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;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/12
;------------------------------------------------------------------------------
*VERSION
   8.1.5
*UNIT     ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, KCAL, C
*PROJINFO     ; Project Information
   USER=kms
   ADDRESS=ourbrain
*STRUCTYPE     ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
      0, 1, 1, NO, NO, 9.806, 0, YES, YES, NO
*REBAR-MATL-CODE     ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE     ; Nodes
; iNO, X, Y, Z
      1, 704.669018932695, -538.603997237366, 0
      2, 709.52796963034, -539.869556195194, 0
      3, 714.404465834686, -541.065727640632, 0
      4, 719.297516721382, -542.192268531186, 0
      5, 724.206128102434, -543.248949972153, 0
      6, 729.129302628212, -544.235557263131, 0
      7, 734.066039990093, -545.151889941637, 0
      8, 739.015337123704, -545.997761823843, 0
      9, 743.976188412736, -546.773001042404, 0
     10, 748.947585893261, -547.477450081377, 0
     11, 753.928519458539, -548.110965808227, 0
     12, 758.917977064253, -548.67341950291, 0
     13, 763.914944934141, -549.164696884024, 0
     14, 768.918407765976, -549.584698132033, 0
     15, 773.927348937862, -549.933337909546, 0
     16, 778.940750714794, -550.210545378656, 0
     17, 783.957594455446, -550.416264215334, 0
     18, 788.97686081914, -550.550452620875, 0
     19, 793.997529972958, -550.613083330387, 0
     20, 799.018581798964, -550.613083330387, 0
     21, 804.038996101463, -550.523635301117, 0
     22, 809.1312996125, -550.371355775314, 0
     23, 812.059998494169, -550.245099331868, 0
     24, 817.046372820087, -549.981664290976, 0
     25, 822.0874897994, -549.64191140555, 0
     26, 827.123215024375, -549.229887279043, 0
     27, 832.152512442454, -548.7456766815, 0
     28, 837.174347323541, -548.189379234644, 0
     29, 842.187686472882, -547.561109391384, 0
     30, 847.191498443644, -546.860996412261, 0
     31, 852.184753749116, -546.089184338861, 0
     32, 857.166425074524, -545.245831964175, 0
     33, 862.135487488384, -544.331112799932, 0
     34, 867.090918653379, -543.345215040897, 0
     35, 872.03169903669, -542.288341526155, 0
     36, 876.956812119757, -541.160709697376, 0
     37, 881.865244607419, -539.962551554082, 0
     38, 886.755986636387, -538.694113605912, 0
     39, 705.834252468099, -534.257477847329, 0
     40, 710.638906846325, -535.50883564911, 0
     41, 715.460937106939, -536.691470084599, 0
     42, 720.299360318677, -537.805140083479, 0
     43, 725.153190208704, -538.849618633267, 0
     44, 730.021437363661, -539.82469282559, 0
     45, 734.90310943135, -540.730163899582, 0
     46, 739.797211323011, -541.5658472824, 0
     47, 744.702745416171, -542.331572626851, 0
     48, 749.618711757993, -543.027183846112, 0
     49, 754.544108269112, -543.652539145549, 0
     50, 759.477930947904, -544.207511051621, 0
     51, 764.419174075135, -544.691986437862, 0
     52, 769.366830418978, -545.105866547943, 0
     53, 774.319891440321, -545.449067015804, 0
     54, 779.277347498354, -545.721517882848, 0
     55, 784.238188056376, -545.923163612203, 0
     56, 789.201401887783, -546.053963100044, 0
     57, 794.165977282197, -546.113889683969, 0
     58, 799.130902251699, -546.102931148435, 0
     59, 804.095164737111, -546.021089727252, 0
     60, 808.936519824713, -545.874149595937, 0
     61, 811.904601735715, -545.744700384655, 0
     62, 816.968041299013, -545.478180721206, 0
     63, 821.930866747294, -545.141044435591, 0
     64, 826.888362157746, -544.732955523053, 0
     65, 831.839513185545, -544.25399748198, 0
     66, 836.783306783982, -543.704268311174, 0
     67, 841.71873141174, -543.083880489798, 0
     68, 846.64477723986, -542.392960954365, 0
     69, 851.560436358366, -541.631651072762, 0
     70, 856.46470298249, -540.800106615327, 0
     71, 861.356573658461, -539.898497722977, 0
     72, 866.235047468822, -538.927008872396, 0
     73, 871.099126237228, -537.885838838288, 0
     74, 875.947814732679, -536.775200652709, 0
     75, 880.780120873152, -535.595321561475, 0
     76, 885.595055928593, -534.346442977668, 0
*ELEMENT     ; Elements
; 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)
      1, BEAM  ,     1,       1,       1,       2,       0
      2, BEAM  ,     1,       2,       2,       3,       0
      3, BEAM  ,     1,       2,       3,       4,       0
      4, BEAM  ,     1,       3,       4,       5,       0
      5, BEAM  ,     1,       3,       5,       6,       0
      6, BEAM  ,     1,       3,       6,       7,       0
      7, BEAM  ,     1,       2,       7,       8,       0
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     8, BEAM   ,     1,      4,      8,      9,      0
     9, BEAM   ,     1,      5,      9,     10,      0
    10, BEAM   ,     1,      5,     10,     11,      0
    11, BEAM   ,     1,      6,     11,     12,      0
    12, BEAM   ,     1,      5,     12,     13,      0
