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;  MIDAS/Civil Text(MCT) File.
;  Date : 2015/4/21
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*VERSION
   8.3.1
*UNIT    ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, KCAL, C
*STRUCTYPE    ; Structure Type
;  iSTYP,  iMASS,  iSMAS,  bMASSOFFSET,
bSELFWEIGHT,  GRAV,  TEMPER,
bALIGNBEAM, bALIGNSLAB, bROTRIGID
      0, 1, 1, NO, YES, 9.806, 0, NO, NO,
NO
*REBAR-MATL-CODE    ; Rebar Material
Code
;  CONC_CODE,  CONC_MDB,  SRC_CODE,
SRC_MDB
 KSCE-LSD12(RC),  SD300,
KSCE-LSD12(RC), SD300
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; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; 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 ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8 ; Solid Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL ; Frame(Ref. Point)
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; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1] ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [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, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
1, CONC , C40 , 0, 0, , C, YES, 0.05, 1, KSCE-LSD12(RC), , C40
2, CONC , C21 , 0, 0, , C, YES, 0.05, 1, KSCE-LSD12(RC), , C21
3, CONC , C24 , 0, 0, , C, NO, 0.05, 1, KSCE-LSD12(RC), , C24
4, CONC , C27 , 0, 0, , C, YES, 0.05, 1, KSCE-LSD12(RC), , C27
*MATL-COLOR
; iMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
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4, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
*SECT-PSCVALUE ; PSC Value, General Section, Composite PC, Composite General
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line - COMPOSITE-GEN(TAPERED)
; [PART1]-I ; 2nd line
; [PART2]-I ; next lines
; ...
; [PART1]-J ; next lines
; [PART2]-J ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] ; Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] ; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1,
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LIX11, LIX12, ..., LIXn                    ; Line(General-LINE)
;          : ...
;              : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn                    ; Line(General-LINE)
 SECT=        9, VALUE          , 연결부재, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
        0.414,    0.345,    0.345,    0.00425,    0.00112, 0.183
        1.15,    1.15,    0.09,    0.09,    0.00405,    0.661, 4.96, 0, 1.15, 0.09
        -1.15, 1.15, 1.15, -1.15, 0.09, 0.09, -0.09, -0.09
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE,          [DATA1],          [DATA2]
 ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL                    ; 1st line - VALUE
;             AREA, ASy, ASz, Ixx, Iyy, Izz                                    ; 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, SHAPE, ELAST, DEN, POIS, POIC, SF
  ; 1st line - SRC
;                          D1,    D2,    [SRC]                                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2
  ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, 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, Ixx1, Iyy1, Izz1                                    ;  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)
;          AREA2, ASy2, ASz2, Ixx2, Iyy2, Izz2                                    ;  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)
;                    OPT1,    OPT2,    [JOINT]                                    ;  2nd line(STYPE=PSC)
;                ELAST,    DEN,    POIS,    POIC                                    ;  2nd line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE    ; 3rd line(STYPE=PSC)
;              bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I],          [CMPWEB-J]    ; 3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,    [STIFF-I],    [STIFF-J]    ; 4th line(STYPE=PSC)
;                                [SIZE-A]-i                                    ;  5th line(STYPE=PSC)
;                                [SIZE-B]-i                                    ;  6th line(STYPE=PSC)
;                                [SIZE-C]-i                                    ;  7th line(STYPE=PSC)
;                                [SIZE-D]-i                                    ;  8th line(STYPE=PSC)
;                                [SIZE-A]-j                                    ;  9th line(STYPE=PSC)
;                                [SIZE-B]-j                                    ;  10th line(STYPE=PSC)
;                                [SIZE-C]-j                                    ;  11th line(STYPE=PSC)
;                                [SIZE-D]-j                                    ;  12th line(STYPE=PSC)
;          GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S    ; 2nd line(STYPE=CMP-B/I)
;          SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i                    ; 3rd line(STYPE=CMP-B/I)
;          SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j                    ; 4th line(STYPE=CMP-B/I)
;              N1, N2, Hr, Hr2, tr1, tr2                                    ;  5th line(STYPE=CMP-B)
;          GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j    ; 2nd line(STYPE=CMP-CI/CT)
;                    OPT1,    OPT2,    [JOINT]                                    ;  3rd line(STYPE=CMP-CI/CT)
;                                [SIZE-A]-i                                    ;  4th line(STYPE=CMP-CI/CT)
;                                [SIZE-B]-i                                    ;  5th line(STYPE=CMP-CI/CT)
;                                [SIZE-C]-i                                    ;  6th line(STYPE=CMP-CI/CT)
;                                [SIZE-D]-i                                    ;  7th line(STYPE=CMP-CI/CT)
