

MIDAS

PROJECT TITLE : 논산철안 1중시설물 경밀안전진단 용역				
	Company	(주)풍우기술단	Client	
	Author	부설연구소	File Name	검상교-상행선

: MIDAS/Civil Text(MCT) File.
: Date : 2013/6/18

*VERSION
8.1.5

*UNIT : Unit System
: FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, C

*PROJ INFO : Project Information
USER=Windows 사용자
ADDRESS=d

*REBAR-MATL-CODE : Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD240, KS01-Civil(RC), SD240

*NODE : Nodes
: INO, X, Y, Z
101, 0, 7.5111, 0
102, 2.01965625, 8.8995875, 0
103, 4.0393125, 10.288075, 0
104, 8.078625, 13.06505, 0
105, 12.1179375, 15.842025, 0
106, 16.15725, 18.619, 0
107, 20.1965625, 21.395975, 0
108, 24.235875, 24.17295, 0
109, 28.2751875, 26.949925, 0
110, 31.9009939011181, 29.4426199154702, 0
111, 32.3145, 29.7269, 0
112, 36.31905, 32.66624, 0
113, 40.3236, 35.60558, 0
114, 44.32815, 38.54492, 0
115, 48.3327, 41.48428, 0
116, 52.33725, 44.4236, 0
117, 56.3418, 47.36294, 0
118, 60.34635, 50.30228, 0
119, 64.3509, 53.24162, 0
120, 68.35545, 56.18096, 0
121, 71.9025038456735, 58.7844977684511, 0
122, 72.36, 59.1203, 0
123, 76.2448125, 62.1273875, 0
124, 80.129625, 65.134475, 0
125, 84.0144375, 68.1415625, 0
126, 87.89925, 71.14865, 0
127, 91.7840625, 74.1557375, 0
128, 95.688875, 77.162825, 0
129, 99.5536875, 80.1699125, 0
130, 103.4385, 83.177, 0
201, 2.5224, 0, 0
202, 6.3186927222601, 2.6003943455517, 0
203, 6.5884625, 2.786525, 0
204, 8.32071733514666, 3.97366154905871, 0

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205, 10.654525, 5.57305, 0
206, 12.3867798351467, 6.76018654905871, 0
207, 14.7205875, 8.359575, 0
208, 16.4528423351467, 9.54671154905871, 0
209, 18.78665, 11.1461, 0
210, 20.5189048351467, 12.3332365490587, 0
211, 22.8527125, 13.932625, 0
212, 24.5849673351467, 15.1197615490587, 0
213, 26.918775, 16.71915, 0
214, 28.6510298351467, 17.9062865490587, 0
215, 30.9848375, 19.505675, 0
216, 32.7170923351467, 20.6928115490587, 0
217, 34.6968121467426, 22.049539036972, 0
218, 35.0509, 22.2322, 0
219, 36.7454793907719, 23.5325228161939, 0
220, 39.07952, 25.24089, 0
221, 40.7740993907719, 26.4812128161939, 0
222, 43.10814, 28.18958, 0
223, 44.8027193907719, 29.4299028161939, 0
224, 47.13676, 31.13827, 0
225, 48.8313393907719, 32.3785928161939, 0
226, 51.16538, 34.08696, 0
227, 52.8599593907719, 35.3272828161939, 0
228, 55.194, 37.03565, 0
229, 56.8865793907719, 38.2759728161939, 0
230, 59.22262, 39.98434, 0
231, 60.9171993907719, 41.2246628161939, 0
232, 63.25124, 42.93303, 0
233, 64.9458193907719, 44.1733528161939, 0
234, 67.27986, 45.88172, 0
235, 68.9744393907719, 47.1220428161939, 0
236, 71.30848, 48.83041, 0
237, 73.0030593907719, 50.0707328161939, 0
238, 74.939721551654, 51.4882446061298, 0
239, 75.3371, 51.7791, 0
240, 76.9990357470918, 53.0628326717578, 0
241, 79.2401125, 54.7939125, 0
242, 80.9020482470918, 56.0776451717578, 0
243, 83.143125, 57.808725, 0
244, 84.8050607470918, 59.0924576717578, 0
245, 87.0461375, 60.8235375, 0
246, 88.7080732470918, 62.1072701717578, 0
247, 90.94915, 63.83835, 0
248, 92.6110857470918, 65.1220826717578, 0
249, 94.8521625, 66.8531625, 0
250, 96.5140982470918, 68.1368951717578, 0
251, 98.755175, 69.867975, 0
252, 100.417110747092, 71.1517076717578, 0
253, 102.6581875, 72.8827875, 0
254, 104.320123247092, 74.1665201717578, 0
255, 106.5612, 75.8978, 0
501, 1.2612, 3.75555, 0
502, 4.168259611113, 5.74999092277859, 0
503, 6.18001491757333, 7.13086827452936, 0
504, 10.2327024175733, 9.91261827452936, 0
505, 14.2853899175733, 12.6943682745294, 0

