

수기2교(하) INPUT

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; MIDAS/Civil Text(MCT) File.  
; Date : 2020/12/28  
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*VERSION  
8.1.5  
*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-LSD15(RC), SD300,  
KSCE-LSD15(RC), SD300  
*NODE : Nodes  
; iNO, X, Y, Z  
1, 0, 8.1, -0.525  
2, 0, 8.1, -0.925  
3, 0, 5.4, -0.525  
4, 0, 5.4, -0.925  
5, 0, 2.7, -0.525  
6, 0, 2.7, -0.925  
7, 0, 0, -0.525  
8, 0, 0, -0.925  
9, 34.5, 8.1, -0.525  
10, 34.5, 8.1, -0.925  
11, 34.5, 5.4, -0.525  
12, 34.5, 5.4, -0.925
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13, 34.5, 2.7, -0.525  
14, 34.5, 2.7, -0.925  
15, 34.5, 0, -0.525  
16, 34.5, 0, -0.925  
17, 35.45, 8.1, -0.525  
18, 35.45, 8.1, -0.925  
19, 35.45, 5.4, -0.525  
20, 35.45, 5.4, -0.925  
21, 35.45, 2.7, -0.525  
22, 35.45, 2.7, -0.925  
23, 35.45, 0, -0.525  
24, 35.45, 0, -0.925  
25, 69.5, 8.1, -0.525  
26, 69.5, 8.1, -0.925  
27, 69.5, 5.4, -0.525  
28, 69.5, 5.4, -0.925  
29, 69.5, 2.7, -0.525  
30, 69.5, 2.7, -0.925  
31, 69.5, 0, -0.525  
32, 69.5, 0, -0.925  
33, 70.45, 8.1, -0.525  
34, 70.45, 8.1, -0.925  
35, 70.45, 5.4, -0.525  
36, 70.45, 5.4, -0.925  
37, 70.45, 2.7, -0.525  
38, 70.45, 2.7, -0.925  
39, 70.45, 0, -0.525  
40, 70.45, 0, -0.925  
41, 105, 8.1, -0.525  
42, 105, 8.1, -0.925  
43, 105, 5.4, -0.525  
44, 105, 5.4, -0.925  
45, 105, 2.7, -0.525  
46, 105, 2.7, -0.925  
47, 105, 0, -0.525  
48, 105, 0, -0.925  
49, 78.75, 5.4, 0  
50, 87.5, 5.4, 0  
51, 96.25, 5.4, 0  
52, 8.7375, 8.1, 0  
53, 17.475, 8.1, 0
```

54, 26.2125, 8.1, 0	101, 43.7375, 2.7, 0
55, 43.7375, 8.1, 0	102, 26.2125, 5.4, 0
56, 52.475, 8.1, 0	103, 35, 0, 0
57, 61.2125, 8.1, 0	104, 70, 2.7, 0
58, 78.75, 8.1, 0	105, 0, 8.1, 0
59, 87.5, 8.1, 0	106, 26.2125, 0, 0
60, 96.25, 8.1, 0	107, 17.475, 2.7, 0
67, 34.95, 2.7, 0	108, 8.7375, 5.4, 0
68, 69.95, 5.4, 0	109, 0, 0, 0
69, 105, 8.1, 0	110, 35, 2.7, 0
70, 87.5, 0, 0	111, 70, 5.4, 0
71, 78.75, 2.7, 0	112, 8.7375, 0, 0
72, 61.2125, 5.4, 0	113, 96.25, 0, 0
73, 105, 0, 0	114, 87.5, 2.7, 0
74, 34.95, 5.4, 0	119, 34.975, 4.05, -0.925
75, 69.95, 8.1, 0	120, 69.975, 4.05, -0.925
76, 61.2125, 0, 0	121, 34.975, 4.05, -2.425
77, 52.475, 2.7, 0	122, 69.975, 4.05, -2.425
78, 43.7375, 5.4, 0	123, 34.975, 4.05, -4.425
79, 69.95, 0, 0	124, 69.975, 4.05, -4.425
80, 105, 2.7, 0	125, 34.975, 4.05, -8.689
81, 34.95, 8.1, 0	126, 69.975, 4.05, -8.622
82, 43.7375, 0, 0	127, 34.975, 4.05, -5.846333333333333
83, 26.2125, 2.7, 0	128, 34.975, 4.05, -7.267666666666667
84, 17.475, 5.4, 0	129, 69.975, 4.05, -5.824
85, 34.95, 0, 0	130, 69.975, 4.05, -7.223
86, 69.95, 2.7, 0	131, 34.5, 2.7, 0
87, 105, 5.4, 0	132, 34.5, 5.4, 0
88, 17.475, 0, 0	133, 34.5, 8.1, 0
89, 8.7375, 2.7, 0	134, 34.5, 0, 0
90, 96.25, 2.7, 0	135, 35.45, 5.4, 0
91, 0, 2.7, 0	136, 35.45, 8.1, 0
92, 35, 5.4, 0	137, 35.45, 0, 0
93, 70, 8.1, 0	138, 35.45, 2.7, 0
94, 78.75, 0, 0	155, 34.5, 4.05, -0.925
95, 61.2125, 2.7, 0	156, 35.45, 4.05, -0.925
96, 52.475, 5.4, 0	181, 69.5, 4.05, -0.925
97, 70, 0, 0	182, 70.45, 4.05, -0.925
98, 0, 5.4, 0	183, 69.5, 5.4, 0
99, 35, 8.1, 0	184, 69.5, 8.1, 0
100, 52.475, 0, 0	185, 69.5, 0, 0

186, 69.5, 2.7, 0	187, 0
187, 70.45, 8.1, 0	13, BEAM , 1, 2, 112,
188, 70.45, 0, 0	88, 0
189, 70.45, 2.7, 0	14, BEAM , 1, 2, 88,
190, 70.45, 5.4, 0	106, 0
*ELEMENT ; Elements	15, BEAM , 1, 2, 106,
; iEL, TYPE, iMAT, iPRO, iN1, iN2,	134, 0
ANGLE, iSUB, ;	16, BEAM , 1, 2, 82,
Frame Element	100, 0
; iEL, TYPE, iMAT, iPRO, iN1, iN2,	17, BEAM , 1, 2, 100,
ANGLE, iSUB, EXVAL, EXVAL2, bLMT ;	76, 0
Comp/Tens Truss	18, BEAM , 1, 2, 76,
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3,	185, 0
iN4, iSUB, iWID , LCAXIS ; Planar	19, BEAM , 1, 2, 94,
Element	70, 0
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3,	20, BEAM , 1, 2, 70,
iN4, iN5, iN6, iN7, iN8 ; Solid	113, 0
Element	21, BEAM , 1, 2, 113,
1, BEAM , 1, 2, 109,	73, 0
112, 0	22, BEAM , 1, 1, 89,
2, BEAM , 1, 2, 103,	107, 0
137, 0	23, BEAM , 1, 1, 107,
3, BEAM , 1, 2, 97,	83, 0
188, 0	24, BEAM , 1, 1, 83,
4, BEAM , 1, 1, 91,	131, 0
89, 0	25, BEAM , 1, 1, 101,
5, BEAM , 1, 1, 110,	77, 0
138, 0	26, BEAM , 1, 1, 77,
6, BEAM , 1, 1, 104,	95, 0
189, 0	27, BEAM , 1, 1, 95,
7, BEAM , 1, 1, 98,	186, 0
108, 0	28, BEAM , 1, 1, 71,
8, BEAM , 1, 1, 92,	114, 0
135, 0	29, BEAM , 1, 1, 114,
9, BEAM , 1, 1, 111,	90, 0
190, 0	30, BEAM , 1, 1, 90,
10, BEAM , 1, 2, 105,	80, 0
52, 0	31, BEAM , 1, 1, 108,
11, BEAM , 1, 2, 99,	84, 0
136, 0	32, BEAM , 1, 1, 84,
12, BEAM , 1, 2, 93,	102, 0

33, BEAM	,	1,	1,	102,	127,	0		
132,	0				54, BEAM	,	2,	10, 124,
34, BEAM	,	1,	1,	78,	129,	0		
96,	0				55, BEAM	,	2,	6, 127,
35, BEAM	,	1,	1,	96,	128,	0		
72,	0				56, BEAM	,	2,	6, 128,
36, BEAM	,	1,	1,	72,	125,	0		
183,	0				57, BEAM	,	2,	10, 129,
37, BEAM	,	1,	1,	49,	130,	0		
50,	0				58, BEAM	,	2,	10, 130,
38, BEAM	,	1,	1,	50,	126,	0		
51,	0				59, BEAM	,	1,	1, 131,
39, BEAM	,	1,	1,	51,	67,	0		
87,	0				60, BEAM	,	1,	1, 132,
40, BEAM	,	1,	2,	52,	74,	0		
53,	0				61, BEAM	,	1,	2, 133,
41, BEAM	,	1,	2,	53,	81,	0		
54,	0				62, BEAM	,	1,	2, 134,
42, BEAM	,	1,	2,	54,	85,	0		
133,	0				63, BEAM	,	1,	1, 135,
43, BEAM	,	1,	2,	55,	78,	0		
56,	0				64, BEAM	,	1,	2, 136,
44, BEAM	,	1,	2,	56,	55,	0		
57,	0				65, BEAM	,	1,	2, 137,
45, BEAM	,	1,	2,	57,	82,	0		
184,	0				66, BEAM	,	1,	1, 138,
46, BEAM	,	1,	2,	58,	101,	0		
59,	0				67, BEAM	,	1,	8, 105,
47, BEAM	,	1,	2,	59,	98,	0		
60,	0				68, BEAM	,	1,	8, 98,
48, BEAM	,	1,	2,	60,	91,	0		
69,	0				69, BEAM	,	1,	8, 91,
49, BEAM	,	2,	4,	119,	109,	0		
121,	0				70, BEAM	,	1,	7, 52,
50, BEAM	,	2,	4,	120,	108,	0		
122,	0				71, BEAM	,	1,	7, 108,
51, BEAM	,	2,	5,	121,	89,	0		
123,	0				72, BEAM	,	1,	7, 89,
52, BEAM	,	2,	5,	122,	112,	0		
124,	0				73, BEAM	,	1,	7, 53,
53, BEAM	,	2,	6,	123,	84,	0		

74, BEAM	,	1,	7,	84,	68,	0		
107,	0				101, BEAM	,	1,	9, 68,
75, BEAM	,	1,	7,	107,	86,	0		
88,	0				102, BEAM	,	1,	9, 86,
76, BEAM	,	1,	7,	54,	79,	0		
102,	0				103, BEAM	,	1,	8, 93,
77, BEAM	,	1,	7,	102,	111,	0		
83,	0				104, BEAM	,	1,	8, 111,
78, BEAM	,	1,	7,	83,	104,	0		
106,	0				105, BEAM	,	1,	8, 104,
82, BEAM	,	1,	9,	81,	97,	0		
74,	0				106, BEAM	,	1,	7, 58,
83, BEAM	,	1,	9,	74,	49,	0		
67,	0				107, BEAM	,	1,	7, 49,
84, BEAM	,	1,	9,	67,	71,	0		
85,	0				108, BEAM	,	1,	7, 71,
85, BEAM	,	1,	8,	99,	94,	0		
92,	0				109, BEAM	,	1,	7, 59,
86, BEAM	,	1,	8,	92,	50,	0		
110,	0				110, BEAM	,	1,	7, 50,
87, BEAM	,	1,	8,	110,	114,	0		
103,	0				111, BEAM	,	1,	7, 114,
91, BEAM	,	1,	7,	55,	70,	0		
78,	0				112, BEAM	,	1,	7, 60,
92, BEAM	,	1,	7,	78,	51,	0		
101,	0				113, BEAM	,	1,	7, 51,
93, BEAM	,	1,	7,	101,	90,	0		
82,	0				114, BEAM	,	1,	7, 90,
94, BEAM	,	1,	7,	56,	113,	0		
96,	0				115, BEAM	,	1,	9, 69,
95, BEAM	,	1,	7,	96,	87,	0		
77,	0				116, BEAM	,	1,	9, 87,
96, BEAM	,	1,	7,	77,	80,	0		
100,	0				117, BEAM	,	1,	9, 80,
97, BEAM	,	1,	7,	57,	73,	0		
72,	0				118, BEAM	,	1,	1, 183,
98, BEAM	,	1,	7,	72,	68,	0		
95,	0				119, BEAM	,	1,	2, 184,
99, BEAM	,	1,	7,	95,	75,	0		
76,	0				120, BEAM	,	1,	2, 185,
100, BEAM	,	1,	9,	75,	79,	0		

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121, BEAM , 1, 1, 186, 0, 0, 255, NO, 0.5
86, 0 2, 255, 0, 0, 0, 255, 0,
122, BEAM , 1, 2, 187, 0, 0, 255, NO, 0.5
58, 0 *SECTION ; Section
123, BEAM , 1, 2, 188, ; iSEC, TYPE, SNAME, [OFFSET], bSD,
94, 0 bWE, SHAPE, [DATA1], [DATA2]
124, BEAM , 1, 1, 189, ; 1st line - DB/USER
71, 0 ; iSEC, TYPE, SNAME, [OFFSET], bSD,
125, BEAM , 1, 1, 190, bWE, SHAPE, BLT, D1, ..., D8, iCEL
49, 0 ; 1st line - VALUE
*MATERIAL ; Material ; AREA, ASy, ASz, Ixx, Iyy, Izz
; iMAT, TYPE, MNAME, SPHEAT, ; 2nd line
HEATCO, PLAST, TUNIT, bMASS, ; CyP, CyM, CzP, CzM, QyB, QzB,