;                                [SIZE-A]-j                                    ;  8th line(STYPE=CMP-CI/CT)
;                                [SIZE-B]-j                                    ;  9th line(STYPE=CMP-CI/CT)
;                                [SIZE-C]-j                                    ;  10th line(STYPE=CMP-CI/CT)
;                                [SIZE-D]-j                                    ;  11th line(STYPE=CMP-CI/CT)
; iSEC, TYPE, SNAME, [OFFSET], bSD, STYPE1,                    STYPE2
; 1st line - CONSTRUCT
;        SHAPE, ...(same with other type data from shape)                    ; Before (STYPE1)
;        SHAPE, ...(same with other type data from shape)                    ; After (STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                    ; 2nd line
;              N1, N2, Hr, Hr2, tr1, tr2                                    ; 3rd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-SI
;                Hw, tw, B, tf1, B2, tf2                                    ; 2nd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-CI/CT
;                    OPT1,    OPT2,    [JOINT]                                    ;  2nd line
;                                [SIZE-A]                                    ; 3rd line
;                                [SIZE-B]                                    ; 4th line
;                                [SIZE-C]                                    ; 5th line
;                                [SIZE-D]                                    ; 6th line
;        SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb                    ; 7th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - PSC
;                    OPT1,    OPT2,    [JOINT]                                    ;  2nd line
;        bSHEARCHK, [SCHK], [WT], WIDTH,
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bSYM, bSIDEHOLE                                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,          [STIFF]
; 4th line
;                                                  [SIZE-A]
                                                   ; 5th line
;                                                  [SIZE-B]
                                                   ; 6th line
;                                                  [SIZE-C]
                                                   ; 7th line
;                                                  [SIZE-D]
                                                   ; 8th 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
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [JOINT]  : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
; [STIFF]  : AREA, ASy, ASz, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]          : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    1, PSC      , PSC b-b       , CB, 0, 0, 0, 0, 0, 0, YES, PSCI
       ,  , NO, NO, NO, NO, NO, NO, NO, NO, NO
       YES, YES, 1.67, YES, 0.35,  NO, 0, NO, 0, NO, 0, NO, 0,  0,  YES, NO
       NO, , NO, , , , , ,
       0, 0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
       0.075, 0.3, 0, 0, 0.275, 0, 0
       0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
       0.075, 0.3, 0, 0, 0.275, 0, 0
    2, PSC      , PSC a-a       , CB, 0, 0, 0, 0, 0, 0, YES, PSCI
       ,  , NO, NO, NO, NO, NO, NO, NO, NO, NO
       YES, YES, 1.75, YES, 0.02,  NO, 0, NO, 0, NO, 0, NO, 0,  0,  YES, NO
       NO, , NO, , , , , ,
       0, 0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
       0.265, 0.3, 0, 0, 0.275, 0, 0
       0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
       0.265, 0.3, 0, 0, 0.275, 0, 0
    3, TAPERED  , PSC-tap       , CB, 0, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1, PSC
       ,  , NO, NO, NO, NO, NO, NO, NO, NO, NO
       YES, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,  YES, 0, YES, 0, YES, 0, YES, 0,  0,  YES, NO
       NO, , NO, , , , , , , , , , , ,
       0, 0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
       0.075, 0.3, 0, 0, 0.275, 0, 0
       0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
       0.075, 0.3, 0, 0, 0.275, 0, 0
       0, 0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
       0.265, 0.3, 0, 0, 0.275, 0, 0
       0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
       0.265, 0.3, 0, 0, 0.275, 0, 0
    4, DBUSER   , cross         , CB, 0, 0, 0, 0, 1, 1, YES, SB , 2, 1.7, 0.4, 0, 0, 0, 0, 0, 0, 0, 0
    5, DBUSER   , COP1          , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.4, 9, 0, 0, 0, 0, 0, 0, 0, 0
    6, TAPERED  , COP2          , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
       2.4, 9, 0, 0, 0, 0, 0, 0,  2.4, 6, 0, 0, 0, 0, 0, 0
    7, DBUSER   , Pier          , CC, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
    8, DBUSER   , 연결          , CB, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.18, 2.3, 0, 0, 0, 0, 0, 0, 0, 0
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R, HE_G, HE_B, bBLEND, FACT
    1, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    2, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    3, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    4, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    5, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    6, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    7, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    8, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
    9, 255,  0,  0,  0, 255,  0,  0, 0, 255,  NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE,          [DATA1],          [DATA2]
  ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL          ; 1st line - VALUE