    13, BEAM   ,     1,      5,     13,     14,      0
    14, BEAM   ,     1,      2,     14,     15,      0
    15, BEAM   ,     1,      7,     15,     16,      0
    16, BEAM   ,     1,      7,     16,     17,      0
    17, BEAM   ,     1,      8,     17,     18,      0
    18, BEAM   ,     1,      9,     18,     19,      0
    19, BEAM   ,     1,      9,     19,     20,      0
    20, BEAM   ,     1,     10,     20,     21,      0
    21, BEAM   ,     1,     11,     21,     22,      0
    22, BEAM   ,     1,     12,     22,     23,      0
    23, BEAM   ,     1,     13,     23,     24,      0
    24, BEAM   ,     1,     14,     24,     25,      0
    25, BEAM   ,     1,     15,     25,     26,      0
    26, BEAM   ,     1,     16,     26,     27,      0
    27, BEAM   ,     1,     17,     27,     28,      0
    28, BEAM   ,     1,     17,     28,     29,      0
    29, BEAM   ,     1,     18,     29,     30,      0
    30, BEAM   ,     1,     18,     30,     31,      0
    31, BEAM   ,     1,     19,     31,     32,      0
    32, BEAM   ,     1,     19,     32,     33,      0
    33, BEAM   ,     1,     18,     33,     34,      0
    34, BEAM   ,     1,     18,     34,     35,      0
    35, BEAM   ,     1,     17,     35,     36,      0
    36, BEAM   ,     1,     20,     36,     37,      0
    37, BEAM   ,     1,     21,     37,     38,      0
    38, BEAM   ,     1,      1,     39,     40,      0
    39, BEAM   ,     1,      2,     40,     41,      0
    40, BEAM   ,     1,      2,     41,     42,      0
    41, BEAM   ,     1,      3,     42,     43,      0
    42, BEAM   ,     1,      3,     43,     44,      0
    43, BEAM   ,     1,      3,     44,     45,      0
    44, BEAM   ,     1,      2,     45,     46,      0
    45, BEAM   ,     1,      4,     46,     47,      0
    46, BEAM   ,     1,      5,     47,     48,      0
    47, BEAM   ,     1,      5,     48,     49,      0
    48, BEAM   ,     1,      6,     49,     50,      0
    49, BEAM   ,     1,      5,     50,     51,      0
    50, BEAM   ,     1,      5,     51,     52,      0
    51, BEAM   ,     1,      2,     52,     53,      0
    52, BEAM   ,     1,      7,     53,     54,      0
    53, BEAM   ,     1,      7,     54,     55,      0
    54, BEAM   ,     1,      8,     55,     56,      0
    55, BEAM   ,     1,      9,     56,     57,      0
    56, BEAM   ,     1,      9,     57,     58,      0
    57, BEAM   ,     1,     10,     58,     59,      0
    58, BEAM   ,     1,     11,     59,     60,      0
    59, BEAM   ,     1,     12,     60,     61,      0
    60, BEAM   ,     1,     13,     61,     62,      0
    61, BEAM   ,     1,     14,     62,     63,      0
    62, BEAM   ,     1,     15,     63,     64,      0
    63, BEAM   ,     1,     16,     64,     65,      0
    64, BEAM   ,     1,     17,     65,     66,      0
    65, BEAM   ,     1,     17,     66,     67,      0
    66, BEAM   ,     1,     18,     67,     68,      0
    67, BEAM   ,     1,     18,     68,     69,      0
    68, BEAM   ,     1,     19,     69,     70,      0
    69, BEAM   ,     1,     19,     70,     71,      0
    70, BEAM   ,     1,     18,     71,     72,      0
    71, BEAM   ,     1,     18,     72,     73,      0
    72, BEAM   ,     1,     17,     73,     74,      0
    73, BEAM   ,     1,     20,     74,     75,      0
    74, BEAM   ,     1,     21,     75,     76,      0
    75, BEAM   ,     1,     22,      1,     39,      0
    76, BEAM   ,     1,     22,      2,     40,      0
    77, BEAM   ,     1,     22,      3,     41,      0
    78, BEAM   ,     1,     22,      4,     42,      0
    79, BEAM   ,     1,     22,      5,     43,      0
    80, BEAM   ,     1,     22,      6,     44,      0
    81, BEAM   ,     1,     22,      7,     45,      0
    82, BEAM   ,     1,     22,      8,     46,      0
    83, BEAM   ,     1,     22,      9,     47,      0
    84, BEAM   ,     1,     22,     10,     48,      0
    85, BEAM   ,     1,     22,     11,     49,      0
    86, BEAM   ,     1,     22,     12,     50,      0
    87, BEAM   ,     1,     22,     13,     51,      0
    88, BEAM   ,     1,     22,     14,     52,      0
    89, BEAM   ,     1,     22,     15,     53,      0
    90, BEAM   ,     1,     22,     16,     54,      0
    91, BEAM   ,     1,     22,     17,     55,      0
    92, BEAM   ,     1,     22,     18,     56,      0
    93, BEAM   ,     1,     22,     19,     57,      0
    94, BEAM   ,     1,     22,     20,     58,      0
    95, BEAM   ,     1,     22,     21,     59,      0
    96, BEAM   ,     1,     22,     22,     60,      0
    97, BEAM   ,     1,     22,     23,     61,      0
    98, BEAM   ,     1,     22,     24,     62,      0
    99, BEAM   ,     1,     22,     25,     63,      0
   100, BEAM   ,     1,     22,     26,     64,      0
   101, BEAM   ,     1,     22,     27,     65,      0
   102, BEAM   ,     1,     22,     28,     66,      0
   103, BEAM   ,     1,     22,     29,     67,      0
   104, BEAM   ,     1,     22,     30,     68,      0