DAMP, RATIO, [DATA1] ; PERI_OUT, PERI_IN, Cy, Cz
STEEL, CONC, USER ; 3rd line
; iMAT, TYPE, MNAME, SPHEAT, ; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4,
HEATCO, PLAST, TUNIT, bMASS, Zyy, Zzz
DAMP, RATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, STANDARD, ; 4th line
CODE/PRODUCT, DB, USEELAST, ; iSEC, TYPE, SNAME, [OFFSET], bSD,
ELAST bWE, SHAPE, ELAST, DEN, POIS, POIC,
; [DATA1] : 2, ELAST, POISN, SF, THERMAL ; 1st line - SRC
THERMAL, DEN, MASS ; D1, D2, [SRC]
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, ; 2nd line
Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, ; iSEC, TYPE, SNAME, [OFFSET], bSD,
MASS ; Orthotropic bWE, SHAPE, 1, DB, NAME1, NAME2,
; [DATA2] : 1, STANDARD, D1, D2 ; 1st line - COMBINED
CODE/PRODUCT, DB, USEELAST, ; iSEC, TYPE, SNAME, [OFFSET], bSD,
ELAST or 2, ELAST, POISN, THERMAL, bWE, SHAPE, 2, D11, D12, D13, D14,
DEN, MASS D15, D21, D22, D23, D24
1, USER , C27(상부) , 0, 0, , ; iSEC, TYPE, SNAME, [OFFSET2], bSD,
C, NO, 0.05, 2, 2.6681e+007, 0.18, bWE, SHAPE, iyVAR, izVAR, STYPE
1.0000e-005, 0, 0 ; 1st line - TAPERED
2, USER , C24(하부) , 0, 0, , ; DB, NAME1, NAME2
C, YES, 0.05, 2, 2.5791e+007, 0.18, ; 2nd line(STYPE=DB)
1.0000e-005, 24.5166, 2.5 ; [DIM1], [DIM2]
*MATL-COLOR ; 2nd line(STYPE=USER)
; iMAT, W_R, W_G, W_B, HF_R, HF_G, ; D11, D12, D13, D14, D15, D16,
HF_B, HE_R, HE_G, HE_B, bBLEND,
FACT
1, 255, 0, 0, 0, 255, 0,

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D17,	D18	:	[SIZE-A]-i
; 2nd line(STYPE=VALUE)			
:	AREA1, ASy1, ASz1, lxx1, lyy1,	:	5th line(STYPE=PSC)
I	z z 1	:	[SIZE-B]-i
; 3rd line(STYPE=VALUE)			
:	CyP1, CyM1, CzP1, CzM1, QyB1,	:	6th line(STYPE=PSC)
QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1	:	[SIZE-C]-i	
; 4th line(STYPE=VALUE)			
:	Y11, Y12, Y13, Y14, Z11, Z12,	:	7th line(STYPE=PSC)
Z13, Z14, Zyy1, Zyy2	:	[SIZE-D]-i	
; 5th line(STYPE=VALUE)			
:	D21, D22, D23, D24, D25, D26,	:	8th line(STYPE=PSC)
D27, D28	:	[SIZE-A]-j	
; 6th line(STYPE=VALUE)			
:	AREA2, ASy2, ASz2, lxx2, lyy2,	:	9th line(STYPE=PSC)
I	z z 2	:	[SIZE-B]-j
; 7th line(STYPE=VALUE)			
:	CyP2, CyM2, CzP2, CzM2, QyB2,	:	10th line(STYPE=PSC)
QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2	:	[SIZE-C]-j	
; 8th line(STYPE=VALUE)			
:	Y21, Y22, Y23, Y24, Z21, Z22,	:	11th line(STYPE=PSC)
Z23, Z24, Zyy2, Zzz2	:	[SIZE-D]-j	
; 9th line(STYPE=VALUE)			
:	OPT1, OPT2, [JOINT]	:	12th line(STYPE=PSC)
; 2nd line(STYPE=PSC)			
:	ELAST, DEN, POIS, POIC,	:	2nd line(STYPE=CMP-B/I)
T H E R M A L	:	SW_i, Hw_i, tw_i, B_i, Bf1_i,	
; 2nd line(STYPE=PSC-CMPW)			
:	bSHEARCHK, [SCHK-I],	:	SW_j, Hw_j, tw_j, B_j, Bf1_j,
[SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM,	tf1_i, B2_i, Bf2_i, tf2_i	:	tf1_j, B2_j, Bf2_j, tf2_j
bSIDEHOLE ; 3rd line(STYPE=PSC)	:	:	4th line(STYPE=CMP-B/I)
:	bSHEARCHK, bSYM, bHUNCH,	:	N1, N2, Hr, Hr2, tr1, tr2
[CMPWEB-I], [CMPWEB-J]	:	:	5th line(STYPE=CMP-B)
; 3rd line(STYPE=PSC-CMPW)			
:	bUSERDEFMESH SIZE,	:	GN, CTC, Bc, Tc, Hh, EgdEsb,
MESH SIZE, bUSERINPSTIFF, [STIFF-I],	DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j	:	2nd line(STYPE=CMP-CI/CT)
[STIFF-J] ; 4th	:	:	OPT1, OPT2, [JOINT]
line(STYPE=PSC)			

; 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, bWE, 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, bWE, SHAPE ; 1st line - COMPOSITE-B ; Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2 ; 2nd line ; [SHAPE-NUM], [STIFF-SHAPE],	[STIFF-POS] (1~4) ; 3rd line ; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh ; 4th line ; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE ; 1st line - COMPOSITE-I ; Hw, tw, B1, tf1, B2, tf2 ; 2nd line ; [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~2) ; 3rd line ; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh ; 4th line ; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE ; 1st line - COMPOSITE-TUB ; Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2, Bf3, tfp ; 2nd line ; [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3) ; 3rd line ; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh ; 4th line ; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE ; 1st line - COMPOSITE-CI/CT ; OPT1, OPT2, [JOINT] ; 2nd line ; [SIZE-A] ; 3rd line ; [SIZE-B]
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; 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, bWE, SHAPE ; 1st line - PSC ; OPT1, OPT2, [JOINT] ; 2nd line ; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd line ; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th line ; bWE, [WARPING POINT]-i, [WARPING POINT]-j ; 5th line ; [SIZE-A] ; 6th line ; [SIZE-B] ; 7th line ; [SIZE-C] ; 8th line ; [SIZE-D] ; 9th 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 ; [SHAPE-NUM]: SHAPE-NUM, POS, STIFF-NUM1, STIFF-NUM2, STIFF-NUM3, STIFF-NUM4 ; [STIFF-SHAPE]: SHAPE-NUM, for(SHAPE-NUM) { NAME, SIZE1~8 } ; [STIFF-POS]: STIFF-NUM, for(STIFF-NUM) { SPACING, iSHAPE, bCALC } ; [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
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; [WARPING POINT] : nWarpingCheck,
 X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
 1, VALUE , Preflex 단면(중앙부),
 CC, 0, 0, 0, 0, 0, 0, YES, SB , BUILT,
 0, 0, 0, 0, 0, 0, 0, 0
 0.705, 0.492822, 0.304361,
 0.0286206, 0.41105, 0.09948
 0.55, 0.55, 0.627009, 0.422991,
 0.327317, 0.0734723, 5.40623, 0, 0.55,
 0.422991
 -0.5, 0.5, 0.55, -0.55, 0.627009,
 0.627009, -0.422991, -0.422991, 0, 0
 2, VALUE , Preflex 단면(단부),
 CC, 0, 0, 0, 0, 0, 0, YES, SB , BUILT,
 0, 0, 0, 0, 0, 0, 0, 0
 0.705, 0.492822, 0.304361,
 0.0286206, 0.34281, 0.09667
 0.55, 0.55, 0.627009, 0.422991,
 0.327317, 0.0734723, 5.40623, 0, 0.55,
 0.422991
 -0.5, 0.5, 0.55, -0.55, 0.627009,
 0.627009, -0.422991, -0.422991, 0, 0
 4, DBUSER , Coping - 1 ,
 CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.5,
 9.7, 0, 0, 0, 0, 0, 0, 0, 0
 5, TAPERED , Coping - 2 ,
 CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1,
 1, USER
 2.5, 9.7, 0, 0, 0, 0, 0, 0, 2.5,
 3.6, 0, 0, 0, 0, 0, 0
 6, DBUSER , Pier-1 ,
 CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5,
 0, 0, 0, 0, 0, 0, 0, 0
 7, DBUSER , Cross Beam - 중앙
 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2,
 0.65, 0.3, 0, 0, 0, 0, 0, 0, 0
 8, DBUSER , Cross Beam - 지점
 (A1), LC, 0, 0, 0, 0, 0, 0, YES, SB , 2,
 0.85, 0.7, 0, 0, 0, 0, 0, 0, 0
 9, DBUSER , Cross Beam - 지점
 (A2), RC, 0, 0, 0, 0, 0, 0, YES, SB , 2,

0.85, 0.7, 0, 0, 0, 0, 0, 0, 0
 10, DBUSER , Pier-2 ,
 CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5,
 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
 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
 *SECT-SCALE : Section Stiffness
 Scale Factor
 ; iSEC, AREA_SF, ASY_SF, ASZ_SF,
 IXX_SF, IYY_SF, IZZ_SF, WGT_SF,
 GROUP, iPart, bDiffIJ ; line 1
 ; J1, J2, J3, J4, J5, J6, J7
 ; line 2 (bDiffIJ=YES)
 6, 1, 1, 1, 1, 0.344, 0.344, 1, , 1,
 NO
 10, 1, 1, 1, 1, 0.344, 0.344, 1, , 1,
 NO
 *DGN-SECT
 ; iSEC, TYPE, SNAME, [OFFSET], bSD,
 bWE, SHAPE, [DATA1], [DATA2]

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; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD,
bWE, 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,
bWE, SHAPE, ELAST, DEN, POIS, POIC,
SF, THERMAL ; 1st line - SRC
; D1, D2, [SRC]

; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD,
bWE, SHAPE, 1, DB, NAME1, NAME2,
D1, D2 ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD,
bWE, SHAPE, 2, D11, D12, D13, D14,
D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD,
bWE, SHAPE, iyVAR, izVAR, STYPE
; 1st line - TAPERED
; DB, NAME1, NAME2

; 2nd line(STYPE=DB)
; [DIM1], [DIM2]

; 2nd line(STYPE=USER)
; D11, D12, D13, D14, D15, D16,
D17, D18
