

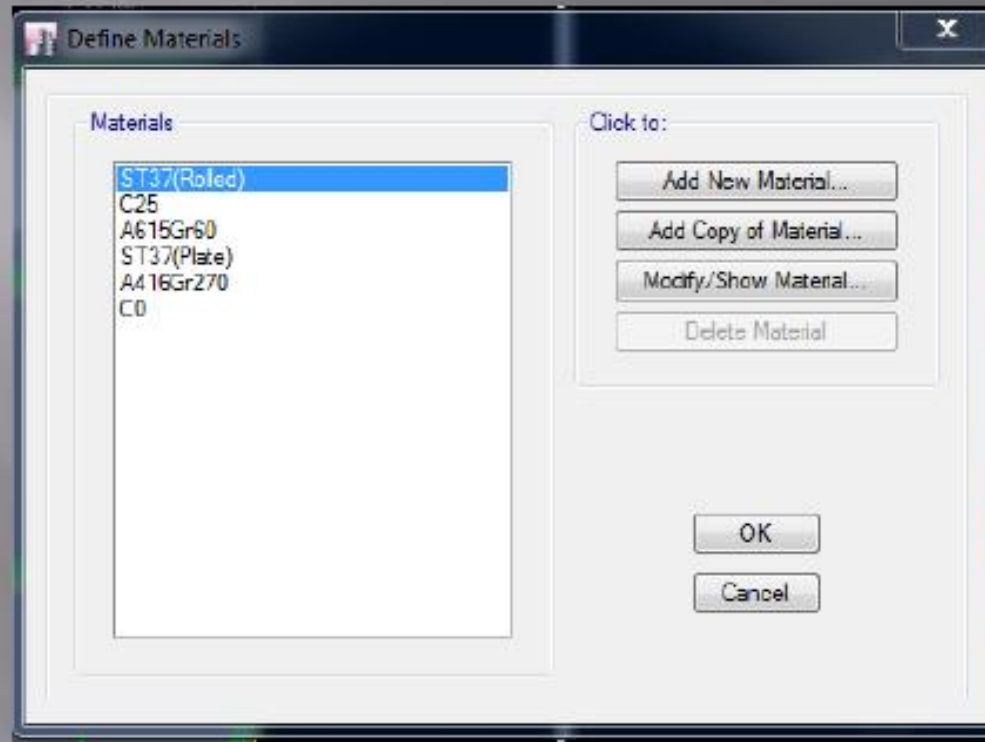


په نام خداوند مهربان
کتابخانه

پروژه فولاد

فاطمه مشهدی زاده

دکتر زاهدی



↑
متریال مصرفی

Shell Uniform Load Set Data

Uniform Load Set Name: Roof

Load Set Loads

Load Pattern	Load Value (kgf/m ²)
D	500
LRoof	150
S	126
MASS	50
EZ	105

Note: Loads are in the gravity direction.

Buttons: Add, Delete, OK, Cancel

بار های سطحی بام

Shell Assignment - Uniform Load Set

Shell Uniform Load Set Data

Uniform Load Set Name: stores

Load Set Loads

Load Pattern	Load Value (kgf/m ²)
D	480
Lr0.5	200
LPart	100
EZ	100.8

Add

Delete

Note: Loads are in the gravity direction.

OK Cancel

بارهای سطحی طبقات

ضریب زلزله در راستای

X

Seismic Load Pattern - User Defined

Direction and Eccentricity

X Dir Y Dir

X Dir + Eccentricity Y Dir + Eccentricity

X Dir - Eccentricity Y Dir - Eccentricity

Ecc. Ratio (All Diaph.)

Overwrite Eccentricities

Factors

Base Shear Coefficient, C

Building Height Exp., K

Story Range

Top Story

Bottom Story

OK Cancel

ضریب زلزله در راستای

Y

Seismic Load Pattern - User Defined

Direction and Eccentricity

X Dir Y Dir

X Dir + Eccentricity Y Dir + Eccentricity

X Dir - Eccentricity Y Dir - Eccentricity

Ecc. Ratio (All Diaph.)