   105, BEAM   ,     1,     22,     31,     69,      0
   106, BEAM   ,     1,     22,     32,     70,      0
   107, BEAM   ,     1,     22,     33,     71,      0
   108, BEAM   ,     1,     22,     34,     72,      0
   109, BEAM   ,     1,     22,     35,     73,      0
   110, BEAM   ,     1,     22,     36,     74,      0
   111, BEAM   ,     1,     22,     37,     75,      0
   112, BEAM   ,     1,     22,     38,     76,      0
*GROUP      ; Group
; NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
   가로보      , , 75to112, 0
   G1          , 39to76, 38to74, 0
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   G2          , 1to38, 1to37, 0
*MATERIAL     ; Material
; 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, STEEL, SM490                , 0, 0, , C, NO, 0.05, 1, KS10-Civil(S),               , SM490
*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
*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, SHAPE                                           ; 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, SHAPE                                           ; 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, SHAPE                                           ; 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, SHAPE                                           ; 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, VALUE     , 단면1            , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.3, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
       0.14196, 0.06, 0.0552, 0.16781, 0.135945, 0.128222
       1.256, 1.256, 1.15, 1.15, 2.07752, 2.2181, 9.576, 9.528, 1.256, 1.15
       -1.256, 1.244, 1.244, -1.256, 1.15, 1.15, -1.15, -1.15, 0.0997211, 0.10578
    2, VALUE     , 단면2            , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
       0.14676, 0.06, 0.06, 0.190213, 0.163358, 0.135795
       1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
       -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
    3, VALUE     , 단면3            , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.014, 0, 0, 0
```

```
        0.15224, 0.065, 0.06, 0.197374, 0.172706, 0.139223
        1.256, 1.256, 1.29925, 1.20075, 2.44507, 2.22293, 9.976, 9.924, 1.256, 1.20075
        -1.256, 1.244, 1.244, -1.256, 1.29925, 1.29925, -1.20075, -1.20075, 0.117294, 0.114845
    4, VALUE     , 단면4              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
        0.15516, 0.06, 0.06, 0.190213, 0.175635, 0.135795
        1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
    5, VALUE     , 단면5              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
        0.14676, 0.06, 0.06, 0.190213, 0.163358, 0.135795
        1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
    6, VALUE     , 단면6              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.016, 0, 0, 0
        0.15772, 0.07, 0.06, 0.203131, 0.177964, 0.142651
        1.256, 1.256, 1.34465, 1.15535, 2.5613, 2.11941, 9.976, 9.92, 1.256, 1.15535
        -1.256, 1.244, 1.244, -1.256, 1.34465, 1.34465, -1.15535, -1.15535, 0.122643, 0.11791
    7, VALUE     , 단면7              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
        0.15224, 0.07, 0.06, 0.197374, 0.170912, 0.139223
        1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
    8, VALUE     , 단면8              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
        0.16064, 0.07, 0.06, 0.197374, 0.184078, 0.139223
        1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
    9, VALUE     , 단면9              , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.022, 2.5, 0.012, 0, 0, 0
        0.17416, 0.085, 0.06, 0.215213, 0.204463, 0.152937
        1.256, 1.256, 1.03826, 1.46174, 2.87054, 1.88193, 9.976, 9.908, 1.256, 1.46174
        -1.256, 1.244, 1.244, -1.256, 1.03826, 1.03826, -1.46174, -1.46174, 0.135567, 0.127105
   10, VALUE     , 단면10             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.566, 2.5, 0.012, 0.03, 2.5, 0.02, 0, 0, 0
        0.219584, 0.125, 0.061584, 0.264279, 0.291585, 0.182863
        1.256, 1.256, 1.11498, 1.45102, 4.02603, 1.54719, 10.108, 10.008, 1.256, 1.45102
        -1.256, 1.244, 1.244, -1.256, 1.11498, 1.11498, -1.45102, -1.45102, 0.190346, 0.153605
   11, VALUE     , 단면11             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.678, 2.5, 0.014, 0.038, 2.5, 0.028, 0, 0, 0
        0.277076, 0.165, 0.074984, 0.343493, 0.411141, 0.232017
        1.257, 1.257, 1.20343, 1.47457, 4.69771, 1.48648, 10.328, 10.196, 1.257, 1.47457
        -1.257, 1.243, 1.243, -1.257, 1.20343, 1.20343, -1.47457, -1.47457, 0.260452, 0.194545
   12, VALUE     , 단면12             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.82, 2.5, 0.014, 0.038, 2.5, 0.036, 0, 0, 0
        0.30272, 0.185, 0.07896, 0.379232, 0.503543, 0.251615
        1.257, 1.257, 1.38408, 1.43592, 5.53749, 1.44305, 10.612, 10.464, 1.257, 1.43592
        -1.257, 1.243, 1.243, -1.257, 1.38408, 1.38408, -1.43592, -1.43592, 0.30999, 0.211735