; 2nd line(STYPE=VALUE)
; AREA1, ASy1, ASz1, Ixx1, Iyy1,
I z z 1
; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1,

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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,
I z z 2
; 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,
T H E R M A L
; 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,
[CMPEWEB-I], [CMPEWEB-J]
; 3rd
line(STYPE=PSC-CMPW)
; bUSERDEFMESH SIZE,
MESH SIZE, bUSERINPSTIFF, [STIFF-I],
[STIFF-J] ; 4th
line(STYPE=PSC)
; [SIZE-A]-i

; 5th line(STYPE=PSC)
; [SIZE-B]-i

; 6th line(STYPE=PSC)

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; [SIZE-C]-i ; 5th line(STYPE=CMP-CI/CT)
; [SIZE-C]-i
; 7th line(STYPE=PSC)
; [SIZE-D]-i ; 6th line(STYPE=CMP-CI/CT)
; [SIZE-D]-i
; 8th line(STYPE=PSC)
; [SIZE-A]-j ; 7th line(STYPE=CMP-CI/CT)
; [SIZE-A]-j
; 9th line(STYPE=PSC)
; [SIZE-B]-j ; 8th line(STYPE=CMP-CI/CT)
; [SIZE-B]-j
; 10th line(STYPE=PSC)
; [SIZE-C]-j ; 9th line(STYPE=CMP-CI/CT)
; [SIZE-C]-j
; 11th line(STYPE=PSC)
; [SIZE-D]-j ; 10th line(STYPE=CMP-CI/CT)
; [SIZE-D]-j
; 12th line(STYPE=PSC)
; GN, CTC, Bc, Tc, Hh, EsEc, ; 11th line(STYPE=CMP-CI/CT)
DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ; iSEC, TYPE, SNAME, [OFFSET], bSD,
; 2nd line(STYPE=CMP-B/I) bWE, STYPE1, STYPE2
; SW_i, Hw_i, tw_i, B_i, Bf1_i, ; 1st line - CONSTRUCT
tf1_i, B2_i, Bf2_i, tf2_i ; SHAPE, ...(same with other type
; 3rd line(STYPE=CMP-B/I) data from shape)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, ; Before (STYPE1)
tf1_j, B2_j, Bf2_j, tf2_j ; SHAPE, ...(same with other type
; 4th line(STYPE=CMP-B/I) data from shape)
; N1, N2, Hr, Hr2, tr1, tr2 ; After (STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD,
; 5th line(STYPE=CMP-B) bWE, SHAPE
; GN, CTC, Bc, Tc, Hh, EgDsb, ; 1st line - COMPOSITE-B
DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2
; 2nd line(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 2nd line
; [SHAPE-NUM], [STIFF-SHAPE],
; 3rd line(STYPE=CMP-CI/CT) [STIFF-POS] (1~4)
; [SIZE-A]-i ; 3rd line
; SW, GN, CTC, Bc, Tc, Hh, EsEc,
; 4th line(STYPE=CMP-CI/CT) DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh
; [SIZE-B]-i ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD,

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bWE,	SHAPE	; 6th line
; 1st line - COMPOSITE-I		; SW, GN, CTC, Bc, Tc, Hh,
; Hw, tw, B1, tf1, B2, tf2		EgdEsb, DgdDsb, Pgd, Psb
		; 7th line
; 2nd line		; iSEC, TYPE, SNAME, [OFFSET], bSD,
; [SHAPE-NUM], [STIFF-SHAPE],	bWE,	SHAPE
[STIFF-POS] (1~2)		; 1st line - PSC
; 3rd line		; OPT1, OPT2, [JOINT]
; SW, GN, CTC, Bc, Tc, Hh, EsEc,		
DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh		; 2nd line
; 4th line		; bSHEARCHK, [SCHK], [WT],
; iSEC, TYPE, SNAME, [OFFSET], bSD,	WIDTH,	bSYM, bSIDEHOLE
bWE,		; 3rd line
; 1st line - COMPOSITE-TUB		; bUSERDEFMESH SIZE,
; Hw, tw, B1, Bf1, tf1, B2, Bf2,	MESH SIZE,	bUSERINPSTIFF, [STIFF]
tf2, Bf3, tfp		; 4th line
; 2nd line		; bWE, [WARPING POINT]-i,
; [SHAPE-NUM], [STIFF-SHAPE],	[WARPING	POINT]-j
[STIFF-POS] (1~3)		; 5th line
; 3rd line		[SIZE-A]
; SW, GN, CTC, Bc, Tc, Hh, EsEc,		
DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh	; 6th line	
; 4th line		[SIZE-B]
; iSEC, TYPE, SNAME, [OFFSET], bSD,		
bWE,	SHAPE	; 7th line
; 1st line -		[SIZE-C]
COMPOSITE-CI/CT		
; OPT1, OPT2, [JOINT]	; 8th line	
		[SIZE-D]
; 2nd line		
; [SIZE-A]	; 9th line	
; 3rd line	; [DATA1] : 1, DB, NAME or 2, D1, D2,	
; [SIZE-B]	D3, D4, D5, D6, D7, D8, D9, D10	
; 4th line	; [DATA2] : CCSHAPE or iCEL or iN1,	
; [SIZE-C]	iN2	
; 5th line	; [SRC] : 1, DB, NAME1, NAME2 or 2,	
; [SIZE-D]	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,	

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iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF,
iHORZ, HUSERI, HUSERJ, iVERT,
VUSERI, VUSERJ
; [SHAPE-NUM]: SHAPE-NUM, POS,
STIFF-NUM1, STIFF-NUM2,
STIFF-NUM3, STIFF-NUM4
; [STIFF-SHAPE]: SHAPE-NUM,
for(SHAPE-NUM) { NAME, SIZE1~8 }
; [STIFF-POS]: STIFF-NUM,
for(STIFF-NUM) { SPACING, iSHAPE,
bCALC }
; [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
; [WARPING POINT] : nWarpingCheck,
X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
4, DBUSER, Coping - 1,
CC, 0, 0, 0, 0, 0, 0, YES, SB, 2, 2.5,
9.7, 0, 0, 0, 0, 0, 0, 0, 0
5, TAPERED, Coping - 2,

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CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB, 1,
1, USER
2.5, 9.7, 0, 0, 0, 0, 0, 0, 2.5,
3.6, 0, 0, 0, 0, 0, 0
6, DBUSER, Pier-1,
CC, 0, 0, 0, 0, 0, 0, YES, SR, 2, 2.5,
0, 0, 0, 0, 0, 0, 0, 0, 0
7, DBUSER, Cross Beam - 중앙,
CC, 0, 0, 0, 0, 0, 0, YES, SB, 2,
0.65, 0.3, 0, 0, 0, 0, 0, 0, 0
8, DBUSER, Cross Beam - 지점
(A1), LC, 0, 0, 0, 0, 0, 0, YES, SB, 2,
0.85, 0.7, 0, 0, 0, 0, 0, 0, 0
9, DBUSER, Cross Beam - 지점
(A2), RC, 0, 0, 0, 0, 0, 0, YES, SB, 2,
0.85, 0.7, 0, 0, 0, 0, 0, 0, 0
10, DBUSER, Pier-2,
CC, 0, 0, 0, 0, 0, 0, YES, SR, 2, 2.5,
0, 0, 0, 0, 0, 0, 0, 0, 0
*DGN-SECT-PSCVALUE ; Design
Section of PSC Value
; SECT=iSEC, TYPE, SNAME, [OFFSET],
bSD, bWE, SHAPE, bBU, bEQ,
SNAME2(PSC VAL) ; 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

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<pre> ; 7th line(COMPOSITE-PC) ; OPOLY=X1, Y1, X2, Y2, ..., Xn, Y n ; Outer Polygon(PLANE) ; IPOLY=X1, Y1, X2, Y2, ..., Xn, Y n ; Inner Polygon(PLANE) ; ... ; IPOLY=X1, Y1, X2, Y2, ..., Xn, Y n ; Inner Polygon(PLANE) ; VERTEX=X1, Y1, X2, Y2, ..., Xn, Y n ; Vertex(General-LINE) ; LINE=VI1, VJ1, dTHIK1, iALIGN1 ; Line(General-LINE) ; ... ; LINE=VIn, VJn, dTHIKn, iALIGNn ; Line(General-LINE) ; LOOP=COUNT1, LIX11, LIX12, ..., L I X n ; Line(General-LINE) ; ... ; LOOP=COUNTn, LIXn1, LIXn2, ..., L I X n n ; Line(General-LINE) ; SECT=iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR, izVAR, bEQ ; 1st line - TAPERED ; ; 2nd line ; ; 3rd line ; ; 4th line </pre>	<pre> ; [STIFF1-I] ; 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, i A L I G N 1 ; Line(General-LINE) ; ... ; LINE=bI, VIn, VJn, dTHIKn, i A L I G N n ; Line(General-LINE) ; LOOP=bI, COUNT1, LIX11, LIX12, ..., LIXn ; Line(General-LINE) ; ... ; LOOP=bI, COUNTn, LIXn1, LIXn2, ..., LIXnn </pre>
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; Line(General-LINE)
; SECT=iSEC, TYPE, SNAME, [OFFSET],
bSD, bWE, SHAPE, bBU, bEQ, BPRT
; 1st line - COMPOSITE-GEN
; [PART1]

; 2nd line
; [PART2]

; 3rd line
; ...
; SECT=iSEC, TYPE, SNAME,
[OFFSET2], bSD, bWE, 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), V11, 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=    1, VALUE      , Preflex 단면
(중앙부), CC, 0, 0, 0, 0, 0, 0, YES, GEN,
YES, YES
        0.705,      0.492822,      0.304361,
0.0286206, 0.41105, 0.09948
        0.55, 0.55, 0.627009, 0.422991,
0.327317, 0.0734723, 5.40623, 0, 0.55,
0.422991
        -0.5, 0.5, 0.55, -0.55, 0.627009,
0.627009, -0.422991, -0.422991
        OPOLY=-0.55, -0.0229905, -0.55,
-0.422991, 0.55, -0.422991, 0.55,
-0.0229905
        0.15, -0.0229905, 0.15,
0.427009, 0.5, 0.627009, -0.5, 0.627009
        -0.15, 0.427009, -0.15,
-0.0229905
    SECT=    2, VALUE      , Preflex 단면
(단부), CC, 0, 0, 0, 0, 0, 0, YES, GEN,
YES, YES
        0.705,      0.492822,      0.304361,
0.0286206, 0.34281, 0.09667
        0.55, 0.55, 0.627009, 0.422991,
0.327317, 0.0734723, 5.40623, 0, 0.55,
0.422991
        -0.5, 0.5, 0.55, -0.55, 0.627009,
0.627009, -0.422991, -0.422991
        OPOLY=-0.55, -0.0229905, -0.55,
-0.422991, 0.55, -0.422991, 0.55,
-0.0229905
        0.15, -0.0229905, 0.15,
0.427009, 0.5, 0.627009, -0.5, 0.627009
        -0.15, 0.427009, -0.15,
-0.0229905
*FIBER-MATL      ; Inelastic Material
Properties
;      NAME,      TYPE,      [CONC]
;