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506, 18.3380774175733, 15.4761182745294, 0
507, 22.3907649175733, 18.2576882745294, 0
508, 26.4434524175733, 21.0386182745294, 0
509, 30.4961398175733, 23.8213682745294, 0
510, 33.2989030239305, 25.7460794745837, 0
511, 34.5299896953859, 26.629711408097, 0
512, 38.5465746953859, 29.573726408097, 0
513, 42.5631596953859, 32.517741408097, 0
514, 46.5797446953859, 35.461756408097, 0
515, 50.5963296953859, 38.405771408097, 0
516, 54.6129146953859, 41.349766408097, 0
517, 58.6294996953859, 44.293801408097, 0
518, 62.6460846953859, 47.237816408097, 0
519, 66.6626696953859, 50.181831408097, 0
520, 70.6792546953859, 53.125849408097, 0
521, 73.421112696638, 55.136311972905, 0
522, 74.6795178735459, 56.0915663358789, 0
523, 78.5734303735459, 59.1025163358789, 0
524, 82.4673428735459, 62.1134663358789, 0
525, 86.361253735459, 65.1244163358789, 0
526, 90.2551678735459, 68.1353663358789, 0
527, 94.1490803735459, 71.1463163358789, 0
528, 98.0429928735459, 74.1572663358789, 0
529, 101.936905373546, 77.1682163358789, 0
530, 104.99985, 79.5373, 0

*ELEMENT : Elements
: IEL, TYPE, IMAT, IPRD, IN1, IN2, ANGLE, ISUB, EXVAL, iOPT(EXVAL2) : Frame Element
: IEL, TYPE, IMAT, IPRD, IN1, IN2, ANGLE, ISUB, EXVAL2, bLMT : Comp/Tens Truss
: IEL, TYPE, IMAT, IPRD, IN1, IN2, IN3, IN4, ISUB, iWID : Planar Element
: IEL, TYPE, IMAT, IPRD, IN1, IN2, IN3, IN4, IN5, IN6, IN7, IN8 : Solid Element
: IEL, TYPE, IMAT, IPRD, IN1, IN2, REF, RPX, RPY, RPZ, ISUB, EXVAL : Frame(Ref. Point)
101, BEAM , 1, 11, 101, 102, 0
102, BEAM , 1, 11, 102, 103, 0
103, BEAM , 1, 11, 103, 104, 0
104, BEAM , 1, 12, 104, 105, 0
105, BEAM , 1, 12, 105, 106, 0
106, BEAM , 1, 12, 106, 107, 0
107, BEAM , 1, 12, 107, 108, 0
108, BEAM , 1, 13, 108, 109, 0
109, BEAM , 1, 14, 109, 110, 0
110, BEAM , 1, 14, 110, 111, 0
111, BEAM , 1, 14, 111, 112, 0
112, BEAM , 1, 13, 112, 113, 0
113, BEAM , 1, 15, 113, 114, 0
114, BEAM , 1, 11, 114, 115, 0
115, BEAM , 1, 11, 115, 116, 0
116, BEAM , 1, 11, 116, 117, 0
117, BEAM , 1, 11, 117, 118, 0
118, BEAM , 1, 15, 118, 119, 0
119, BEAM , 1, 13, 119, 120, 0
120, BEAM , 1, 14, 120, 121, 0
121, BEAM , 1, 14, 121, 122, 0
122, BEAM , 1, 14, 122, 123, 0
123, BEAM , 1, 13, 123, 124, 0
124, BEAM , 1, 12, 124, 125, 0