   13, VALUE     , 단면13             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.036, 2.5, 0.028, 0, 0, 0
        0.28036, 0.16, 0.084, 0.392075, 0.507188, 0.242437
        1.257, 1.257, 1.38014, 1.61986, 5.28166, 1.59733, 10.972, 10.844, 1.257, 1.61986
        -1.257, 1.243, 1.243, -1.257, 1.38014, 1.38014, -1.61986, -1.61986, 0.294249, 0.20276
   14, VALUE     , 단면14             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.028, 2.5, 0.02, 0, 0, 0
        0.23652, 0.12, 0.084, 0.357046, 0.404553, 0.215009
        1.257, 1.257, 1.35597, 1.64403, 4.23666, 1.8723, 10.972, 10.876, 1.257, 1.64403
        -1.257, 1.243, 1.243, -1.257, 1.35597, 1.35597, -1.64403, -1.64403, 0.236029, 0.17832
   15, VALUE     , 단면15             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
        0.19268, 0.08, 0.084, 0.300187, 0.302861, 0.187581
        1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
        -1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
   16, VALUE     , 단면16             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
        0.20108, 0.08, 0.084, 0.300187, 0.316788, 0.187581
        1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
        -1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
   17, VALUE     , 단면17             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.02, 0, 0, 0
        0.19268, 0.08, 0.084, 0.300187, 0.302861, 0.187581
        1.257, 1.257, 1.67993, 1.32007, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.32007
        -1.257, 1.243, 1.243, -1.257, 1.67993, 1.67993, -1.32007, -1.32007, 0.177492, 0.15388
   18, VALUE     , 단면18             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.028, 0, 0, 0
        0.242, 0.125, 0.084, 0.363619, 0.418465, 0.218437
        1.257, 1.257, 1.60538, 1.39462, 4.38537, 1.82831, 10.972, 10.872, 1.257, 1.39462
        -1.257, 1.243, 1.243, -1.257, 1.60538, 1.60538, -1.39462, -1.39462, 0.244869, 0.181375
   19, VALUE     , 단면19             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.034, 0, 0, 0
        0.25844, 0.14, 0.084, 0.373388, 0.452041, 0.228723
        1.257, 1.257, 1.69631, 1.30369, 4.71208, 1.71518, 10.972, 10.86, 1.257, 1.30369
        -1.257, 1.243, 1.243, -1.257, 1.69631, 1.69631, -1.30369, -1.30369, 0.260764, 0.19054
   20, VALUE     , 단면20             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
        0.17624, 0.065, 0.084, 0.280053, 0.267297, 0.177296
        1.257, 1.257, 1.54958, 1.45042, 2.83592, 2.80296, 10.972, 10.92, 1.257, 1.45042
        -1.257, 1.243, 1.243, -1.257, 1.54958, 1.54958, -1.45042, -1.45042, 0.15877, 0.144715
   21, VALUE     , 단면21             , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.8, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
        0.17064, 0.065, 0.0784, 0.252926, 0.229, 0.168447
        1.257, 1.257, 1.44806, 1.35194, 2.57621, 2.6676, 10.572, 10.52, 1.257, 1.35194
        -1.257, 1.243, 1.243, -1.257, 1.44806, 1.44806, -1.35194, -1.35194, 0.144222, 0.137715
   22, VALUE     , CB                 , CC, 0, 0, 0, 0, 0, 0, YES, H  , BUILT, 1.75, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0
        0.0282, 0.006, 0.021, 1.3536e-006, 0.0109478, 5.4252e-005
        0.15, 0.15, 0.875, 0.875, 0.633084, 0.01125, 4.652, 0, 0.15, 0.875
        -0.15, 0.15, 0.15, -0.15, 0.875, 0.875, -0.875, -0.875, 0.015194, 0.000602136
*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
   10, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   11, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   12, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   13, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   14, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   15, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   16, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   17, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   18, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   19, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   20, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   21, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
   22, 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
```

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; 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, SHAPE                                     ; 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, SHAPE                                     ; 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, SHAPE                                     ; 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, SHAPE                                     ; 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, VALUE     , 단면1          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.3, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
      0.14196, 0.06, 0.0552, 0.16781, 0.135945, 0.128222
      1.256, 1.256, 1.15, 1.15, 2.07752, 2.2181, 9.576, 9.528, 1.256, 1.15