```

```

TYPE=CONC
;      NAME,      TYPE,      [STEEL]
;
TYPE=STEEL
; [CONC] HMODEL, FC, Eco, K, Z, Ecu,
PartialFact
;
HMODEL=KPM
; [CONC] HMODEL, FC, EPEAK,
P a r t i a l F a c t
; HMODEL=JCSSM
; [CONC] HMODEL, iEQ, Ec, sck, ssy, a,
sbt, Ah, s, d, b, nSTR
;
HMODEL=JRSM
; [CONC] HMODEL, Ec, sck, ssy, a, sbt,
Ah, s, d, b, nSTR
;
HMODEL=JRSMH24
; [CONC] HMODEL, sck, ecc, K, ecu,
eto, etu, et1
;
HMODEL=NHCM
; [CONC] HMODEL, iIM, sc1, sc2, sc3,
e, et1, etu, [TCM]
;
HMODEL=TCM
; [CONC] HMODEL, FCR, FTR, ECR,
ETR, EC
;
HMODEL=CHINA (GB50010-10)
; [CONC] HMODEL, nConc, bfco', fco',
beco, eco, nEc, Ec,
...
;
HMODEL=MANDER
; [CONC] ... nft', ft', et, nSectRebar,
bAcc, Acc, bAe, Ae,
...
;
HMODEL=MANDER
; [CONC] ... bke, ke, bfl, fl, bfcc, fcc,
becc, ecc, becyc, ecy,
...
;
HMODEL=MANDER
; [CONC] ... nRect, nCirc, bc, wxi, n,
dc, wyj, m, ds,
...
;
HMODEL=MANDER
; [CONC] ... nLR, nRNum, sR, RA,
bpcc, pcc, nGR, sG, GA,
...
;
HMODEL=MANDER
; [CONC] ... s, s', nGNumX, nGNumY,