;          AREA, ASy, ASz, Ixx, Iyy, Izz
                                                   ; 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, SHAPE, ELAST, DEN, POIS, POIC, SF
  ; 1st line - SRC
;                    D1,   D2,   [SRC]
                                                   ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2
  ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, 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, Ixx1, Iyy1, Izz1          ; 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)
;          AREA2, ASy2, ASz2, Ixx2, Iyy2, Izz2          ; 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)
;                    OPT1,   OPT2,   [JOINT]
                                                   ; 2nd line(STYPE=PSC)
;                    ELAST,   DEN,   POIS,   POIC
                                                   ; 2nd line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE
; 3rd line(STYPE=PSC)
;          bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I],          [CMPWEB-J]
    ; 3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,          [STIFF-I],          [STIFF-J]
; 4th line(STYPE=PSC)
;                                                  [SIZE-A]-i
                                                   ;          5th
```

line(STYPE=PSC)
; [SIZE-B]-i
; 6th line(STYPE=PSC)
; [SIZE-C]-i
; 7th line(STYPE=PSC)
; [SIZE-D]-i
; 8th line(STYPE=PSC)
; [SIZE-A]-j
; 9th line(STYPE=PSC)
; [SIZE-B]-j
; 10th line(STYPE=PSC)
; [SIZE-C]-j
; 11th line(STYPE=PSC)
; [SIZE-D]-j
; 12th line(STYPE=PSC)
; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ; 2nd line(STYPE=CMP-B/I)
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i ; 3rd line(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 4th line(STYPE=CMP-B/I)
; N1, N2, Hr, Hr2, tr1, tr2 ; 5th line(STYPE=CMP-B)
; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd line(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd line(STYPE=CMP-CI/CT)
; [SIZE-A]-i
; 4th line(STYPE=CMP-CI/CT)
; [SIZE-B]-i
; 5th line(STYPE=CMP-CI/CT)
; [SIZE-C]-i
; 6th line(STYPE=CMP-CI/CT)
; [SIZE-D]-i
; 7th line(STYPE=CMP-CI/CT)
; [SIZE-A]-j
; 8th line(STYPE=CMP-CI/CT)
; [SIZE-B]-j
; 9th line(STYPE=CMP-CI/CT)
; [SIZE-C]-j
; 10th line(STYPE=CMP-CI/CT)
; [SIZE-D]-j
; 11th line(STYPE=CMP-CI/CT)
; iSEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2
; 1st line - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Before (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After (STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd line
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd line
; [SIZE-A] ; 3rd line
; [SIZE-B] ; 4th line
; [SIZE-C] ; 5th line
; [SIZE-D] ; 6th line
; SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb ; 7th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, S H A P E
; 1st line - PSC
; OPT1, OPT2, [JOINT] ; 2nd line
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd line
; bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF] ; 4th line
; [SIZE-A] ; 5th line
; [SIZE-B] ; 6th line
; [SIZE-C] ; 7th line
; [SIZE-D] ; 8th 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
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, PSC , PSC b-b , CB, 0, 0, 0, 0, 0, 0, 0, YES, PSCI
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
YES, YES, 1.67, YES, 0.35, NO, 0, NO, 0, NO, 0, NO, 0, 0, YES, NO
NO, , NO, , , , , ,
0, 0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
0.075, 0.3, 0, 0, 0.275, 0, 0
0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
0.075, 0.3, 0, 0, 0.275, 0, 0
2, PSC , PSC a-a , CB, 0, 0, 0, 0, 0, 0, 0, YES, PSCI
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
YES, YES, 1.75, YES, 0.02, NO, 0, NO, 0, NO, 0, NO, 0, 0, YES, NO
NO, , NO, , , , , ,
0, 0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
0.265, 0.3, 0, 0, 0.275, 0, 0
0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
0.265, 0.3, 0, 0, 0.275, 0, 0
3, TAPERED , PSC-tap , CB, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1, PSC
, , NO, NO, NO, NO, NO, NO, NO, NO, NO
YES, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0, 0, 0, YES, NO
NO, , NO, , , , , , , , , , , ,
0, 0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
0.075, 0.3, 0, 0, 0.275, 0, 0
0.14, 0.09, 0, 0, 1.32, 0.15, 0, 0, 0.2
0.075, 0.3, 0, 0, 0.275, 0, 0
0, 0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0, 0.01
0.265, 0.3, 0, 0, 0.275, 0, 0
0.14, 0.01, 0, 0, 1.73, 0.01, 0, 0,

0.01
0.265, 0.3, 0, 0, 0.275, 0, 0
4, DBUSER , cross , CB, 0, 0, 0, 0, 1, 1, YES, SB , 2, 1.7, 0.4, 0, 0, 0, 0, 0, 0, 0, 0
5, DBUSER , COP1 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.4, 9, 0, 0, 0, 0, 0, 0, 0, 0
6, TAPERED , COP2 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USER
2.4, 9, 0, 0, 0, 0, 0, 0, 2.4, 6, 0, 0, 0, 0, 0, 0
7, DBUSER , Pier , CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
8, DBUSER , 연결 , CB, 0, 0, 0, 0, 0, 0, YES, SB , 2, 0.18, 2.3, 0, 0, 0, 0, 0, 0, 0, 0
*DGN-SECT-PSCVALUE ; Design Section of PSC Value
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ ; 1st line
; [STIFF1] ; 2nd line
; [STIFF2] ; 3rd line
; [STIFF3] ; 4th line
; T1, T2, BT, HT ; 5th line(PSC)
; bSHEARCHK, [SCHK], [WT] ; 6th line(PSC)
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc ; 7th line(COMPOSITE-PC)
; OPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED
; [STIFF1-I] ; 2nd line
; [STIFF2-I] ; 3rd line
; [STIFF3-I] ; 4th line
; [STIFF1-J] ; 5th line
; [STIFF2-J] ; 6th line
; [STIFF3-J] ; 7th line
; T1-I, T2-I, BT-I, HT-I, T1-J, T2-J, BT-J, HT-J ; 8th line(PSC)
; bSHEARCHK, [SCHK-I], [WT-I], [SCHK-J], [WT-J] ; 9rd line(PSC)
; OPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; ...