      -1.256, 1.244, 1.244, -1.256, 1.15, 1.15, -1.15, -1.15, 0.0997211, 0.10578
   2, VALUE     , 단면2          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
      0.14676, 0.06, 0.06, 0.190213, 0.163358, 0.135795
      1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
      -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
   3, VALUE     , 단면3          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.014, 0, 0, 0
      0.15224, 0.065, 0.06, 0.197374, 0.172706, 0.139223
      1.256, 1.256, 1.29925, 1.20075, 2.44507, 2.22293, 9.976, 9.924, 1.256, 1.20075
      -1.256, 1.244, 1.244, -1.256, 1.29925, 1.29925, -1.20075, -1.20075, 0.117294, 0.114845
   4, VALUE     , 단면4          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
      0.15516, 0.06, 0.06, 0.190213, 0.175635, 0.135795
      1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
      -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
   5, VALUE     , 단면5          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.012, 0, 0, 0
      0.14676, 0.06, 0.06, 0.190213, 0.163358, 0.135795
      1.256, 1.256, 1.25, 1.25, 2.32132, 2.3437, 9.976, 9.928, 1.256, 1.25
      -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.111423, 0.11178
   6, VALUE     , 단면6          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.012, 2.5, 0.016, 0, 0, 0
      0.15772, 0.07, 0.06, 0.203131, 0.177964, 0.142651
      1.256, 1.256, 1.34465, 1.15535, 2.5613, 2.11941, 9.976, 9.92, 1.256, 1.15535
      -1.256, 1.244, 1.244, -1.256, 1.34465, 1.34465, -1.15535, -1.15535, 0.122643, 0.11791
   7, VALUE     , 단면7          , CC, 0, 0, 0, 0, 0, 0, YES, B  , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
      0.15224, 0.07, 0.06, 0.197374, 0.170912, 0.139223
      1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
```

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        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
     8, VALUE      , 단면8              , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.5, 2.5, 0.012, 0.014, 2.5, 0.014, 0, 0, 0
        0.16064, 0.07, 0.06, 0.197374, 0.184078, 0.139223
        1.256, 1.256, 1.25, 1.25, 2.57656, 2.11941, 9.976, 9.92, 1.256, 1.25
        -1.256, 1.244, 1.244, -1.256, 1.25, 1.25, -1.25, -1.25, 0.123675, 0.11791
     9, VALUE      , 단면9              , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.5, 2.5, 0.012, 0.022, 2.5, 0.012, 0, 0, 0
        0.17416, 0.085, 0.06, 0.215213, 0.204463, 0.152937
        1.256, 1.256, 1.03826, 1.46174, 2.87054, 1.88193, 9.976, 9.908, 1.256, 1.46174
        -1.256, 1.244, 1.244, -1.256, 1.03826, 1.03826, -1.46174, -1.46174, 0.135567, 0.127105
    10, VALUE      , 단면10             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.566, 2.5, 0.012, 0.03, 2.5, 0.02, 0, 0, 0
        0.219584, 0.125, 0.061584, 0.264279, 0.291585, 0.182863
        1.256, 1.256, 1.11498, 1.45102, 4.02603, 1.54719, 10.108, 10.008, 1.256, 1.45102
        -1.256, 1.244, 1.244, -1.256, 1.11498, 1.11498, -1.45102, -1.45102, 0.190346, 0.153605
    11, VALUE      , 단면11             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.678, 2.5, 0.014, 0.038, 2.5, 0.028, 0, 0, 0
        0.277076, 0.165, 0.074984, 0.343493, 0.411141, 0.232017
        1.257, 1.257, 1.20343, 1.47457, 4.69771, 1.48648, 10.328, 10.196, 1.257, 1.47457
        -1.257, 1.243, 1.243, -1.257, 1.20343, 1.20343, -1.47457, -1.47457, 0.260452, 0.194545
    12, VALUE      , 단면12             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.82, 2.5, 0.014, 0.038, 2.5, 0.036, 0, 0, 0
        0.30272, 0.185, 0.07896, 0.379232, 0.503543, 0.251615
        1.257, 1.257, 1.38408, 1.43592, 5.53749, 1.44305, 10.612, 10.464, 1.257, 1.43592
        -1.257, 1.243, 1.243, -1.257, 1.38408, 1.38408, -1.43592, -1.43592, 0.30999, 0.211735
    13, VALUE      , 단면13             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.036, 2.5, 0.028, 0, 0, 0
        0.28036, 0.16, 0.084, 0.392075, 0.507188, 0.242437
        1.257, 1.257, 1.38014, 1.61986, 5.28166, 1.59733, 10.972, 10.844, 1.257, 1.61986
        -1.257, 1.243, 1.243, -1.257, 1.38014, 1.38014, -1.61986, -1.61986, 0.294249, 0.20276
    14, VALUE      , 단면14             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.028, 2.5, 0.02, 0, 0, 0
        0.23652, 0.12, 0.084, 0.357046, 0.404553, 0.215009
        1.257, 1.257, 1.35597, 1.64403, 4.23666, 1.8723, 10.972, 10.876, 1.257, 1.64403
        -1.257, 1.243, 1.243, -1.257, 1.35597, 1.35597, -1.64403, -1.64403, 0.236029, 0.17832
    15, VALUE      , 단면15             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
        0.19268, 0.08, 0.084, 0.300187, 0.302861, 0.187581
        1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
        -1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
    16, VALUE      , 단면16             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.02, 2.5, 0.012, 0, 0, 0
        0.20108, 0.08, 0.084, 0.300187, 0.316788, 0.187581
        1.257, 1.257, 1.32007, 1.67993, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.67993
