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: midas Gen Text(MGT) File.
: Date : 2021/9/7
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*VERSION
9.0.5
*UNIT : Unit System
: FORCE, LENGTH, HEAT, TEMPER
KN, M, KCAL, C
*STRUCTYPE : Structure Type
: iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV,
TEMPER, bALIGNBEAM, bALIGNSLAB, bROTGRID
0, 1, 2, NO, YES, 9.806, 0, YES, NO, NO
*REBAR-MATL-CODE : Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01(RC), SD400, KS01(RC), SD400
*NODE : Nodes
: iNO, X, Y, Z
1, 0, 0, 0
2, 7.45, 0, 0
3, 13.45, 0, 0
4, 19.4, 0, 0
5, 0, 6.55, 0
6, 7.45, 6.55, 0
7, 13.45, 6.55, 0
8, 19.4, 6.55, 0
9, 0, 13, 0
10, 7.45, 13, 0
11, 13.45, 13, 0
12, 19.4, 13, 0
13, 0, 0, 4.9
14, 7.45, 0, 4.9
15, 13.45, 0, 4.9
16, 19.4, 0, 4.9
17, 0, 6.55, 3.2
18, 7.45, 6.55, 3.2
19, 13.45, 6.55, 3.2
20, 19.4, 6.55, 3.2
21, 0, 13, 3.2
22, 7.45, 13, 3.2
23, 13.45, 13, 3.2
24, 19.4, 13, 3.2
25, 0, 6.55, 4.9
26, 7.45, 6.55, 4.9
27, 13.45, 6.55, 4.9
28, 19.4, 6.55, 4.9
29, 19.4, -3.60822483003176e-016, 3.2
30, 22.35, 13, 0
31, 22.35, 13, 4.9
32, 19.4, 13, 4.9
33, 22.35, 0, 0
34, 22.35, 0, 4.9
35, 22.35, -3.60822483003176e-016, 3.2
36, 22.35, 13, 3.2
37, 0, 13, 1
38, 7.45, 13, 1
39, 13.45, 13, 1
40, 19.4, 13, 1
41, 13.45, 0, 3.2
42, 0, 0, 3.2
*ELEMENT : Elements
: iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB,
: Frame Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2,
bLMT : Comp/Tens Truss
: iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID, LCAXIS
: Planar Element
: iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8
: Solid Element
1, BEAM, 1, 10010, 1, 42, 0, 0
2, BEAM, 1, 10020, 2, 14, 0, 0
3, BEAM, 1, 10030, 3, 41, 90, 0
4, BEAM, 1, 10030, 4, 29, 90, 0
5, BEAM, 1, 10020, 5, 17, 90, 0
6, BEAM, 1, 10040, 6, 18, 0, 0
7, BEAM, 1, 10010, 7, 19, 0, 0
8, BEAM, 1, 10010, 8, 20, 0, 0
9, BEAM, 1, 10010, 9, 37, 0, 0
10, BEAM, 1, 10020, 10, 38, 0, 0
11, BEAM, 1, 10010, 11, 39, 90, 0
12, BEAM, 1, 10030, 12, 40, 90, 0
13, BEAM, 1, 20020, 17, 18, 0, 0
14, BEAM, 1, 20020, 18, 19, 0, 0
15, BEAM, 1, 20020, 19, 20, 0, 0
16, BEAM, 1, 20020, 21, 22, 0, 0
17, BEAM, 1, 20020, 22, 23, 0, 0
18, BEAM, 1, 20020, 23, 24, 0, 0
19, BEAM, 1, 20010, 17, 21, 0, 0
21, BEAM, 1, 20010, 19, 23, 0, 0
22, BEAM, 1, 20010, 20, 24, 0, 0
23, BEAM, 1, 10020, 17, 25, 90, 0
24, BEAM, 1, 10040, 18, 26, 0, 0
25, BEAM, 1, 10010, 19, 27, 0, 0
26, BEAM, 1, 10010, 20, 28, 0, 0
27, BEAM, 1, 20030, 13, 25, 0, 0
28, BEAM, 1, 20030, 14, 26, 0, 0
29, BEAM, 1, 20030, 15, 27, 0, 0
30, BEAM, 1, 20030, 16, 28, 0, 0
31, BEAM, 1, 20040, 13, 14, 0, 0
32, BEAM, 1, 20040, 14, 15, 0, 0
33, BEAM, 1, 20040, 15, 16, 0, 0
34, BEAM, 1, 20040, 25, 26, 0, 0
35, BEAM, 1, 20040, 26, 27, 0, 0
36, BEAM, 1, 20040, 27, 28, 0, 0
37, BEAM, 1, 20030, 29, 20, 0, 0
38, BEAM, 1, 10030, 29, 16, 90, 0
39, BEAM, 1, 10020, 30, 36, 0, 0
40, BEAM, 1, 20010, 28, 32, 0, 0
41, BEAM, 1, 10030, 24, 32, 90, 0
42, BEAM, 1, 10020, 36, 31, 0, 0
49, BEAM, 1, 20050, 31, 34, 0, 0
51, BEAM, 1, 20020, 31, 32, 0, 0
52, BEAM, 9999, 99999, 34, 16, 0, 0
53, BEAM, 1, 10020, 33, 35, 0, 0
54, BEAM, 1, 10020, 35, 34, 0, 0
55, WALL, 1, 1, 30, 33, 35, 36, 1,
1, 0, 0, 0
56, BEAM, 1, 20010, 18, 22, 0, 0
57, BEAM, 1, 10010, 37, 21, 0, 0
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58, BEAM, 1, 10020, 38, 22, 0, 0
59, BEAM, 1, 10010, 39, 23, 90, 0
60, BEAM, 1, 10030, 40, 24, 90, 0
61, BEAM, 1, 10030, 41, 15, 90, 0
62, BEAM, 1, 10010, 42, 13, 0, 0
63, TRUSS, 1102, 1, 40, 11, 0, 0
64, TRUSS, 1102, 1, 12, 39, 0, 0
65, TRUSS, 1102, 2, 38, 9, 0, 0
66, TRUSS, 1102, 2, 10, 37, 0, 0
67, TRUSS, 1102, 3, 17, 1, 0, 0
68, TRUSS, 1102, 3, 5, 42, 0, 0
69, TRUSS, 1102, 3, 3, 29, 0, 0
70, TRUSS, 1102, 3, 41, 4, 0, 0
71, TRUSS, 1101, 4, 6, 19, 0, 0
72, TRUSS, 1101, 4, 18, 7, 0, 0
73, TRUSS, 1101, 5, 25, 18, 0, 0
74, TRUSS, 1101, 5, 26, 17, 0, 0
75, TRUSS, 1101, 6, 26, 19, 0, 0
76, TRUSS, 1101, 6, 27, 18, 0, 0
77, TRUSS, 1101, 7, 27, 20, 0, 0
78, TRUSS, 1101, 7, 28, 19, 0, 0
79, TRUSS, 1101, 8, 28, 24, 0, 0
80, TRUSS, 1101, 8, 32, 20, 0, 0
81, TRUSS, 1101, 9, 14, 6, 0, 0