; IPOLY=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; VERTEX=bI, X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; LINE=bI, VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; ...
; LINE=bI, VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; ...
; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, bBU, bEQ, BPRT ; 1st line - COMPOSITE-GEN
; [PART1] ; 2nd line
; [PART2] ; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, bEQ, PARTNUM ; 1st line - COMPOSITE-GEN(TAPERED)
; [PART1]-I ; 2nd line
; [PART2]-I ; next lines
; ...
; [PART1]-J ; next lines
; [PART2]-J ; next lines
; ...
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ
; [STIFF1] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [STIFF2] ; Cyp, Cym, Czp, Czm, Qyb, Qzb, PERI_OUT, PERI_IN, Cy, Cz
; [STIFF3] ; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4
; [SCHK] : Z1, Z3, bAUTO_QY1, QY1, bAUTO_QY2, QY2, bAUTO_QY3, QY3
; [WT] : TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [PART] : PART=part_num
; : [STIFF1]
; : [STIFF2]
; : [STIFF3]
; : [STIFF1] ; [STIFF1] of Part Sum.
; : [STIFF2] ; [STIFF2] of Part Sum.
; : [STIFF3] ; [STIFF3] of Part Sum.
; : OPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Outer Polygon(PLANE)
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : ...
; : IPOLY=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Inner Polygon(PLANE)
; : VERTEX=(bI-Tapered), X1, Y1, X2, Y2, ..., Xn, Yn ; Vertex(General-LINE)
; : LINE=(bI-Tapered), VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE)
; : ...
; : LINE=(bI-Tapered), VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE)
; : LOOP=(bI-Tapered), COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE)
; : ...
; : LOOP=(bI-Tapered), COUNTn, LIXn1, LIXn2, ..., LIXnn ; Line(General-LINE)
SECT= 9, VALUE , 연결부재, CC, 0, 0, 0, 0, 0, 0, YES, GEN, YES, YES
0.414, 0.345, 0.345, 0.00425, 0.00112, 0.183
1.15, 1.15, 0.09, 0.09, 0.00405, 0.661, 4.96, 0, 1.15, 0.09
-1.15, 1.15, 1.15, -1.15, 0.09, 0.09, -0.09, -0.09
*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
고정하중, USER,
2차 고정하중, USER,
*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
1086to1090 30688to30696by2 30737to30752, 111111,
*ELASTICLINK
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy, DRz, GROUP ; GEN
; iNO, iNODE1, iNODE2, LINK, ANGLE, bSHEAR, DRy, DRz, GROUP ; RIGID
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, bSHEAR, DRy, DRz, GROUP ; TENS,COMP
; iNO, iNODE1, iNODE2, LINK, ANGLE, (UN)SYM, NUM, DIST1, FORCE1 ... DIST10, FORCE10, DIR, bSHEAR, DRENDI, GROUP ; MULTI LINEAR
1, 908, 1088, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
2, 998, 30136, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
3, 30157, 30622, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
4, 30217, 30632, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
5, 30277, 30642, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,

6, 30337, 30652, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
7, 30397, 30662, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
8, 30457, 30672, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
9, 30517, 30682, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
10, 30577, 30692, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
11, 907, 1087, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
12, 997, 30102, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
13, 30150, 30620, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
14, 30210, 30630, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
15, 30270, 30640, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
16, 30330, 30650, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
17, 30390, 30660, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
18, 30450, 30670, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
19, 30510, 30680, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
20, 30570, 30690, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
21, 906, 1086, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
22, 996, 30068, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
23, 30143, 30618, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
24, 30203, 30628, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
25, 30263, 30638, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
26, 30323, 30648, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
27, 30383, 30658, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
28, 30443, 30668, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
29, 30503, 30678, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
30, 30563, 30688, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
31, 909, 1089, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
32, 999, 30034, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