```

```

GAsx, GAsy          ...   ;      SD300      [KSCE-LSD15(RC)_SD300],
HMODEL=MANDER
; [CONC] ... bfyh, fyh, bAsx, bAsy, bpx,
px, bpy, py          ...   ;      *STLDCASE      ; Static Load Cases
HMODEL=MANDER
; [CONC] ... bflx, flx, bfly, fly, bfyh,
fyh, bR, bps, ps          ;      ; LCNAME, LCTYPE, DESC
HMODEL=MANDER
; [STEEL] HMODEL, FY, E, B,
P a r t i a l F a c t
; HMODEL=MPM
; [STEEL] HMODEL, FY, E1, E2/E1,
PartialFact          ;
HMODEL=BM
; [STEEL] HMODEL, sy, scy, e1, e2, E1,
E2, E3, E4, E5          ;
HMODEL=GBM
; [STEEL] HMODEL, iIM, s1y, s2y, s3y,
S1y, S2y, S3y, [TSM]          ;
HMODEL=TSM
; [STEEL] HMODEL, fy, fu, Es, Esh, Esu
;
HMODEL=PM
; [STEEL] HMODEL, Sig_sy, Es, est
;
HMODEL=JRSM_S
; [TCM] ec1, ec2, ec3, ecu
; iIM=0
; [TCM] K1, K2/K1, K3/K1, ecu
; iIM=1
; [TSM] e1y, e2y, e3y
; iIM=0
; [TSM] K1, K2/K1, K3/K1
; iIM=1
C24, CONC, MANDER, 0, YES, 24000,
YES, 0.004, 0, 2.44949e+007, 2, 0, 0, 0,
NO, 0, NO, 0, NO, 0, NO, 0, NO, 0, NO,
0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, NO, 0,
NO, NO, NO, 0, NO, 0, NO, 0, NO, 0,
NO, 0, NO, NO, 0
SD300 [KSCE-LSD15(RC)_SD300],
STEEL, PM, 300000, 440000, 200000000,
0.0115, 0.125
*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
DL , D ,
*CONSTRAINT ; Supports
; NODE_LIST,
CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
2to8by2 42to48by2 125 126, 111111,
*ELASTICLINK ; Elastic Link
; iNO, iNODE1, iNODE2, LINK, ANGLE,
R_SDx, R_SDy, R_SDz, R_SRx, R_SRY,
R_SRz, SDx, SDy, SDz, SRx, SRy, SRz
...
; bSHEAR, DRy,
DRz, GROUP
;
GEN
; iNO, iNODE1, iNODE2, LINK, ANGLE,
bSHEAR, DRy, DRz, GROUP
;
RIGID,SADDLE
; iNO, iNODE1, iNODE2, LINK, ANGLE,
SDx, bSHEAR, DRy, DRz, GROUP
;
TENS,COMP
; iNO, iNODE1, iNODE2, LINK, ANGLE,
DIR, FUNCTION, bSHEAR, DRENDI,
G R O U P
; MULTI LINEAR
1, 1, 2, GEN , 0,
1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
0.5,
2, 3, 4, GEN , 0,
1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
0.5,
3, 5, 6, GEN , 0,
1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
0.5,
4, 7, 8, GEN , 0,