82, TRUSS, 1101, 10, 26, 2, 0, 0
83, WALL, 1, 1, 4, 33, 34, 16, 1,
1, 0, 0
*MATERIAL : Material
: iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT,
bMASS, DAMPRATIO, [DATA1] : STEEL, CONC,
ALUMINUM, USER
: iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT,
bMASS, DAMPRATIO, [DATA2], [DATA2] : SRC
: [DATA1] : 1, STANDARD, CODE/PRODUCT, DB, USEELAST,
ELAST
: [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
: [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz,
Pyz, DEN, MASS : Orthotropic
: [DATA2] : 1, STANDARD, CODE/PRODUCT, DB, USEELAST,
ELAST or 2, ELAST, POISN, THERMAL, DEN, MASS
: 1, CONC, C18, 0, 0, C, NO, 0.05, 1,
KS01(RC), KCI-2012, C18, 0, 0, C, NO, 0.05, 1,
1101, USER, Full Strut, C18, 0, 0, 0, 0, 2, 4.2000e+005,
0.25, 0.0000e+000, 0, 0, 0, 0, 2, 1.2400e+006,
1102, USER, Partial Strut, 0, 0, 0, 0, 2, 1.2400e+006,
0.25, 0.0000e+000, 0, 0, 0, 0, 2, 1.2400e+006,
9999, USER, Dummy, 0, 0, 0, 0, 2, 1.2400e+006,
2.3798e+009, 0.167, 1.0000e-005, 0, 0, 0, 0, 2, 1.2400e+006,
*MATL-COLOR
: iMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B,
bBLEND, FACT
1, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
1101, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
1102, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
9999, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
*SECTION : Section
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1],
[DATA2] : 1st line - DB/USER
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1, ...,
D8, iCEL : 1st line - VALUE
: AREA, ASy, ASz, lxx, lyy, lzz
: 2nd line
CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy,
Cz : 3rd line
Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz
: 4th line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST, DEN,
POIS, POIC, SF, THERMAL : 1st line - SRC
D1, D2, [SRC]
: 2nd line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB,
NAME1, NAME2, D1, D2 : 1st line - COMBINED
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12,
D13, D14, D15, D21, D22, D23, D24
: iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR,
izVAR, STYPE : 1st line - TAPERED
DB, NAME1, NAME2
: 2nd line(STYPE=DB)
: [DIM1], [DIM2]
: 2nd line(STYPE=USER)
D11, D12, D13, D14, D15, D16, D17, D18
: 2nd line(STYPE=VALUE)
AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
: 3rd line(STYPE=VALUE)
CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1,
PERI_IN1, Cy1, C1 : 4th line(STYPE=VALUE)
Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2
: 5th line(STYPE=VALUE)
D21, D22, D23, D24, D25, D26, D27, D28
: 6th line(STYPE=VALUE)
AREA2, ASy2, ASz2, lxx2, lyy2, lzz2
: 7th line(STYPE=VALUE)
CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2,
PERI_IN2, Cy2, C2 : 8th line(STYPE=VALUE)
Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2
: 9th line(STYPE=VALUE)
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
: 1st line - COMPOSITE-B
Hw, tw, B1, Bf1, B2, Bf2, tf2
: 2nd line
: [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~4)
: 3rd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh : 4th line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
: 1st line - COMPOSITE-I
Hw, tw, B1, Bf1, B2, Bf2, tf2
: 2nd line
: [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3)
: 3rd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh : 4th line
: iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
: 1st line - COMPOSITE-TUB
Hw, tw, B1, Bf1, B2, Bf2, tf2, Bf3, tfp
: 2nd line
: [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3)
: 3rd line
SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh : 4th line
: [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8,
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D9, D10
; [DATA2]: CCSHAPE or iCEL or iN1, iN2
; [SRC]: 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6,
D7, D8, D9, D10, iN1, iN2
; [DIM1], [DIM2]: D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET1]: OFFSET, iCENT, iREF, iHORZ, iUSER, iVERT, iUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, iUSER, iUSER,
iVERT, iUSER, iUSER
; [SHAPE-NUM]: SHAPE-NUM, POS, STIFF-NUM1, STIFF-NUM2,