33, 30164, 30624, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
34, 30224, 30634, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
35, 30284, 30644, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
36, 30344, 30654, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
37, 30404, 30664, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
38, 30464, 30674, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
39, 30524, 30684, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
40, 30584, 30694, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
41, 910, 1090, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
42, 1000, 30000, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
43, 30171, 30626, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
44, 30231, 30636, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
45, 30291, 30646, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
46, 30351, 30656, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
47, 30411, 30666, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
48, 30471, 30676, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
49, 30531, 30686, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
50, 30591, 30696, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
51, 30152, 30621, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
52, 30212, 30631, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
53, 30272, 30641, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
54, 30332, 30651, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
55, 30392, 30661, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
56, 30452, 30671, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
57, 30512, 30681, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
58, 30572, 30691, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
59, 30145, 30619, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
60, 30205, 30629, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
61, 30265, 30639, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
62, 30325, 30649, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
63, 30385, 30659, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
64, 30445, 30669, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
65, 30505, 30679, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
66, 30565, 30689, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
67, 30138, 30617, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
68, 30198, 30627, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
69, 30258, 30637, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
70, 30318, 30647, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
71, 30378, 30657, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
72, 30438, 30667, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
73, 30498, 30677, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
74, 30558, 30687, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
75, 30159, 30623, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
76, 30219, 30633, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
77, 30279, 30643, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
78, 30339, 30653, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
79, 30399, 30663, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
80, 30459, 30673, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
81, 30519, 30683, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
82, 30579, 30693, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
83, 30166, 30625, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
84, 30226, 30635, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
85, 30286, 30645, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
86, 30346, 30655, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
87, 30406, 30665, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
88, 30466, 30675, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
89, 30526, 30685, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
90, 30586, 30695, GEN , 0, 679000, 3834, 3834, 0, 0, 0, NO, 0.5, 0.5,
101, 30136, 30102, RIGID, 0, NO, 0.5, 0.5,
102, 30622, 30620, RIGID, 0, NO, 0.5, 0.5,
103, 30632, 30630, RIGID, 0, NO, 0.5, 0.5,
104, 30642, 30640, RIGID, 0, NO, 0.5, 0.5,
105, 30652, 30650, RIGID, 0, NO, 0.5, 0.5,
106, 30662, 30660, RIGID, 0, NO, 0.5, 0.5,
107, 30672, 30670, RIGID, 0, NO, 0.5, 0.5,
108, 30682, 30680, RIGID, 0, NO, 0.5, 0.5,
109, 30068, 30697, RIGID, 0, NO, 0.5, 0.5,
110, 30102, 30068, RIGID, 0, NO, 0.5, 0.5,
111, 30620, 30618, RIGID, 0, NO, 0.5, 0.5,
112, 30630, 30628, RIGID, 0, NO, 0.5, 0.5,
113, 30640, 30638, RIGID, 0, NO, 0.5, 0.5,
114, 30650, 30648, RIGID, 0, NO, 0.5, 0.5,
115, 30660, 30658, RIGID, 0, NO, 0.5, 0.5,
116, 30670, 30668, RIGID, 0, NO, 0.5, 0.5,