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125, BEAM , 1, 12, 125, 126, 0
126, BEAM , 1, 12, 126, 127, 0
127, BEAM , 1, 12, 127, 128, 0
128, BEAM , 1, 11, 128, 129, 0
129, BEAM , 1, 11, 129, 130, 0
201, BEAM , 1, 11, 201, 202, 0
202, BEAM , 1, 11, 202, 203, 0
203, BEAM , 1, 11, 203, 204, 0
204, BEAM , 1, 11, 204, 205, 0
205, BEAM , 1, 12, 205, 206, 0
206, BEAM , 1, 12, 206, 207, 0
207, BEAM , 1, 12, 207, 208, 0
208, BEAM , 1, 12, 208, 209, 0
209, BEAM , 1, 12, 209, 210, 0
210, BEAM , 1, 12, 210, 211, 0
211, BEAM , 1, 12, 211, 212, 0
212, BEAM , 1, 12, 212, 213, 0
213, BEAM , 1, 13, 213, 214, 0
214, BEAM , 1, 13, 214, 215, 0
215, BEAM , 1, 14, 215, 216, 0
216, BEAM , 1, 14, 216, 217, 0
217, BEAM , 1, 14, 217, 218, 0
218, BEAM , 1, 14, 218, 219, 0
219, BEAM , 1, 14, 219, 220, 0
220, BEAM , 1, 13, 220, 221, 0
221, BEAM , 1, 13, 221, 222, 0
222, BEAM , 1, 15, 222, 223, 0
223, BEAM , 1, 15, 223, 224, 0
224, BEAM , 1, 11, 224, 225, 0
225, BEAM , 1, 11, 225, 226, 0
226, BEAM , 1, 11, 226, 227, 0
227, BEAM , 1, 11, 227, 228, 0
228, BEAM , 1, 11, 228, 229, 0
229, BEAM , 1, 11, 229, 230, 0
230, BEAM , 1, 11, 230, 231, 0
231, BEAM , 1, 11, 231, 232, 0
232, BEAM , 1, 15, 232, 233, 0
233, BEAM , 1, 15, 233, 234, 0
234, BEAM , 1, 13, 234, 235, 0
235, BEAM , 1, 13, 235, 236, 0
236, BEAM , 1, 14, 236, 237, 0
237, BEAM , 1, 14, 237, 238, 0
238, BEAM , 1, 14, 238, 239, 0
239, BEAM , 1, 14, 239, 240, 0
240, BEAM , 1, 14, 240, 241, 0
241, BEAM , 1, 13, 241, 242, 0
242, BEAM , 1, 13, 242, 243, 0
243, BEAM , 1, 12, 243, 244, 0
244, BEAM , 1, 12, 244, 245, 0
245, BEAM , 1, 12, 245, 246, 0
246, BEAM , 1, 12, 246, 247, 0
247, BEAM , 1, 12, 247, 248, 0
248, BEAM , 1, 12, 248, 249, 0
249, BEAM , 1, 12, 249, 250, 0
250, BEAM , 1, 12, 250, 251, 0
251, BEAM , 1, 11, 251, 252, 0

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Print Date/Time : 06/18/2013 16:18

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: ITYPE, GRUP-NAME : (When ITYPE=1)
0, 101 110 121 201 217 238, END-I
0, 109 120 129 216 237 254, END-J