STIFF-NUM3, STIFF-NUM4
; [STIFF-SHAPE]: SHAPE-NUM, for(SHAPE-NUM) { NAME, SIZE1-8
; [STIFF-POS]: STIFF-NUM, for(STIFF-NUM) { SPACING, iSHAPE,
bCALC }
1, DBUSER, Strut 760x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.76, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
2, DBUSER, Strut 910x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.91, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
3, DBUSER, Strut 890x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.89, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
4, DBUSER, Strut 930x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.93, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
5, DBUSER, Strut 1350x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.35, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
6, DBUSER, Strut 1080x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.08, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
7, DBUSER, Strut 1130x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.13, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
8, DBUSER, Strut 1230x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.23, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
9, DBUSER, Strut 1120x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.12, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
10, DBUSER, Strut 1450x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.45, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
10000, DBUSER, COL, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
10010, DBUSER, C1(500x500), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.5, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10020, DBUSER, C2(400x500), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.4, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10030, DBUSER, C3(500x600), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10040, DBUSER, C4(400x450), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.45, 0.4, 0, 0, 0, 0, 0, 0, 0, 0
20000, DBUSER, Girder, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
20010, DBUSER, RG1, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20020, DBUSER, RG2, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20030, DBUSER, RG3, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20040, DBUSER, RG4, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20050, DBUSER, RG5, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
30000, DBUSER, Beam, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
99999, DBUSER, Dummy, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.15, 0.15, 0, 0, 0, 0, 0, 0, 0, 0
*SECT-COLOR: W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B,
bBLEND, FACT
1, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
2, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
3, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
4, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
5, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
6, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
7, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
8, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
9, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10000, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10010, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10020, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10030, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
10040, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20000, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20010, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20020, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20030, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20040, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
20050, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
30000, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
99999, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1],
[DATA2]
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1, ...,