117, 30680, 30678, RIGID, 0, NO, 0.5, 0.5,

118, 30618, 30698, RIGID, 0, NO, 0.5, 0.5,
119, 30068, 30034, RIGID, 0, NO, 0.5, 0.5,
120, 30618, 30624, RIGID, 0, NO, 0.5, 0.5,
121, 30628, 30634, RIGID, 0, NO, 0.5, 0.5,
122, 30638, 30644, RIGID, 0, NO, 0.5, 0.5,
123, 30648, 30654, RIGID, 0, NO, 0.5, 0.5,
124, 30658, 30664, RIGID, 0, NO, 0.5, 0.5,
125, 30668, 30674, RIGID, 0, NO, 0.5, 0.5,
126, 30678, 30684, RIGID, 0, NO, 0.5, 0.5,
127, 30628, 30699, RIGID, 0, NO, 0.5, 0.5,
128, 30034, 30000, RIGID, 0, NO, 0.5, 0.5,
129, 30624, 30626, RIGID, 0, NO, 0.5, 0.5,
130, 30634, 30636, RIGID, 0, NO, 0.5, 0.5,
131, 30644, 30646, RIGID, 0, NO, 0.5, 0.5,
132, 30654, 30656, RIGID, 0, NO, 0.5, 0.5,
133, 30664, 30666, RIGID, 0, NO, 0.5, 0.5,
134, 30674, 30676, RIGID, 0, NO, 0.5, 0.5,
135, 30684, 30686, RIGID, 0, NO, 0.5, 0.5,
136, 30638, 30700, RIGID, 0, NO, 0.5, 0.5,
137, 30621, 30619, RIGID, 0, NO, 0.5, 0.5,
138, 30631, 30629, RIGID, 0, NO, 0.5, 0.5,
139, 30641, 30639, RIGID, 0, NO, 0.5, 0.5,
140, 30651, 30649, RIGID, 0, NO, 0.5, 0.5,
141, 30661, 30659, RIGID, 0, NO, 0.5, 0.5,
142, 30671, 30669, RIGID, 0, NO, 0.5, 0.5,
143, 30681, 30679, RIGID, 0, NO, 0.5, 0.5,
144, 30691, 30689, RIGID, 0, NO, 0.5, 0.5,
145, 30619, 30617, RIGID, 0, NO, 0.5, 0.5,
146, 30629, 30627, RIGID, 0, NO, 0.5, 0.5,
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148, 30649, 30647, RIGID, 0, NO, 0.5, 0.5,
149, 30659, 30657, RIGID, 0, NO, 0.5, 0.5,
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152, 30689, 30687, RIGID, 0, NO, 0.5, 0.5,
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157, 30657, 30663, RIGID, 0, NO, 0.5, 0.5,
158, 30667, 30673, RIGID, 0, NO, 0.5, 0.5,
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161, 30623, 30625, RIGID, 0, NO, 0.5, 0.5,
162, 30633, 30635, RIGID, 0, NO, 0.5, 0.5,
163, 30643, 30645, RIGID, 0, NO, 0.5, 0.5,
164, 30653, 30655, RIGID, 0, NO, 0.5, 0.5,
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166, 30673, 30675, RIGID, 0, NO, 0.5, 0.5,
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171, 30668, 30703, RIGID, 0, NO, 0.5, 0.5,
172, 30678, 30704, RIGID, 0, NO, 0.5, 0.5,
173, 30697, 30617, RIGID, 0, NO, 0.5, 0.5,
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187, 30719, 30727, RIGID, 0, NO, 0.5, 0.5,
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196, 30720, 30736, RIGID, 0, NO, 0.5, 0.5,
; *LOADTOMASS, DIR, bNODAL, bBEAM, bFLOOR, bPRES, GRAV
; LCNAME1, FACTOR1, LCNAME2, FACTOR2, ... ; from line 1
*LOADTOMASS, XYZ, YES, YES, YES, YES, 9.806
2차 고정하중, 1
*USE-STLD, 고정하중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
; End of data for load case [고정하중]
---
*USE-STLD, 2차 고정하중
*BEAMLOAD ; Element Beam Loads
; ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
; ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP
; [VALUE] : D1, P1, D2, P2, D3, P3, D4, P4
; [ECCEN] : bECCEN, ECCDIR, I-END, J-END, bJ-END
; [ADDITIONAL] : bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
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5, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
6, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
7, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
8, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
11, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO

12, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
13, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
14, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
17, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
18, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
19, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
20, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
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24, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
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29, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
30, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
31, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
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1903, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1904, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1906, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1907, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1908, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1910, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1911, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1912, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1914, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1915, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1916, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1918, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1919, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