```

1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 5, 9, 10, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 6, 11, 12, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 7, 13, 14, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 8, 15, 16, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 9, 17, 18, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 10, 19, 20, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 11, 21, 22, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 12, 23, 24, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 13, 25, 26, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 14, 27, 28, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 15, 29, 30, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 16, 31, 32, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 17, 33, 34, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,

18, 35, 36, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 19, 37, 38, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 20, 39, 40, GEN , 0,
 1.27e+006, 2520, 2520, 0, 0, 0, NO, 0.5,
 0.5,
 21, 41, 42, GEN , 0,
 890000, 1760, 1760, 0, 0, 0, NO, 0.5,
 0.5,
 22, 43, 44, GEN , 0,
 890000, 1760, 1760, 0, 0, 0, NO, 0.5,
 0.5,
 23, 45, 46, GEN , 0,
 890000, 1760, 1760, 0, 0, 0, NO, 0.5,
 0.5,
 24, 47, 48, GEN , 0,
 890000, 1760, 1760, 0, 0, 0, NO, 0.5,
 0.5,
 25, 105, 1, RIGID, 0, NO,
 0.5, 0.5,
 26, 98, 3, RIGID, 0, NO,
 0.5, 0.5,
 27, 91, 5, RIGID, 0, NO,
 0.5, 0.5,
 28, 109, 7, RIGID, 0, NO,
 0.5, 0.5,
 29, 133, 9, RIGID, 0, NO,
 0.5, 0.5,
 30, 132, 11, RIGID, 0, NO,
 0.5, 0.5,
 31, 131, 13, RIGID, 0, NO,
 0.5, 0.5,
 32, 134, 15, RIGID, 0, NO,
 0.5, 0.5,
 33, 136, 17, RIGID, 0, NO,
 0.5, 0.5,
 34, 135, 19, RIGID, 0, NO,
 0.5, 0.5,