D8, iCEL
; iSEC-COLOR: AREA, ASy, ASz, lxx, lyy, lzz
; 2nd line
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy,
Cz
; 3rd line
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz
; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST, DEN,
POIS, POIC, SF, THERMAL; 1st line - SRC
; D1, D2, [SRC]
; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB,
NAME1, NAME2, D1, D2
; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12,
D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR,
izVAR, STYPE
; 1st line - TAPERED
; DB, NAME1, NAME2
; 2nd line(STYPE=DB)
; [DIM1], [DIM2]
; 2nd line(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18
; 2nd line(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1,
PERI_IN1, Cy1, Cz1
; 4th line(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2
; 5th line(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27, D28
; 6th line(STYPE=VALUE)

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; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2
; 7th line(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2,
PERI_IN2, Cy2, Cz2
; 8th line(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2
; 9th line(STYPE=VALUE)
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
; 1st line - COMPOSITE-B
; Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2
; 2nd line
; [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~4)
; 3rd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh
; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
; 1st line - COMPOSITE-I
; Hw, tw, B1, tf1, B2, tf2
; 2nd line
; [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~2)
; 3rd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh
; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
; 1st line - COMPOSITE-TUB
; Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2, Bf3, ttp
; 2nd line
; [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3)
; 3rd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh
; 4th line
; [DATA1]: 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8,
D9, D10
; [DATA2]: CCSHAPE or iCEL or iN1, iN2
; [SRC]: 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6,
D7, D8, D9, D10, iN1, iN2
; [DIM1], [DIM2]: D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET1]: OFFSET, iCENT, iREF, iHORZ, iUSER, iVERT, iUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, iUSER, iUSER,
iVERT, iUSER, iUSER
; [SHAPE-NUM]: SHAPE-NUM, POS, STIFF-NUM1, STIFF-NUM2,
STIFF-NUM3, STIFF-NUM4
; [STIFF-SHAPE]: SHAPE-NUM, for(SHAPE-NUM) { NAME, SIZE1-8
; [STIFF-POS]: STIFF-NUM, for(STIFF-NUM) { SPACING, iSHAPE,
bCALC }
1, DBUSER, Strut 760x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.76, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
2, DBUSER, Strut 910x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.91, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
3, DBUSER, Strut 890x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.89, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
4, DBUSER, Strut 930x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.93, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
5, DBUSER, Strut 1350x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.35, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
6, DBUSER, Strut 1080x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.08, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
7, DBUSER, Strut 1130x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.13, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
8, DBUSER, Strut 1230x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.23, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
9, DBUSER, Strut 1120x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.12, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
10, DBUSER, Strut 1450x300, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 1.45, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
10000, DBUSER, COL, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
