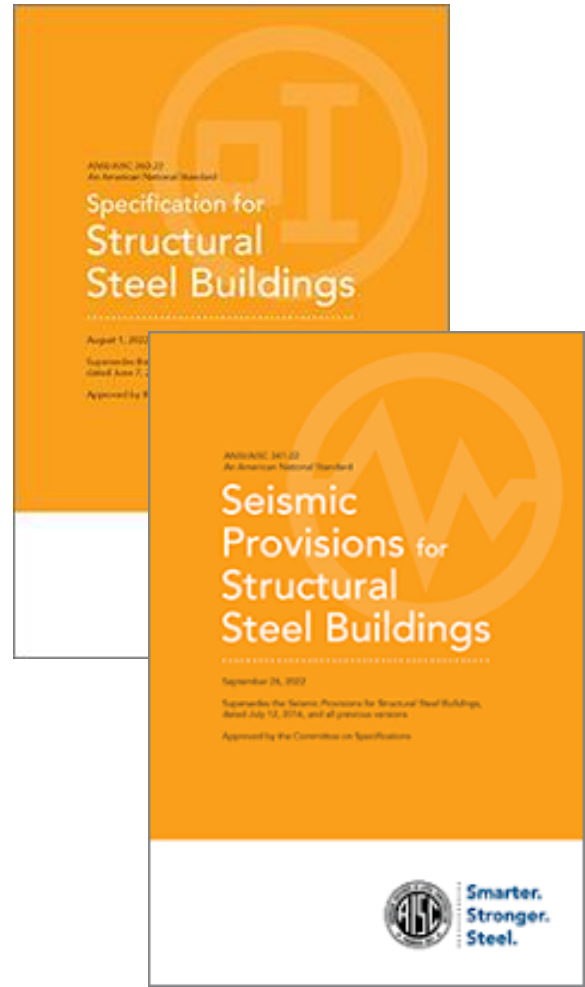
Tutorial 2025-06-24 오후 3:55 파일 폴더

이번 주 초

파일 이름(N): RSN3870_TOTTORI_HRS001EW (1) (1).at2

SGS or THD or AT2 File (*.sgs, *.thd, *.at2)

[GEN/DESIGN+] Steel design as per AISC-LRFD2022 & AISC-ASD2022



Gen 2025 - [C:\Users\yiseo\Downloads\App1_Steel(import)] - [MIDAS/Gen]

View Structure Node/Element Properties Boundary Load Analysis Results Pushover Design Seismic Performance Query Tools Help

AISC(16th)-LRFD22

ACI318M-14

SSRC79

Eurocode3-1-3:06

Section for Design

Steel/Cold Formed Steel Design

Steel/Cold Formed Steel Design

Concrete Design

SRC Design

Perform Batch Design

General Design Parameter General Steel Design RC Design Meshed Design

Start Page MIDAS/Gen

CH K MEMB SECT SEL

Material Fy

Len Lb Lz

158 221 S01, W24x76 12.0000 12.0000

47 223 S03, W18x55 6.00000 6.00000

62 225 S05, W24x103 10.8000 10.8000

49 243 S03A, W24x76 6.00000 6.00000

94 501 C5, W14x132 6.00000 6.00000

305 502 C5, W14x99 5.00000 5.00000

95 551 C5A, W14x132 6.00000 6.00000

307 552 C5A, W12x65 5.00000 5.00000

97 601 C6, W14x176 6.00000 6.00000

309 602 C6, W14x176 5.00000 5.00000

857 0.194 A572-50 344738 5.00000 5.00000

Unit: kN, m

Primary Sorting Option

Change... Update...