35,	138,	21, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				56,	28,	181, RIGID,	0, NO,
36,	137,	23, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				57,	181,	30, RIGID,	0, NO,
37,	10,	12, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				58,	30,	32, RIGID,	0, NO,
38,	12,	155, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				59,	34,	36, RIGID,	0, NO,
39,	155,	14, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				60,	36,	182, RIGID,	0, NO,
40,	14,	16, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				61,	182,	38, RIGID,	0, NO,
41,	18,	20, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				62,	38,	40, RIGID,	0, NO,
42,	20,	156, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				63,	181,	120, RIGID,	0, NO,
43,	156,	22, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				64,	120,	182, RIGID,	0, NO,
44,	22,	24, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				65,	69,	41, RIGID,	0, NO,
45,	155,	119, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				66,	87,	43, RIGID,	0, NO,
46,	119,	156, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				67,	80,	45, RIGID,	0, NO,
47,	184,	25, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				68,	73,	47, RIGID,	0, NO,
48,	183,	27, RIGID,	0, NO,	0.5, 0.5,			
0.5, 0.5,				; DIR, bNODAL, bBEAM, bFLOOR,			
49,	186,	29, RIGID,	0, NO,	bPRES, GRAV			
0.5, 0.5,				; LCNAME1, FACTOR1, LCNAME2,			
50,	185,	31, RIGID,	0, NO,	FACTOR2, ... ; from line 1			
0.5, 0.5,				*LOADTOMASS, XYZ, YES, YES, YES,			
51,	187,	33, RIGID,	0, NO,	YES, 9.806			
0.5, 0.5,				DL, 1			
52,	190,	35, RIGID,	0, NO,	*USE-STLD, DL			
0.5, 0.5,				; X, Y, Z, GROUP			
53,	189,	37, RIGID,	0, NO,	*SELFWEIGHT, 0, 0, -1,			
0.5, 0.5,				*BEAMLOAD ; Element Beam Loads			
54,	188,	39, RIGID,	0, NO,	; ELEM_LIST, CMD, TYPE, DIR, bPROJ,			
0.5, 0.5,				[ECCEN], [VALUE], GROUP			
55,	26,	28, RIGID,	0, NO,	; 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,
 A D D I T I O N A L _ I - E N D ,
 A D D I T I O N A L _ J - E N D ,
 bADDITIONAL_J-END
 1, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 2, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 3, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 4, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 5, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 6, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 7, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 8, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 9, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 10, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 11, BEAM , UNILoad, GZ, NO ,

NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 12, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 13, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 14, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 15, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 16, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 17, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 18, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 19, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 20, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 21, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 22, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 23, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO
 24, BEAM , UNILoad, GZ, NO ,
 NO, aDir[1], , , , 0, -49.84, 1, -49.84,
 0, 0, 0, 0, , NO, 0, 0, NO

```

25, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

26, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

27, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

28, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

29, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

30, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

31, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

32, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

33, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

34, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

35, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

36, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```

37, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -49.84, 1, -49.84,
0, 0, 0, 0, , NO, 0, 0, NO

```

```
38, BEAM      , UNILoad, GZ, NO ,
NO, aDir[1], , , , 0, -49.84, 1, -49.84,
```

NO, aDir[1], , , , 0, -49.84, 1, -49.84,	; FUNC=NAME, iTYPE, iMETHOD,
0, 0, 0, 0, , NO, 0, 0, NO	SCALE/MAX, GRAV, DRATIO, DESC,
63, BEAM , UNILoad, GZ, NO ,	RMF ; line 1
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	; SPEC_CODE, [CODE_DATA]
0, 0, 0, 0, , NO, 0, 0, NO	; line 2
64, BEAM , UNILoad, GZ, NO ,	; PERIOD1, VALUE1, PERIOD2,
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	VALUE2, ... ;
0, 0, 0, 0, , NO, 0, 0, NO	from line 3
65, BEAM , UNILoad, GZ, NO ,	:[CODE_DATA] : NSC, SFI, SC, EQ, TG,
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	DP, MaxEQ
0, 0, 0, 0, , NO, 0, 0, NO	
66, BEAM , UNILoad, GZ, NO ,	; CH2001
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	:[CODE_DATA] : NSC, SFI, SC, EQ, TG,
0, 0, 0, 0, , NO, 0, 0, NO	DP, MaxEQ, nLForce ;
118, BEAM , UNILoad, GZ, NO ,	CH2010
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	:[CODE_DATA] : SFI, SC, EQ, TG, DP,
0, 0, 0, 0, , NO, 0, 0, NO	MaxEQ ;
119, BEAM , UNILoad, GZ, NO ,	CHSH2003
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	:[CODE_DATA] : DIV, SC, SFI, EQ, TG,
0, 0, 0, 0, , NO, 0, 0, NO	G ;
120, BEAM , UNILoad, GZ, NO ,	GB50111_2006
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	:[CODE_DATA] : BT, ZM, ST, SI, SC,
0, 0, 0, 0, , NO, 0, 0, NO	TG, CI, CS, CD, EPA, SMAX, PERIOD ;
121, BEAM , UNILoad, GZ, NO ,	JTG/T B02-01-2008
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	:[CODE_DATA] : iSPE, SParam, TB, TC,
0, 0, 0, 0, , NO, 0, 0, NO	TD, AG, Q, IF, FPX, FPY ;
122, BEAM , UNILoad, GZ, NO ,	P100-1(2013)
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	FUNC=KDS(17-10-00:2018), 1, 0, 1,
0, 0, 0, 0, , NO, 0, 0, NO	9.806, 0.05, "KDS(17-10-00:2018):
123, BEAM , UNILoad, GZ, NO ,	Z=ZoneI(0.11),I=1.40,Site=S2", 1.000000
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	USER
0, 0, 0, 0, , NO, 0, 0, NO	0.000000, 0.2156,
124, BEAM , UNILoad, GZ, NO ,	0.060000, 0.4504340249
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	0.082629, 0.539,
0, 0, 0, 0, , NO, 0, 0, NO	0.120000, 0.539
125, BEAM , UNILoad, GZ, NO ,	0.180000, 0.539,
NO, aDir[1], , , , 0, -49.84, 1, -49.84,	0.240000, 0.539
0, 0, 0, 0, , NO, 0, 0, NO	0.300000, 0.539,
; End of data for load case [DL]	0.360000, 0.539
-----	0.413143, 0.539,
*SFUNCTION ; Spectrum Function	0.420000, 0.5302