*VEHICLE : Vehicles
: if Moving Load Code is China : standard
: NAME=NAME, 1, TYPE-NAME, CODE : user: line 1
: NAME=NAME, 2, LTYPE, [TRUCK/LANE] or [TRAIN/SUBWAY] or [CROWD] : user: from line 2
: : LOAD1, DIST1, LOAD2, DIST2, ... : truck(JTG)
: [TRUCK/LANE] : 1, P, Qm, Qq : lane load1
: [TRUCK/LANE] : 2, P, Qm, Qq : lane load2
: [TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2 : crawler type
: [TRUCK/LANE] : 4, dW, dD : GC type load
: [TRUCK/LANE] : 5 : train-type1,3
: [TRAIN/SUBWAY] : ITYPE, W1, D1, W2, D2 : train-type2
: [TRAIN/SUBWAY] : ITYPE, DD, FD, BD, MAINCOUNT : subway
: [TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, D3, P4, dD, Po, n, IFR : crowd-type1
: [CROWD] : 1, dW1 : crowd-type2
: [CROWD] : 2, dW1, dL1, dW2, dL2, WIDTH
: if Moving Load Type is India : standard
: NAME=NAME, 1, TYPE-NAME, CODE : user: line 1
: NAME=NAME, 2, bWTB, P, D, Pb, Db, dD1, dD2, NDIST : user: line 1
: NAME=NAME, 2, bWTB, dD1, dD2, NDIST : user: from line 2
: : LOAD1, DIST1, LOAD2, DIST2, ...
: if Moving Load Code is CANADA : standard
: NAME=NAME, 1, TYPE-NAME, DLA, CODE, [DYNA] : user: line 1
: NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST, [DYNA] : user: from line 2
: : LOAD1, DIST1, LOAD2, DIST2, ... : Dynamic Load Allowance
: [DYNA] : nDYNA, FACT1AXLE, FACT2AXLE, FACT3AXLE
: if Moving Load Code is BS : standard
: NAME=NAME, 1, TYPE-NAME, CODE, UNITNUM : HA, HA & HB, HA & HB(Auto)
: NAME=nLane, FACTOR1, FACTOR2, FACTOR3, FACTOR4 : user(BS 5400)
: NAME=NAME, 2, ISTYPE, W1, W2, W3, L, Pa, Pb, D1, D2, d, UNITNUM : user(BS B037/01)
: NAME=NAME, 2, ISTYPE, [B037/01-HA], [B037/01-HB] : user(Pedestrian)
: NAME=NAME, 2, ISTYPE, W, L
: [BS-DATA-HA] : W1, W2, W3, EXP, L1, L2, Pa
: [BS-DATA-HB] : Pb, D1, D2, d, UNITNUM
: if Moving Load Code is EUROCODE : standard (LM1, FLM1)
: NAME=NAME, 1, ITYPE, TYPE-NAME, PSY1, PSY2, PHI, [AF7] : standard (others)
: NAME=NAME, 1, ITYPE, TYPE-NAME, bDF, bU, PHI, PSY, ADJ, IN : user(Type 1)
: NAME=NAME, 2, 1, [AF7] : user(Type 1): line 2
: : [LOAD7], D, PHI, TPSY, UPSY : user(Type 2)
: NAME=NAME, 2, 2, ALP, TPSY, W, BET, LPSY, P1, D1, P2, D2, ... : user(Type 3)
: NAME=NAME, 2, 3 : user(Type 3): line 2
: : [LOADCASE1] : user(Type 3): line 3
: : [LOADCASE2] : user(Type 3): line 3
: : [LOADCASE3] : user(Type 3): line 4
: : [LOADCASE4] : user(Type 4)
: NAME=NAME, 2, 4, WS, V, AN, MINS, MAXS, DYF, U1, F, P1, D1, P2, D2, ... : user(Type 5)
: NAME=NAME, 2, 5, INT, bPHI1, PHI1, bPHI2, PHI2 : user(Type 5): line 2
: : [VEHICLE1] : user(Type 5): line 3
: : [VEHICLE2] : user(Type 5): line 4
: : [VEHICLE3] : adjustment factor
: : [AF7] : TF1, TF2, TF3, UF1, UF2, UF3, UF4 : tandem/udl loads
: : [LOAD7] : TL1, TL2, TL3, UL1, UL2, UL3, UL4 : load case
: : [LOADCASE] : bUSE, N, bDF, bU1, PHI, P1, L1, P2, L2, ... : vehicle
: : [VEHICLE] : bUSE, N, P1, L1, P2, L2, ...