10010, DBUSER, C1(500x500), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.5, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10020, DBUSER, C2(400x500), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.4, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10030, DBUSER, C3(500x600), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.5, 0, 0, 0, 0, 0, 0, 0, 0
10040, DBUSER, C4(400x450), CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.45, 0.4, 0, 0, 0, 0, 0, 0, 0, 0
20000, DBUSER, Girder, CC, 0, 0, 0, 0, 0, 0, YES,
NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
20010, DBUSER, RG1, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20020, DBUSER, RG2, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.6, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20030, DBUSER, RG3, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20040, DBUSER, RG4, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
20050, DBUSER, RG5, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.8, 0.3, 0, 0, 0, 0, 0, 0, 0, 0
30000, DBUSER, Beam, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.01, 0.01, 0, 0, 0, 0, 0, 0, 0, 0
99999, DBUSER, Dummy, CC, 0, 0, 0, 0, 0, 0, 0,
YES, NO, SB, 2, 0.15, 0.15, 0, 0, 0, 0, 0, 0, 0, 0
*THICKNESS: Thickness
; iTHK, NAME, TYPE, bSAME, THIK-IN, THIK-OUT, bOFFSET,
OFFTYPE, VALUE; TYPE=VALUE
; iTHK, TYPE, SUBTYPE, RPOS, WEIGHT
; TYPE=STIFFENED, SUBTYPE=VALUE
; SHAPE, THIK-IN, THIK-OUT, HU, HL
; for yz section
; SHAPE, THIK-IN, THIK-OUT, HU, HL
; for xz section
; iTHK, TYPE, SUBTYPE, RPOS, PLATETHIK
; TYPE=STIFFENED, SUBTYPE=USER
; bRIB {, SHAPE, DIST, SIZE1, SIZE2, ..., SIZE6}
; for yz section
; bRIB {, SHAPE, DIST, SIZE2, SIZE2, ..., SIZE6}
; for xz section
; iTHK, TYPE, SUBTYPE, RPOS, PLATETHIK, DBNAME
; TYPE=STIFFENED, SUBTYPE=DB
; bRIB {, SHAPE, DIST, SNAME}
; for yz section
; bRIB {, SHAPE, DIST, SNAME}
; for xz section
; 1, VALUE, 300, YES, 0.3, 0, NO, 0, 0
*THIK-COLOR
; iTHK, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B,
bBLEND, FACT
1, 128, 0, 128, 255, 0, 0, 0, 255, 0, NO, 0.5
*STLDCASE: Static Load Cases
; LCNAME, LCTYPE, DESC
; DL, L,
; LL, L,

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; [CSA-S6-00] ; line 2 bSPECIAL, PHI-C, PHI-S, KIND

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-0.96, 1, -0.96, 0, 0, 0, 0, NO, 0, 0, NO,
51, BEAM, UNLOAD, GZ, NO, NO, aDir[1], , , 0, -0.96,
1, -0.96, 0, 0, 0, 0, , NO, 0, 0, NO,

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52. BEAM      , UNILoad, GZ, NO , NO, aDir[1], . . . , 0, -0.96,
1, -0.96, 0, 0, 0, 0, NO, 0, 0, NO,
: End of data for load case [DL] -----
*FLOADTYPE    : Define Floor Load Type
: NAME, DESC      : 1st line
: LCNAME1, FLOAD1, bSBU1, ..., LCNAME8, FLOAD8, bSBU8 : 2nd line
지붕,
DL, -4.9, YES, LL, -1, NO
*FLOAD-COLOR
: NAME, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B,
bBLEND, FACT1
지붕, 166, 202, 240, 166, 202, 240, 166, 202, 240, YES, 0.25
*FLOORLOAD    : Floor Loads
: LTNAME, iDIST, ANGLE, iSBEAM, SBANG, SBUW, DIR, bPROJ,
DESC, bEX, bAL, GROUP, NODE1, ..., NODEn : iDIST=1,2
: LTNAME, iDIST, DIR, bPROJ, DESC, GROUP, NODE1, ..., NODEn
: iDIST=3,4
: iDIST 1=One Way, 2=Two Way, 3=Polygon-Centroid,
4=Polygon-Length
지붕, 2, 0, 0, 0, GZ, NO, , NO, NO, , 21, 17, 20, 24
지붕, 2, 0, 0, 0, GZ, NO, , NO, NO, , 25, 13, 16, 28
지붕, 2, 0, 0, 0, GZ, NO, , NO, NO, , 34, 16, 32, 31
*MEMBER      : Member
: iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
1, 53, NO, 54
2, 39, NO, 42
*LOADCOMB    : Combinations
: NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE,
nLCOMTYPE, nSEISTYPE : line 1
: : ANAL1, LCNAME1, FACT1, ...
: from line 2
NAME=cLCB1, CONC, STRENGTH, 0, 0, 1.4(D), 0, 0, 0
ST, DL, 1.4
NAME=cLCB2, CONC, STRENGTH, 0, 0, 1.2(D) + 1.6(L), 0, 0, 0
ST, DL, 1.2, ST, LL, 1.6
NAME=cLCB3, CONC, SERVICE, 0, 0, SERV : (D), 0, 0, 0
ST, DL, 1
NAME=cLCB4, CONC, SERVICE, 0, 0, SERV : (D) + (L), 0, 0, 0
ST, DL, 1, ST, LL, 1
*BLDG-CTRL   : Building Control Data
: bBASE, LEVEL, bBEDROCK, BEDROCKLEVEL, bMASS, bSSFR,
bSTORMDUL, bSRTH, iSRTHOPT, [EccenRatio], bLATFLEX : line 1
: LCNAME1, FACT1, LCNAME2, FACT2, ...