        -1.257, 1.243, 1.243, -1.257, 1.32007, 1.32007, -1.67993, -1.67993, 0.177492, 0.15388
    17, VALUE      , 단면17             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.02, 0, 0, 0
        0.19268, 0.08, 0.084, 0.300187, 0.302861, 0.187581
        1.257, 1.257, 1.67993, 1.32007, 3.1845, 2.42224, 10.972, 10.908, 1.257, 1.32007
        -1.257, 1.243, 1.243, -1.257, 1.67993, 1.67993, -1.32007, -1.32007, 0.177492, 0.15388
    18, VALUE      , 단면18             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.028, 0, 0, 0
        0.242, 0.125, 0.084, 0.363619, 0.418465, 0.218437
        1.257, 1.257, 1.60538, 1.39462, 4.38537, 1.82831, 10.972, 10.872, 1.257, 1.39462
        -1.257, 1.243, 1.243, -1.257, 1.60538, 1.60538, -1.39462, -1.39462, 0.244869, 0.181375
    19, VALUE      , 단면19             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.022, 2.5, 0.034, 0, 0, 0
        0.25844, 0.14, 0.084, 0.373388, 0.452041, 0.228723
        1.257, 1.257, 1.69631, 1.30369, 4.71208, 1.71518, 10.972, 10.86, 1.257, 1.30369
        -1.257, 1.243, 1.243, -1.257, 1.69631, 1.69631, -1.30369, -1.30369, 0.260764, 0.19054
    20, VALUE      , 단면20             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 3, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
        0.17624, 0.065, 0.084, 0.280053, 0.267297, 0.177296
        1.257, 1.257, 1.54958, 1.45042, 2.83592, 2.80296, 10.972, 10.92, 1.257, 1.45042
        -1.257, 1.243, 1.243, -1.257, 1.54958, 1.54958, -1.45042, -1.45042, 0.15877, 0.144715
    21, VALUE      , 단면21             , CC, 0, 0, 0, 0, 0, 0, YES, B   , BUILT, 2.8, 2.5, 0.014, 0.012, 2.5, 0.014, 0, 0, 0
        0.17064, 0.065, 0.0784, 0.252926, 0.229, 0.168447
        1.257, 1.257, 1.44806, 1.35194, 2.57621, 2.6676, 10.572, 10.52, 1.257, 1.35194
        -1.257, 1.243, 1.243, -1.257, 1.44806, 1.44806, -1.35194, -1.35194, 0.144222, 0.137715
    22, VALUE      , CB                 , CC, 0, 0, 0, 0, 0, 0, YES, H   , BUILT, 1.75, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0
        0.0282, 0.006, 0.021, 1.3536e-006, 0.0109478, 5.4252e-005
        0.15, 0.15, 0.875, 0.875, 0.633084, 0.01125, 4.652, 0, 0.15, 0.875
        -0.15, 0.15, 0.15, -0.15, 0.875, 0.875, -0.875, -0.875, 0.015194, 0.000602136
*STLDCASE     ; Static Load Cases
; LCNAME, LCTYPE, DESC
   고정하중, D ,
   슬래브하중, USER,
*CONSTRAINT      ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   61, 101000,
   23, 111000,
   39 49 76, 001000,
   1 11 38, 011000,
*OFFSET     ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj, RGDYj, RGDZj, GROUP   ; TYPE=GLOBAL
; ELEM_LIST, TYPE, RGDi, RGDj, GROUP                                  ; TYPE=ELEMENT
    75, ELEMENT, 1.25, 1.25,
    76, ELEMENT, 1.25, 1.25,
    77, ELEMENT, 1.25, 1.25,
    78, ELEMENT, 1.25, 1.25,
    79, ELEMENT, 1.25, 1.25,
    80, ELEMENT, 1.25, 1.25,
    81, ELEMENT, 1.25, 1.25,
    82, ELEMENT, 1.25, 1.25,
    83, ELEMENT, 1.25, 1.25,
    84, ELEMENT, 1.25, 1.25,
    85, ELEMENT, 1.25, 1.25,
    86, ELEMENT, 1.25, 1.25,
    87, ELEMENT, 1.25, 1.25,
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    89, ELEMENT, 1.25, 1.25,
    90, ELEMENT, 1.25, 1.25,
    91, ELEMENT, 1.25, 1.25,
    92, ELEMENT, 1.25, 1.25,
    93, ELEMENT, 1.25, 1.25,
    94, ELEMENT, 1.25, 1.25,
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    97, ELEMENT, 1.25, 1.25,
    98, ELEMENT, 1.25, 1.25,
    99, ELEMENT, 1.25, 1.25,
   100, ELEMENT, 1.25, 1.25,
   101, ELEMENT, 1.25, 1.25,
   102, ELEMENT, 1.25, 1.25,
   103, ELEMENT, 1.25, 1.25,
   104, ELEMENT, 1.25, 1.25,
   105, ELEMENT, 1.25, 1.25,
   106, ELEMENT, 1.25, 1.25,
   107, ELEMENT, 1.25, 1.25,
   108, ELEMENT, 1.25, 1.25,
   109, ELEMENT, 1.25, 1.25,
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   110, ELEMENT, 1.25, 1.25,
   111, ELEMENT, 1.25, 1.25,
   112, ELEMENT, 1.25, 1.25,
*USE-STLD, 고정하중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1.4359,
; End of data for load case [고정하중] ---------------------------
*USE-STLD, 슬래브하중
*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
     1, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     1, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     2, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     2, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     3, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     3, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     4, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     4, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     5, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     5, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     6, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     6, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     7, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     7, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     8, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     8, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