1920, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1921, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1922, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1923, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1924, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1925, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1926, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1927, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1928, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1929, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1930, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1931, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1932, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1933, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1934, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1935, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1936, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1937, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1938, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1939, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1940, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1941, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1942, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1943, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1944, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1945, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1970, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1971, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1972, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1973, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1974, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1975, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1976, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1977, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1978, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO
1979, BEAM , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -20.6245, 1, -20.6245, 0, 0, 0, 0, , NO, 0, 0, NO

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; End of data for load case [2차 고정하중] -------------------------
*SFUNCTION    ; Spectrum Function
; FUNC=NAME, iTYPE, iMETHOD, SCALE/MAX, GRAV, DRATIO, DESC, RMF    ; line 1
;      SPEC_CODE, [CODE_DATA]                             ; line 2
;      PERIOD1, VALUE1, PERIOD2, VALUE2, ...              ; from line 3
;[CODE_DATA] : NSC, SFI, SC, EQ, TG                       ; CH2001
;[CODE_DATA] : SFI, SC, EQ, TG                            ; CHSH2003
;[CODE_DATA] : DIV, SC, SFI, EQ, TG, G                    ; GB50111_2006
;[CODE_DATA] : BT, ZM, ST, SI, SC, TG, CI, CS, CD, EPA, SMAX, PERIOD ; JTG/T B02-01-2008
   FUNC=KS-Bridge, 1, 0, 1, 9.806, 0.05, KS-Bridge : Soil = 1.20  Area = 0.110  I = 1.400  R = 1.000, 1.000000
   KS_BRG
        0.000000, 0.385, 0.100000, 0.385
        0.200000, 0.385, 0.300000, 0.385
        0.400000, 0.385, 0.437153, 0.385
        0.500000, 0.35202205728, 0.600000, 0.3117327131
        0.700000, 0.28128798775, 0.800000, 0.25732968494
        0.900000, 0.23789658437, 1.000000, 0.22176
        1.100000, 0.20810767128, 1.200000, 0.19637930358
        1.300000, 0.18617483519, 1.400000, 0.17720032843
        1.500000, 0.16923455362, 1.600000, 0.16210754341
        1.700000, 0.15568637214, 1.800000, 0.14986545717
        1.900000, 0.14455978012, 2.000000, 0.13970004601
        2.100000, 0.13522915982, 2.200000, 0.13109961784
        2.300000, 0.12727154677, 2.400000, 0.12371120918
        2.500000, 0.12038985013, 2.600000, 0.11728279691
        2.700000, 0.11436874886, 2.800000, 0.11162921192
        2.900000, 0.10904804424, 3.000000, 0.10661108824
        3.100000, 0.10430587013, 3.200000, 0.10212135314
        3.300000, 0.10004773316, 3.400000, 0.098076268722
        3.500000, 0.096199138629, 3.600000, 0.094409322071
        3.700000, 0.092700497213, 3.800000, 0.091066954968
        3.900000, 0.089503525352, 4.000000, 0.088005514321
        4.100000, 0.084484702539, 4.200000, 0.08181334844
        4.300000, 0.079286384484, 4.400000, 0.076892914002
        4.500000, 0.074623085679, 4.600000, 0.072467972808
        4.700000, 0.070419468744, 4.800000, 0.068470196111
        4.900000, 0.066613427703, 5.000000, 0.064843017363
        5.100000, 0.063153339425, 5.200000, 0.061539235506
        5.300000, 0.05999596763, 5.400000, 0.058519176842
        5.500000, 0.057104846562, 5.600000, 0.055749270082
        5.700000, 0.054449021654, 5.800000, 0.053200930731
        5.900000, 0.052002058968, 6.000000, 0.050849679633
        6.100000, 0.049741259164, 6.200000, 0.048674440592
        6.300000, 0.047647028634, 6.400000, 0.046656976256