SECT MEMB

Code: AISC(16th)-LRFD22

Sort by

Connect Model View

Select All Unselect All Re-calculation

Graphic... Detail... Summary... Close

Result View Opt

All OK

Table Result

1. Design Information

Design Code AISC(16th)-LRFD22

Unit System kN, m

Member No 97

Material A572-50 (Fy = 344.78, Es = 199948204)

Section Name OS (No.901)

Member Length 6.00000

2. Member Forces

Axial Force Fxx = -2178.8 (LSD: 2, POS:2)

Bending Moments My = -457.07, Mz = 16.5320

End Moments My1 = 203.530, My2 = -457.07 (for Lb)

Shear Forces Fyy = -46.779 (LSD: 6, POS:1)

3. Design Parameters

Unbraced Lengths Ly = 6.00000, Lz = 6.00000, Lb = 6.00000

Effective Length Factors Ky = 1.00, Kz = 1.00

Moment Factor / Bending Coefficient Cb = 1.00

4. Checking Results

Axial Strength Pr / Pc = 2178.80 / 8055.35 = 0.270 < 1.000

Bending Strength My / Mcx = 457.07 / 1568.70 = 0.291 < 1.000

Combined Strengths (Compression-Bending) Pr / Pc = 0.27 > 0.20

Shear Strength Vry / Rvy = 0.007 < 1.000

Torsion Strength T1 / Tc = 0.0000 / 0.0000 = 0.000 < 1.000

Detail Report

1. Check slenderness ratio of axial compression member

2. Check width-thickness ratio of flange (BTR)

3. Check depth-thickness ratio of web (DTR)

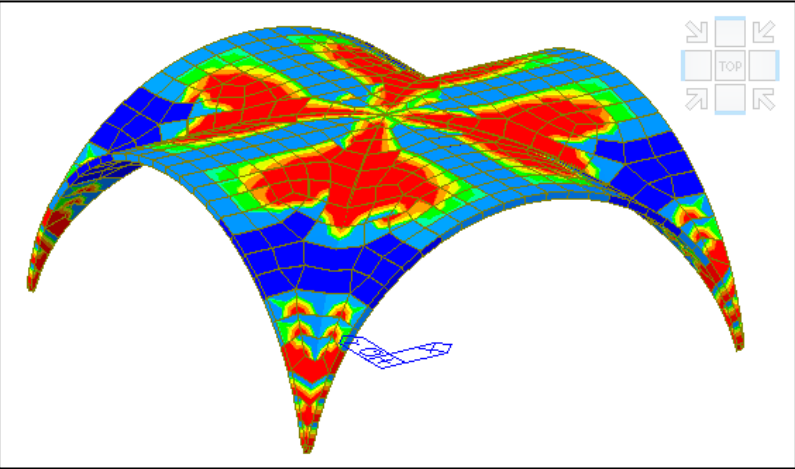
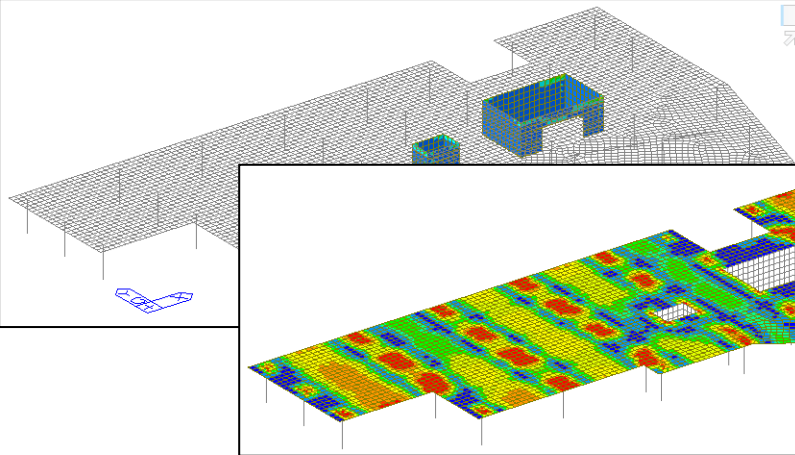
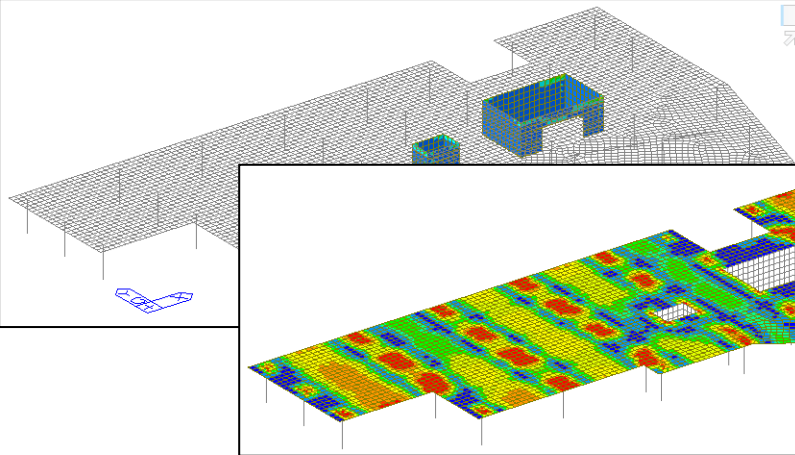
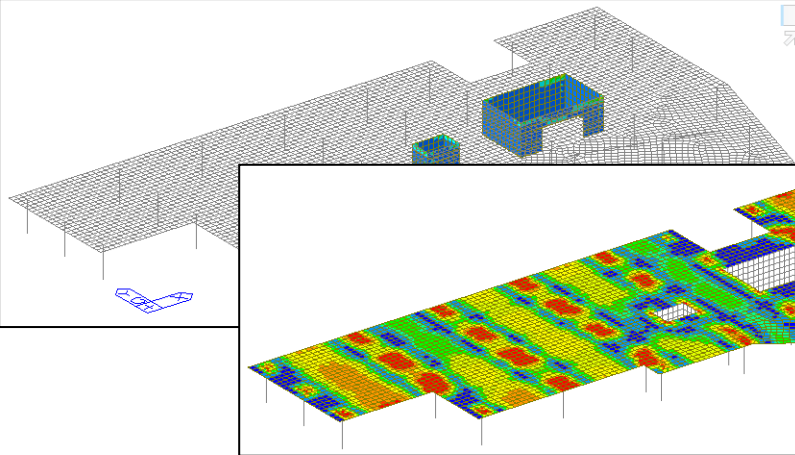
4. Calculate Flexural Buckling Stress (Fnl)