Overwrite Eccentricities

Factors

Base Shear Coefficient, C

Building Height Exp., K

Story Range

Top Story

Bottom Story

Beam Information

Object ID

Story	Label	Unique Name
Story3	B2	74

GUID: f1914312-204d-4385-80c4-2ed989d15685

Object Data

Geometry Assignments Loads Design

- Load Pattern: D
 - Uniform Force 700 kgf/m
- Open Structure Wind Parameters
 - Wind Load Overwrite Program Determined

Uniform Force
Frame uniform force load.

OK Cancel

بار خطی دیوار طبقات

Beam Information

Object ID

Story	Label	Unique Name
Story4	B2	44

GUID: f620db49-e3b9-4c4a-ae95-231caac60ee5d

Object Data

Geometry Assignments Loads Design

- Load Pattern: D
 - Uniform Force 350 kgfm
- Load Pattern: MASS
 - Uniform Force 50 kgfm
- Open Structure Wind Parameters
 - Wind Load Overwrite Program Determined

Uniform Force
Frame uniform force load.

OK Cancel

بار خطی دیوار بام

Load Combination Data

General Data

Load Combination Name: (S-2)D

Combination Type: Linear Add

Notes: Modify/Show Notes...

Auto Combination: No

Define Combination of Load Case/Combo Results

Load Name	Scale Factor
D	1.2
Lnr	1
Lr1.0	1
Lr0.5	0.5
LPart	1
S	0.2

Add

Delete

OK Cancel

Load Combination Data

General Data

Load Combination Name: (S-1)D

Combination Type: Linear Add

Notes: Modify/Show Notes...

Auto Combination: No

Define Combination of Load Case/Combo Results

Load Name	Scale Factor
D	1.2
Lnr	1
Lr1.0	1
Lr0.5	0.5
LPart	1
S	0.2

Add

Delete

OK Cancel

نمونه هایی از ترکیب بارها

P-Delta

Preset P-Delta Options

Automation Method

None

Non-iterative - Based on Mass

Iterative - Based on Loads

Iterative P-Delta Load Case

Load Pattern	Scale Factor
D	1.2
D	1.2
Lnr	1
LPart	1
Lr0.5	1
Lr1.0	1
S	0.2

Relative Convergence Tolerance 0.0001

OK Cancel

Add Modify Delete



گیردار کردن پایه ستون



تعیین درجات آزادی

Modal Case Data

General

Modal Case Name: Modal Design...

Modal Case SubType: Eigen Notes...

Exclude Objects in this Group: Not Applicable

Mass Source: Ms Src 1

P-Delta/Nonlinear Stiffness

Use Preset P-Data Settings: Iterative based on loads Modify/Show...

Use Nonlinear Case (Loads at End of Case NOT Included)

Nonlinear Case:

Loads Applied

Advanced Load Data Does NOT Exist Advanced

Other Parameters

Maximum Number of Modes: 12

Minimum Number of Modes: 1

Frequency Shift (Center): 0 cyc/sec

Cutoff Frequency (Radius): 0 cyc/sec

Convergence Tolerance: 1E-09

Allow Auto Frequency Shifting

OK Cancel



	Item	Value
01	Design Code	AISC 360-10
02	Multi-Response Case Design	Step-by-Step - All
03	Framing Type	OMF
04	Seismic Design Category	C
05	Importance Factor	1
06	Design System Rho	1
07	Design System Sds	1.05
08	Design System R	5
09	Design System Omega0	3
10	Design System Cd	4
11	Design Provision	LRFD
12	Analysis Method	Direct Analysis
13	Second Order Method	General 2nd Order
14	Stiffness Reduction Method	Tau-b Variable
15	Add Notional load cases into seismic combos?	No
16	Beta Factor	1.3
17	BetaOmega Factor	1.6
18	Phi (Resistance)	0.9

Item Description

The selected design code. Subsequent design is based on this selected code.

آیین نامه

Explanation of Color Coding for Values

Blue: Default Value

Black: Not a Default Value

Red: Value that has changed during the current session

Set To Default Values

Reset To Previous Values



Overwrite Frame Design Procedure



- Steel Frame Design
- Concrete Frame Design
- Composite Beam Design
- Composite Column Design
- Steel Joist Design
- No Design
- Default

OK

Cancel