        6.500000, 0.045702372536, 6.600000, 0.044781431699
        6.700000, 0.043892483175, 6.800000, 0.043033962591
        6.900000, 0.042204403576, 7.000000, 0.041402430319
        7.100000, 0.040626750779, 7.200000, 0.039876150493
        7.300000, 0.039149486926, 7.400000, 0.038445684293
        7.500000, 0.037763728828, 7.600000, 0.03710266444
        7.700000, 0.036461588724, 7.800000, 0.035839649302
        7.900000, 0.035236040451, 8.000000, 0.03465
        8.100000, 0.034080806468, 8.200000, 0.033527776421
        8.300000, 0.032990262037, 8.400000, 0.032467648845
        8.500000, 0.031959353636, 8.600000, 0.031464822534
        8.700000, 0.030983529195, 8.800000, 0.030514973144
        8.900000, 0.030058678228, 9.000000, 0.029614191177
        9.100000, 0.029181080266, 9.200000, 0.028758934067
        9.300000, 0.028347360289, 9.400000, 0.027945984691
        9.500000, 0.027554450074, 9.600000, 0.027172415334
        9.700000, 0.026799554579, 9.800000, 0.026435556303
        9.900000, 0.02608012261, 10.000000, 0.025732968494
*SPLDCASE    ; Spectrum Load Cases
; TYPE, bADDSIGN, iSIGNTYPE
; NAME=NAME, DIR, ANGLE, SCALE, PMFT, bDAMP, bECC, INTERP, DESC,    ; line 1
;      COMTYPE, bADDSIGN, iSIGNTYPE, bMODE                          ; line 2
;      FUNC1, FUNC2, FUNC3, ...                                     ; line 3
;      bUSE1, dFACTOR1, bUSE2, dFACTOR2, ..., bUSEn, dFACTORn       ; line 4 (bMODE=YES)
;      bCDR, [DR-DC]                                                ; line 5 (bDAMP=YES)
; [DR-DC] : iMDTYPE, DALL, iMODE1, DAMPING1, iMODE2, DAMPING2, ...  ; iMDTYPE=1
;         : iMDTYPE, iCOEF, bMASSP, MASSC, bSTIFFP, STIFFC          ; iMDTYPE=2, iCOEF=1
;         : iMDTYPE, iCOEF, iCALC, bMASSP, FP1, DR1, bSTIFFP, FP2, DR2 ; iMDTYPE=2, iCOEF=2
   NAME=X-dir, XY, 0, 1, 1, NO, NO, LOG,
        SRSS, NO, 0, YES
        KS-Bridge
        YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1
   NAME=Y-dir, XY, 90, 1, 1, NO, NO, LOG,
        SRSS, NO, 0, YES
        KS-Bridge
        YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
1,YES, 1,YES, 1,YES, 1
*MVLDCODE    ; Moving Load Code
; CODE=CODE
   CODE=NONE
*LOADCOMB    ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE   ; line 1
;      ANAL1, LCNAME1, FACT1, ...                                    ; from line 2
   NAME=고정하중, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 고정하중, 1, ST, 2차 고정하중, 1
   NAME=X-dir, GEN, ACTIVE, 0, 0, , 0, 0
        RS, X-dir, 1
   NAME=Y-dir, GEN, ACTIVE, 0, 0, , 0, 0
        RS, Y-dir, 1
   NAME=com1, GEN, ACTIVE, 0, 0, , 0, 0
        RS, X-dir, 1, RS, Y-dir, 0.3
   NAME=com2, GEN, ACTIVE, 0, 0, , 0, 0
        RS, X-dir, 0.3, RS, Y-dir, 1
*LC-COLOR    ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)
 ST, 고정하중, 210, 210, 210, 128, 192, 0, 0, 128, 255
 RS, X-dir, 192, 72, 0, 163, 160, 255, 148, 87, 255
 RS, Y-dir, 163, 160, 255, 255, 87, 87, 255, 87, 128
 CB, 고정하중, 255, 128, 0, 163, 160, 255, 210, 210, 210
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 ST, 2차 고정하중, 192, 0, 192, 192, 0, 192, 192, 128, 0
 CB, X-dir, 0, 192, 192, 160, 255, 255, 0, 128, 192
 CB, Y-dir, 255, 0, 192, 0, 128, 128, 0, 192, 192
 CB, com1, 160, 255, 255, 192, 128, 0, 146, 0, 255
 CB, com2, 192, 0, 192, 0, 128, 192, 78, 0, 255
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR, bTPF, bCSO, bSCS, bCLATS
   YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO, NO
*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)
   RITZ, NO, 0
   GROUND, ACCX, 25, GROUND, ACCY, 25
*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
; [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 , C40 , 1, KSCE-LSD12(RC), ,C40
, NO, 1, , , , 0, 0, 28000, NO, 0, 0
    2, CONC , C21 , 1, KSCE-LSD12(RC), ,C21
, NO, 1, , , , 0, 0, 14700, NO, 0, 0
    3, CONC , C24 , 1, KSCE-LSD12(RC), ,C24
, NO, 1, , , , 0, 0, 16800, NO, 0, 0
    4, CONC , C27 , 1, KSCE-LSD12(RC), ,C27
, NO, 1, , , , 0, 0, 18900, NO, 0, 0
*SECTION MANAGER-GROUP & PART ; Section Manager - Group & Part
; SECT = NO, bSAMEJ ; line 1
; GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE ; line 2
;
.....
; LOOP UTIL (GRPDISIZE, GRPDJSIZE) ;
; GROUPID, GROUPNAME, GROUPTYPE ; line n
;
.....
; LOOP UTIL (PARTISIZE, PARTJSIZE) ;
; PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER ; line n
; LINESIZE, LINEINDEX[i]..... ; line n
;
.....
   SECT=3, YES
 0, 0, 0, 0
   SECT=6, YES
 0, 0, 0, 0
   SECT=9, YES
 0, 0, 0, 0
*SECTION MANAGER-STIFFENER ; Section Manager - Stiffener
; SECT = NO, bSAMEJ ; line 1
; STFNISIZE, STFNJSIZE ; line 2
;
.....
; LOOP UTIL (STFNISIZE, STFNJSIZE) ;
; TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC ; line n
; STIFFTYPE, dSIZE(0 ~ 20) ; line n
; LINESIZE, LINEINDEX[i]..... ; line n
;
.....
   SECT=3, YES
 0, 0
   SECT=6, YES
 0, 0
   SECT=9, YES
 0, 0
*ENDDATA
```