5. Calculate axial compressive strength (phiPn)

6. Check flexural strength about major axis (X)

Graphic Report

Added Design Codes to Meshed Member Design

Items	Detail		
RC Shell Design	<div><p>Add a design as per ACI318-14, ACI318-19, NSR-10, TWN-USD112, NTC-DCEC(2023) and NSCP 2015</p><div><div><div>ACI318M-19</div><div>SSRC79</div></div><div><div>RC Design</div><div>SRC Design</div></div><div><div>Meshed Design</div><div></div></div><div><div>Serviceability Load Combination Type...</div><div>Slab/Wall/Shell Load Combinations...</div><div>Design Criteria for Rebars...</div><div>Slab/Wall/Shell Rebars for Checking...</div><div>Slab Serviceability Parameters...</div><div>Meshed Design Tables</div><div>Slab Flexural Design...</div><div>Slab Flexural Checking...</div><div>Slab Shear Checking...</div><div>Slab Serviceability Checking...</div><div>Cracked Section Analysis Control...</div><div>Perform Cracked Section Analysis</div><div>Wall Design...</div><div>Wall Checking...</div><div>Shell Flexural Design...</div><div>Shell Flexural Checking...</div><div>Shell Shear Checking...</div></div></div><div><div><div>midas Gen POST-PROCESSOR</div><div>SHELL DESIGN</div><div><div>F12@300, F12@100</div><div>F12@300, F10@100</div><div>F12@300, F12@150</div><div>F12@300, F12@200</div><div>F12@300, F10@150</div><div>F12@300, F10@200</div><div>F12@300, F12@300</div><div>F12@300, F12@400</div><div>F12@300, F10@300</div><div>F12@300</div><div>None</div></div></div></div></div> <tr><td>RC Meshed Slab/Wall Design</td><td><div><p>Add a design as per TWN-USD112</p><div><div><div>NSCP 2015</div><div>SSRC79</div></div><div><div>RC Design</div><div>SRC Design</div></div><div><div>Meshed Design</div><div></div></div><div><div>Serviceability Load Combination Type...</div><div>Slab/Wall/Shell Load Combinations...</div><div>Design Criteria for Rebars...</div><div>Slab/Wall/Shell Rebars for Checking...</div><div>Slab Serviceability Parameters...</div><div>Meshed Design Tables</div><div>Slab Flexural Design...</div><div>Slab Flexural Checking...</div><div>Slab Shear Checking...</div><div>Slab Serviceability Checking...</div><div>Cracked Section Analysis Control...</div><div>Perform Cracked Section Analysis</div><div>Wall Design...</div><div>Wall Checking...</div><div>Shell Flexural Design...</div><div>Shell Flexural Checking...</div><div>Shell Shear Checking...</div></div></div><div><div><div>WALL DESIGN</div><div><div>1.96369e+00</div><div>1.78518e+00</div><div>1.60666e+00</div><div>1.42014e+00</div><div>1.24962e+00</div><div>1.07111e+00</div><div>8.92588e-01</div></div></div><div><div>POST-PROCESSOR</div><div>SLAB DESIGN</div><div><div>#5@101</div><div>#5@152</div><div>#4@101</div><div>#5@203</div><div>#5@152</div><div>#5@204</div><div>#4@203</div><div>#5@406</div><div>#4@204</div><div>#4@406</div><div>None</div></div></div></div></div></td></tr>	RC Meshed Slab/Wall Design	<div><p>Add a design as per TWN-USD112</p><div><div><div>NSCP 2015</div><div>SSRC79</div></div><div><div>RC Design</div><div>SRC Design</div></div><div><div>Meshed Design</div><div></div></div><div><div>Serviceability Load Combination Type...</div><div>Slab/Wall/Shell Load Combinations...</div><div>Design Criteria for Rebars...</div><div>Slab/Wall/Shell Rebars for Checking...</div><div>Slab Serviceability Parameters...</div><div>Meshed Design Tables</div><div>Slab Flexural Design...</div><div>Slab Flexural Checking...</div><div>Slab Shear Checking...</div><div>Slab Serviceability Checking...</div><div>Cracked Section Analysis Control...</div><div>Perform Cracked Section Analysis</div><div>Wall Design...</div><div>Wall Checking...</div><div>Shell Flexural Design...</div><div>Shell Flexural Checking...</div><div>Shell Shear Checking...</div></div></div><div><div><div>WALL DESIGN</div><div><div>1.96369e+00</div><div>1.78518e+00</div><div>1.60666e+00</div><div>1.42014e+00</div><div>1.24962e+00</div><div>1.07111e+00</div><div>8.92588e-01</div></div></div><div><div>POST-PROCESSOR</div><div>SLAB DESIGN</div><div><div>#5@101</div><div>#5@152</div><div>#4@101</div><div>#5@203</div><div>#5@152</div><div>#5@204</div><div>#4@203</div><div>#5@406</div><div>#4@204</div><div>#4@406</div><div>None</div></div></div></div></div>
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Wall design (Vertical rebar arrangement) method can be set for each wall individually.



Add load combinations as per Thailand (2021)

Automatic Generation of Load Combinations

Option

☒ Add ☐ Replace

Code Selection

☐ Steel ☒ Concrete ☐ SRC

☐ Cold Formed Steel ☐ Footing

☐ Aluminum

Design Code : Thailand(2021)

☐ Scale Up of Response Spectrum Load Case

Scale Up Factor : 1

Factor	Load Case

Add

Modify

Delete

Manipulation of Construction Stage Load Case

ST : Static Load Case

CS : Construction Stage Load Case

☒ ST Only ☐ CS Only ☐ ST+CS

☐ Consider Orthogonal Effect

Set Load Cases for Orthogonal Effect...

☒ 100 : 30 Rule

☐ SRSS(Square-Root-of-Sum-of-Squares)

Generate Additional Load Combinations

☐ for Special Seismic Load

☐ for Vertical Seismic Forces

Factors for Seismic Design...