0.480000,	0.463925,	2.940000, 0.075742857143
0.540000, 0.41237777778		3.000000, 0.074228,
0.600000,	0.37114,	3.060000, 0.071345636294
0.660000, 0.3374		3.120000, 0.06862795858,
0.720000,	0.30928333333,	3.180000, 0.066062655749
0.780000, 0.28549230769		3.240000, 0.063638545953,
0.840000,	0.2651,	3.300000, 0.061345454545
0.900000, 0.24742666667		3.360000, 0.059174107143,
0.960000,	0.2319625,	3.420000, 0.057116035703
1.020000, 0.21831764706		3.480000, 0.055163495838,
1.080000,	0.20618888889,	3.540000, 0.053309393852
1.140000, 0.19533684211		3.600000, 0.051547222222,
1.200000,	0.18557,	3.660000, 0.049871002419
1.260000, 0.17673333333		3.720000, 0.048275234131,
1.320000,	0.1687,	3.780000, 0.046754850088
1.380000, 0.16136521739		3.840000, 0.045305175781,
1.440000,	0.15464166667,	3.900000, 0.043921893491
1.500000, 0.148456		3.960000, 0.042601010101,
1.560000,	0.14274615385,	4.020000, 0.041338828247
1.620000, 0.13745925926		4.080000, 0.040131920415,
1.680000,	0.13255,	4.140000, 0.03897710565
1.740000, 0.12797931034		4.200000, 0.037871428571,
1.800000,	0.12371333333,	4.260000, 0.036812140448
1.860000, 0.11972258065		4.320000, 0.035796682099,
1.920000,	0.11598125,	4.380000, 0.034822668418
1.980000, 0.11246666667		4.440000, 0.033887874361,
2.040000,	0.10915882353,	4.500000, 0.032990222222
2.100000, 0.10604		4.560000, 0.032127770083,
2.160000,	0.10309444444,	4.620000, 0.031298701299
2.220000, 0.10030810811		4.680000, 0.030501314924,
2.280000,	0.097668421053,	4.740000, 0.029734016984
2.340000, 0.095164102564		4.800000, 0.0289953125,
2.400000,	0.092785,	4.860000, 0.028283798201
2.460000, 0.09052195122		4.920000, 0.02759815586,
2.520000,	0.088366666667,	4.980000, 0.026937146175
2.580000, 0.086311627907		5.040000, 0.026299603175,
2.640000,	0.08435,	5.100000, 0.025684429066
2.700000, 0.082475555556		5.160000, 0.025090589508,
2.760000,	0.080682608696,	5.220000, 0.024517109261
2.820000, 0.078965957447		5.280000, 0.023963068182,
2.880000,	0.077320833333,	5.340000, 0.023427597526

5.400000,	0.022909876543,	KDS(17-10-00:2018)
5.460000, 0.022409129332		YES, 1,YES, 1,YES, 1,YES,
5.520000,	0.021924621928,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.580000, 0.021455659614		1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.640000,	0.021001584427,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.700000, 0.020561772853		1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.760000,	0.020135633681,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.820000, 0.019722606016		1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.880000,	0.019322157434,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
5.940000, 0.018933782267		1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
6.000000,	0.018557	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,
*SPLDCASE ; Spectrum Load Cases		1,YES, 1
; NAME=NAME, DIR, ANGLE, SCALE,	NAME=Y-dir, XY, 90, 1, 1, NO, NO,	
PMFT, bDAMP, bECC, INTERP, DESC,	LOG,	
; line 1	CQC, NO, 0, YES	
; COMTYPE, bADDSIGN,	KDS(17-10-00:2018)	
iSIGNTYPE, bMODE	YES, 1,YES, 1,YES, 1,YES,	
; line 2	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; FUNC1, FUNC2, FUNC3, ...	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; line 3	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; bUSE1, dFACTOR1, bUSE2,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
dFACTOR2, ..., bUSEn, dFACTORn	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; line 4 (bMODE=YES)	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; bCDR, [DR-DC]	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; line 5	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
(bDAMP=YES)	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	
; [DR-DC] : iMDTYPE, DALL, iMODE1,	1,YES, 1	
DAMPING1, iMODE2, DAMPING2, ...	*LC-COLOR ; Diagram Color for	
; iMDTYPE=1	Load Case	
; : iMDTYPE, iCOEF, bMASSP,	; ANAL, LCNAME, iR1(ALL), iG1(ALL),	
MASSC, bSTIFFP, STIFFC ;	iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN),	
iMDTYPE=2, iCOEF=1	iR3(MAX), iG2(MAX), iB2(MAX)	
; : iMDTYPE, iCOEF, iCALC,	ST, DL, 255, 87, 87, 0, 128, 57, 255,	
bMASSP, FP1, DR1, bSTIFFP, FP2, DR2	128, 0	
; iMDTYPE=2, iCOEF=2	RS, X-dir, 255, 0, 192, 128, 192, 0,	
; : iMDTYPE	255, 160, 255	
; :	RS, Y-dir, 85, 192, 0, 255, 255, 87, 0,	
iMDTYPE=3	157, 192	
NAME=X-dir, XY, 0, 1, 1, NO, NO,	*EIGEN-CTRL ; Eigenvalue Analysis	
LOG,	Control	
CQC, NO, 0, YES	; TYPE, iFREQ, iITER, iDIM, TOL,	

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bMINMAX, FRMIN, FRMAX, bSTRUM ; FY(R), FYS
TYPE=EIGEN 2, CONC , C24(하부) , 1,
; TYPE, bINCNL, iGNUM KSCE-LSD15(RC), ,C24
; , NO, 1, , , 0, 0, 16800, NO, 0, 0
TYPE=RITZ(line 1) *SECTION MANAGER-GROUP & PART
; KIND1, CASE1/GROUND1, ; Section Manager - Group & Part
iNOG1, ... ; ; SECT = NO, bSAMEJ
TYPE=RITZ(from line2)
RITZ, NO, 0 ; line 1
GROUND, ACCX, 25, GROUND, ; GRPDISIZE, GRPDJSIZE,
ACCY, 25 PARTISIZE, PARTJSIZE
*DGN-MATL ; Modify Steel(Concrete) ; line 2
Material ;
; iMAT, TYPE, MNAME, [DATA1] .....
; ; STEEL ..... ;
; iMAT, TYPE, MNAME, [DATA2], ; LOOP UTIL (GRPDISIZE,
[R-DATA], FCI, bSERV, SHORT, LONG ; G R P D J S I Z E )
CONC ;
; iMAT, TYPE, MNAME, [DATA3], ; GROUPID, GROUPNAME,
[DATA2], [R-DATA] ; G R O U P T Y P E
SRC ; line n
; iMAT, TYPE, MNAME, [DATA5] ;
; .....
STEEL(None) & KSCE-ASD05 ..... ;
; [DATA1] : 1, DB, CODE, NAME or 2, ; LOOP UTIL (PARTISIZE,
ELAST, POISN, FU, FY1, FY2, FY3, FY4 P A R T J S I Z E )
; FY5, FY6, AFT, AFT2, ;
AFT3, FY, AFV, AFV2, AFV3 ; PARTTYPE, GROUPID,
; [DATA2] : 1, DB, CODE, NAME or 2, PARTNAME, PARTSHAPE, bSTIFFENER
FC, CHK, LAMBDA ; line n
; [DATA3] : 1, DB, CODE, NAME or 2, ; LINESIZE, LINEINDEX[i].....
ELAST, FU, FY1, FY2, FY3, FY4 ;
; FY5, FY6, AFT, AFT2, line n
AFT3, FY, AFV, AFV2, AFV3 ;
; [DATA4] : 1, DB, CODE, NAME or 2, .....
FC ..... ;
; [DATA5] : 3, ELAST, POISN, AL1, SECT=1, YES
AL2, AL3, AL4, AL5, AL6, AL7, AL8, 0, 0, 0, 0
AL9, AL10 *SECTION MANAGER-STIFFENER ;
; MIN1, MIN2, MIN3 Section Manager - Stiffener
; [R-DATA]: RBCODE, RBMAIN, RBSUB, ; SECT = NO, bSAMEJ

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; line 1
;          STFNISIZE, STFNJSIZE

; line 2
;
.....
..... ;
;          LOOP UTIL (STFNISIZE,
S   T   F   N   J   S   I   Z   E   )
;
;          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
*ENDDATA

```