: : from line 2
: [EccenRatio] : bCENTER, bCENTER=NO
: [EccenRatio] : bCENTER, XDLC, YDLC, USE
: : bCENTER=YES,
USE=MASS
: [EccenRatio] : bCENTER, XDLC, YDLC, USE
: : bCENTER=YES,
USE=AXIAL
: [EccenRatio] : bCENTER, XDLC, YDLC, USE, SLCX, SLCY
: : bCENTER=YES,
USE=SHEAR
YES, 0, NO, 0, NO, YES, NO, NO, 0, NO, , , AXIAL, YES
*LC-COLOR    : Diagram Color for Load Case
: ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN),
iB2(MIN), iR3(MAX), iG3(MAX), iB3(MAX)
ST, DL, 163, 160, 255, 93, 255, 87, 210, 210
ST, LL, 255, 255, 255, 85, 192, 0, 0, 128, 57
CBC, cLCB1, 146, 0, 255, 0, 157, 192, 255, 0, 192
CBC, cLCB2, 0, 192, 192, 255, 192, 160, 0, 192, 128
CBC, cLCB3, 160, 255, 255, 192, 128, 0, 255, 128, 0
CBC, cLCB4, 255, 87, 128, 0, 128, 255, 192, 72, 0
*EIGEN-CTRL  : Eigenvalue Analysis Control
: TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX, FRMIN, FRMAX,
bSTRUM : TYPE=EIGEN
: TYPE, bINCNL, iGNUM
: TYPE=RITZ(line 1)
: : KIND1, CASE1/GROUND1, iNOG1, ...
: TYPE=RITZ(from line2)
LANCZOS, 12, 20, 1, 1e-010, NO, 0, 0, NO
*DGN-MATL    : Modify Steel(Concrete) Material
: iMAT, TYPE, MNAME, [DATA1]
: STEEL
: iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT,
LONG : CONC
: iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]
: : SRC
: iMAT, TYPE, MNAME, [DATA5]
: STEEL(None) & KSCE-ASD05
: [DATA1] : 1, DB, CODE, NAME or 2, ELAST, POISN, FU, FY1,
FY2, FY3, FY4
: : FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
: [DATA2] : 1, DB, CODE, NAME or 2, FC, CHK, LAMBDA, bFCI,
FCI
: [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1, FY2, FY3,
FY4
: : FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
: [DATA4] : 1, DB, CODE, NAME or 2, FC
: [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5, AL6,
AL7, AL8, AL9, AL10
: : MIN1, MIN2, MIN3
: [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
1, CONC, C18, 1, KS01(RC), SD240, SD240, . . . , 12600, NO,
0, 0, NO, 1, NO, 0, KS01(RC), SD240, SD240, . . . , 12600, NO,
0, 0
*SEISMIC-EVALUATION-METHOD : Seismic Evaluation Method
: METHOD, PERFORM LEVEL, RESIST SYSTEM, ZONE, CLASS,
M-FACTOR, REINFORCEMENT, PHIL V, SHEAR STR(LN/MF/PO),
K1 AUTOUSER(LN/MF/PO), K1(LN/MF/PO), CONS STRUT
: EFF DEPTH(LN/MF/PO), PM METHOD(LN/MF), EFF MASONRY
KISTEC2019, CP, RC M Frame, 1, S4, 1.33, Other, 0.6,
KISTEC2019, AUTO, 0, KISTEC2019, AUTO, 0, KISTEC2019, AUTO,
0, NO
AUTO, 0.8h, AUTO, 0.8h, AUTO, 0.8h, M/P, M/P, P, P, NO
*SEISMIC-EVALUATION-CONCRETE-MATERIAL : Seismic