☐ Will Execute Construction Stage Analysis

☐ Consider Losses for Prestress Load Cases

Transfer Stage : 1

Service Load Stage : 1

Define Factors

OK

Cancel

Steel Design (LRFD) / RC Design (SDM)

- Only Structure Case
 - 1.4D
 - 1.40D+1.70L
- Wind Load Case
 - 0.75(1.40D+1.70L)+1.60W
 - 0.90D+1.60W
- Earthquake/Seismic case
 - 0.75(1.4D+1.7L)+1.00EQ
 - 0.90D+1.00EQ
- Earth Pressure/Vertical Water Pressure Load/Fluid Pressure
 - 1.40D+1.70LL+1.70EP
 - 0.9D+1.7EP
 - 1.4D+1.7LL+1.4FP
 - 0.90D+1.4FP
 - 0.75(1.40D+1.40T+1.70L)
- Thermal Force Case
 - 1.40D+1.40T

Steel Design (ASD) / RC Design (WSD)

- Only Structure Case
 - 1.00D
 - 1.00D+1.00L
- Wind Load Case
 - 1.00D+0.75L+0.75W
 - 0.60D+1.00W
- Earthquake/Seismic case
 - 1.00D+0.70EQX
 - 1.00D+0.75L+0.525EQ
 - 0.60D+0.70EQ
- Earth Pressure/Vertical Water Pressure Load/Fluid Pressure and Thermal Force Case
 - 1.00(D+L+WP+FP+T)

Improved Seismic Design as per EC8-3

Added the option to consider no confinement effect (Apply $\alpha=0$)

- Calculation of θ_{um} in Safety Verification Check
- Calculation of θ_{um} in Cyclic Shear Resistance Check
- Calculation of θ_{um} in Nonlinear Hinge Curve

A.3.2.2 Limit State of near collapse (NC)

(1) The value of the total chord rotation capacity (elastic plus inelastic part) at ultimate, θ_u , of concrete members under cyclic loading may be calculated from the following expression:

$$\theta_{um} = \frac{1}{\gamma_{cl}} 0,016 \cdot (0,3^v) \left[\frac{\max(0,01;\omega)}{\max(0,01;\omega)} f_c \right]^{0,225} \left(\min \left(9; \frac{L_v}{h} \right) \right)^{0,35} 25^{\alpha \rho_s \frac{f_{yw}}{f_c}} (1,25^{100 \rho_s}) \quad (A.1)$$

α is the confinement effectiveness factor, that may be taken equal to:

$$\alpha = \left(1 - \frac{s_h}{2b_o} \right) \left(1 - \frac{s_h}{2h_o} \right) \left(1 - \frac{\sum b_i^2}{6h_o b_o} \right) \quad (A.2)$$

Safety Verification

Set Safety Verification Parameters

Pushover Load Case: PL

Step for Demand: ☒ Damage Limitation (DL), ☒ Significant Damage (SD), ☐ Near Collapse (NC), ☐ User Defined

Step for Capacity: ☐ Damage Limitation (DL), ☒ Significant Damage (SD), ☐ Near Collapse (NC)

Confidence Factor: 1.0

Component: Ductile Failure ☒ My ☒ Mz, Brittle Failure ☒ Fy ☒ Fz

☐ Not Consider Confinement Effect

Cyclic Shear Resistance

Set Cyclic Shear Resistance Parameters

Pushover Load Case: PL

Step for Demand: ☒ Damage Limitation (DL), ☐ Significant Damage (SD), ☐ Near Collapse (NC), ☐ User Defined

Cyclic Shear Resistance Table Type: ☒ Show Selected Elements, ☐ Show All Elements