     9, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
     9, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    10, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    10, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    11, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    11, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    12, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    12, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    13, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    13, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    14, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    14, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    15, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    15, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    16, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    16, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    17, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    17, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    18, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    18, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    19, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    19, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    20, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    20, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    21, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    21, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    22, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    22, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    23, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    23, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    24, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    24, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    25, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    25, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    26, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    26, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    27, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    27, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    28, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    28, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    29, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    29, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    30, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    30, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    31, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    31, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    32, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    32, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    33, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    33, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    34, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    34, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    35, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    35, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    36, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    36, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    37, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.941, 1, -38.941, 0, 0, 0, 0, , NO, 0, 0, NO
    37, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 5.144, 1, 5.144, 0, 0, 0, 0, , NO, 0, 0, NO
    38, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.181, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    38, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    39, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    39, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    40, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    40, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    41, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    41, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    42, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    42, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    43, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    43, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
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    44, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
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    45, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    46, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    46, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    47, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
    47, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
    48, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
```

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     48, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     49, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     49, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     50, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     50, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     51, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     51, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     52, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     52, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     53, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     53, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     54, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     54, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     55, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     55, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     56, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     56, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     57, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     57, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     58, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     58, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     59, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     59, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     60, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     60, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     61, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     61, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     62, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     62, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     63, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     63, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     64, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     64, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     65, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     65, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     66, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     66, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     67, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     67, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     68, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     68, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     69, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     69, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     70, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     70, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
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     72, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
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     73, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
     73, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     74, BEAM    , UNIMOMENT, LX, NO , NO, aDir[1], , , , 0, 4.18, 1, 4.18, 0, 0, 0, 0, , NO, 0, 0, NO
     74, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -38.791, 1, -38.791, 0, 0, 0, 0, , NO, 0, 0, NO
; End of data for load case [슬래브하중] -------------------------
*LOADCOMB     ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE    ; line 1
;       ANAL1, LCNAME1, FACT1, ...                                    ; from line 2
   NAME=LC1, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 고정하중, 1, ST, 슬래브하중, 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, 93, 255, 87, 146, 0, 255, 0, 128, 57
 ST, 슬래브하중, 192, 192, 192, 0, 192, 128, 255, 255, 87
 CB, LC1, 128, 192, 0, 163, 160, 255, 128, 192, 0
*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, STEEL, SM490              , 1, KS10-Civil(S),            ,SM490
*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=1, YES
 0, 0, 0, 0
   SECT=2, YES
 0, 0, 0, 0
   SECT=3, YES
 0, 0, 0, 0
   SECT=4, YES
 0, 0, 0, 0
   SECT=5, YES
 0, 0, 0, 0
   SECT=6, YES
 0, 0, 0, 0
   SECT=7, YES
 0, 0, 0, 0
   SECT=8, YES
 0, 0, 0, 0
   SECT=9, YES
 0, 0, 0, 0
   SECT=10, YES
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 0, 0, 0, 0
   SECT=11, YES
 0, 0, 0, 0
   SECT=12, YES
 0, 0, 0, 0
   SECT=13, YES
 0, 0, 0, 0
   SECT=14, YES
 0, 0, 0, 0
   SECT=15, YES
 0, 0, 0, 0
   SECT=16, YES
 0, 0, 0, 0
   SECT=17, YES
 0, 0, 0, 0
   SECT=18, YES
 0, 0, 0, 0
   SECT=19, YES
 0, 0, 0, 0
   SECT=20, YES
 0, 0, 0, 0
   SECT=21, YES
 0, 0, 0, 0
   SECT=22, 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=1, YES
 0, 0
   SECT=2, YES
 0, 0
   SECT=3, YES
 0, 0
   SECT=4, YES
 0, 0
   SECT=5, YES
 0, 0
   SECT=6, YES
 0, 0
   SECT=7, YES
 0, 0
   SECT=8, YES
 0, 0
   SECT=9, YES
 0, 0
   SECT=10, YES
 0, 0
   SECT=11, YES
 0, 0
   SECT=12, YES
 0, 0
   SECT=13, YES
 0, 0
   SECT=14, YES
 0, 0
   SECT=15, YES
 0, 0
   SECT=16, YES
 0, 0
   SECT=17, YES
 0, 0
   SECT=18, YES
 0, 0
   SECT=19, YES
 0, 0
   SECT=20, YES
 0, 0
   SECT=21, YES
 0, 0
   SECT=22, YES
 0, 0
*ENDDATA
```

※ 자세한 입력자료 및 출력자료는 CD참조