Evaluation - Concrete Material
: MATL_KEY, DEFAULT_VALUE, METHOD(6), STR_MODE
: : line 1
: [KISTEC2013]: [TEST] DEFAULT, Fce, Conc_Factor,
Fye(Main), Fye(Sub), Rebr_Factor : line 2
: [KISTEC2013]: [CONS_DOC] DEFUALT, Fck, Conc_Factor, Year,
Matl, Redu, Fy(Main), Fy(Sub), Rebr_Factor : line 2
: [KISTEC2013]: [DEFT_STR] TIME_FRAME
: : line 2
: [MOE2018]: [TEST] DEFAULT, Fce, Conc_Factor, Fye(M),
Fye(S), Rebr_Factor, Fck, Fye(M), Fye(S) : line 2
: [MOE2018]: [CONS_DOC] DEFUALT, Fck, Conc_Factor, Year,

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Matl, Redu, Fy(Main), Fy(Sub), Rebr_Factor : line 2
[MOE2018]: [DEFT_STR] TIME_FRAME
: : line 2
: [RESULT] PRE(6), 1ST(6), 2ND(6)
: : line 3
MatlK=1, NO, DEF_STR, DEF_STR, DEF_STR, DEF_STR,
DEF_STR, DEF_STR, AUTO
YES, 0, 1.2, 0, 0, 1.25, YES, 0, 1.2, 0~9y, GOOD, 1, 0, 0, 1.25,
1971~1987y
15000, 18000, 240000, 300000, 240000, 300000, 15000, 18000,
240000, 300000, 240000, 300000, 15000, 18000, 240000, 300000,
240000, 300000
*SEISMIC-EVALUATION-MASONRY-MATERIAL : Seismic
Evaluation - Masonry Material
: MATL_KEY, DEFAULT_VALUE, METHOD(2), STR_MODE
: : line 1
: [RESULT] : line 2 LNEV(6)
: [RESULT] : line 3 MFAC(6)
: [RESULT] : line 4 PSOV(6)
MatlK=1101, NO, NORMAL, GOOD, AUTO
4100, 5330, 70, 91, 140, 182
4100, 5330, 70, 91, 140, 182
4100, 5330, 70, 91, 140, 182
MatlK=1102, NO, GOOD, GOOD, AUTO
6200, 8060, 140, 182, 190, 247
6200, 8060, 140, 182, 190, 247
6200, 8060, 140, 182, 190, 247
*SEISMIC-EVALUATION-METHOD(ETC) : Seismic Evaluation
Method(etc)
: USE_HOOK
NO
*SEISMIC-EVALUATION-MASONRY-INFILL-STRUT : Masonry
Infill Strut
: iKEY, NAME, DECS, iType, dLm, dHm, dTm, dOpeningArea,
dBending
1, MA1, . . . 0, 5.95, 1, 0.3, 0, 0.35
2, MA2, . . . 0, 7.45, 1, 0.3, 0, 0.35
3, MA3, . . . 0, 6.55, 3.2, 0.3, 0, 0.35
4, MA4, . . . 0, 7.45, 3.2, 0.3, 0, 0.35
5, MA5, . . . 0, 5.95, 3.2, 0.3, 0, 0.35
6, MA10, . . . 1, 6, 3.2, 0.3, 0, 0.35
7, MA11, . . . 1, 7.45, 1.7, 0.3, 0, 0.35
8, MA12, . . . 1, 6, 1.7, 0.3, 0, 0.35
9, MA13, . . . 1, 5.95, 1.7, 0.3, 0, 0.35
10, MA14, . . . 1, 6.45, 1.7, 0.3, 0, 0.35
11, MA15, . . . 1, 6.55, 4.9, 0.3, 0, 0.35
*SEISMIC-EVALUATION-ASSIGN-MASONRY-INFILL-STRUT :
Assign Masonry Infill Strut
: iKEY, iMSISK, iBRACING_TYPE
63, 1, 1
64, 1, 1
65, 2, 1
66, 2, 1
67, 3, 1
68, 3, 1
69, 5, 1
70, 5, 1
71, 6, 1
72, 6, 1
73, 7, 1
74, 7, 1
75, 8, 1
76, 8, 1
77, 9, 1
78, 9, 1
79, 10, 1
80, 10, 1
81, 11, 1
82, 11, 1
*ENDDATA

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