Confidence Factor: 1.0

☒ Not Consider Confinement Effect

☐ Print Calculation Report

Nonlinear Hinge Curve

Directional Properties of Pushover Hinge : Eurocode 8 : 2004

Input Method: ☒ Auto-Calculation, ☐ User Input

Shape of FEMA Curve: ☒ General Type, ☐ Perfect Plastic Type

Strength Loss: ☒ Yes, ☐ No

Total Strength Loss at Point E, -E: ☐ No, ☒ Figure

Yield Rotation Analysis Option: ☐ Dy Update, ☒ Du Update

☒ Confinement Effect

Properties: Type: ☐ Symmetric, ☒ Asymmetric

Class of cross section: ☐ Auto, ☒ Class1, ☐ Class2, ☐ Class3

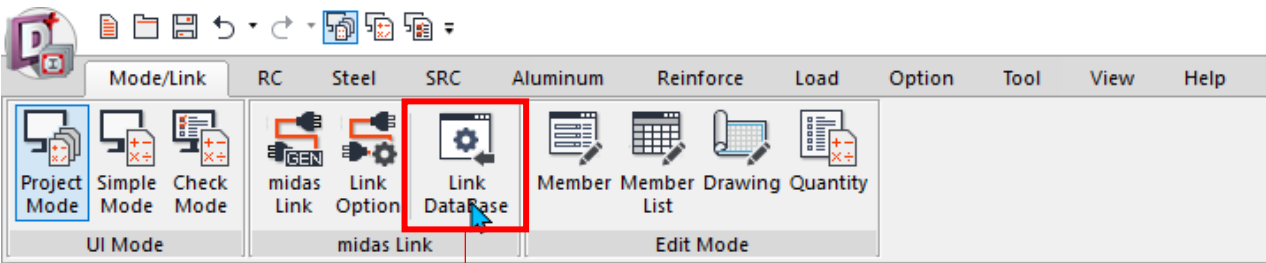
Primary Curve:

Compliance Criteria: Damage Limitation (DL) 1 +DY 1 +DY [rad], Significant Damage (SD) 0,75 +DU 0,75 +DU [rad], Near Collapse (NC) 1 +DU 1 +DU [rad]

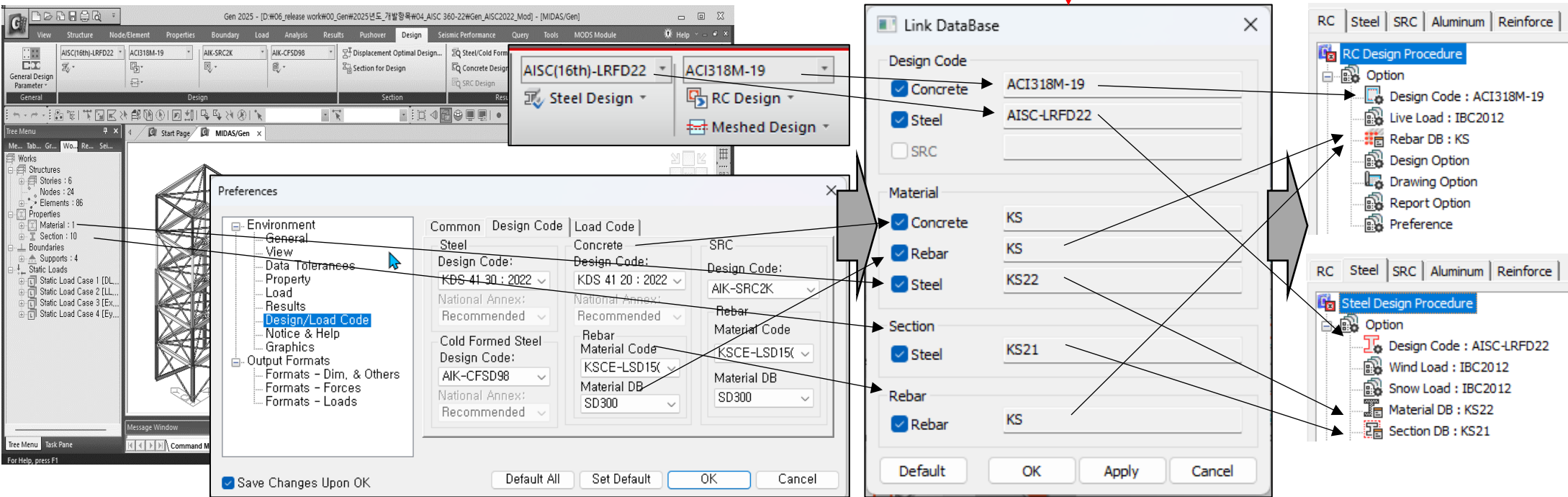
Initial Stiffness: ☐ 6EI/L, ☐ 3EI/L, ☐ 2EI/L, ☒ User (+) 1 (-) 1 kN·m

[DESIGN+] Improvement of GEN-DESIGN+ link

Automatically set the design and material code of midas GEN to DESIGN+



The “Link Database” function loads design setting information from GEN to configure the design environment in DESIGN+.



Thanks