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: if Moving Load Code is RUSSIA : standard (SK)
: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC : standard (SK FATIGUE)
: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC : standard (AK)
: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC : standard (N14)
: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC : standard (N11)
: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC : standard (SUBWAY TRAINS)
: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC : standard (TRAMCARS)
: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC : standard (NK-80)
: NAME=NAME, 1, ITYPE, W, D, nDYNAFAC, dDYNAFAC : standard (NG-60)
: NAME=NAME, 1, ITYPE, BRIDGETYPE, W : standard (UNIFORM LOAD)
: NAME=NAME, 1, ITYPE, BRIDGETYPE, W : standard (UNIFORM LOAD(W/O OTHER LOADS))
: : NAME=NAME, 1, ITYPE, BRIDGETYPE, P : standard (CONCENTRATED LOAD (W/O OTHER LOADS))
: NAME=NAME, 2, ITYPE, W, nDYNAFAC, dDYNAFAC : user (Type 1)
: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC : user (Type 2)
: NAME=NAME, 2, ITYPE, Variable, nDYNAFAC, dDYNAFAC : user (Type 3)
: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC : user (Type 4)
: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC : user (Type 5)
: NAME=NAME, 2, ITYPE, W, D, nDYNAFAC, dDYNAFAC : user (Type 6)
: NAME=NAME, 2, ITYPE, P, W : user (Type 7)
: if Moving Load Code is KSCE-LS012 : standard
: NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC, CODE : user: line 1
: : LOAD1, DIST1, LOAD2, DIST2, ... : user: from line 2
: if Moving Load Code is AASHTO LRFD, CANADA and Load Type is Permit Truck : user(Permit Truck)
: NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR : user(from line 2)
: : AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2, D2, ..., Pn, Dn
: : ...
: : AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2, D2, ..., Pn, Dn : line 2+AXLE-TYPE-NUM
: : AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2, SPACING2, bVS2, ...
: if Moving Load Code is not one of those specified above. : standard
: NAME=NAME, 1, TYPE-NAME, DLA, CODE : user: line 1
: : LOAD1, DIST1, LOAD2, DIST2, ... : user: from line 2
: NAME=DB-24, 1, DB-24, 0, KS2005
: NAME=DL-24, 1, DL-24, 0, KS2005

*MVLDCASE : Moving Load Cases
: NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC : 1st line
: : nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4 : 2st line
: : TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11, LANE12, ... : 3rd line
: : ... :
: : TYPEn, VCLASSn, SCALEn, iMiNn, iMAXn, LANEn1, LANEn2, ... : n+1th line
: NAME=NAME, bLCPV, VEHICLE, REFLANE, ECODEN, SCALE, DESC : Permit
: NAME=MV, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT,
: 1, 1, 1, 1, 0.5, 0.25
: VL, DB-24, 1, 1, 3, L1, L2, L3
: VL, DL-24, 1, 1, 3, L1, L2, L3
: NAME=MV2, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT,
: 1, 1, 1, 1, 0.5, 0.25
: VL, DB-24, 1, 1, 3, L1-(Copy1), L2-(Copy1), L3-(Copy1)
: VL, DL-24, 1, 1, 3, L1-(Copy1), L2-(Copy1), L3-(Copy1)

*LOADCOMB : Combinations

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: NAME=NAME, KIND, ACTIVE, bES, ITYPE, DESC, iSERV-TYPE, nLOOMTYPE : line 1
: : ANAL1, LCONAME1, FACT1, ... : from line 2
: NAME=LCT1, GEN, ACTIVE, 0, 0, , 0, 0
: ST, DL(BC), 1, ST, DL(AC), 1, MV, MV, 1

*CON-REAC-GROUP : Concurrent Reaction Group
: GROUP1, GROUP2, ..., GROUPn
: p1, p2

*LC-COLOR : Diagram Color for Load Case
: ANAL, LCONAME, iR1(ALL), iG1(ALL), iR2(MIN), iG2(MIN), iR2(MIN), iR3(MAX), iG2(MAX), iR2(MAX)

ST, DL(BC), 192, 128, 0, 163, 255, 160, 192, 0, 192
ST, DL(AC), 255, 255, 255, 85, 0, 192, 93, 255, 87
ST, WL(No Live), 146, 0, 255, 192, 72, 0, 128, 192, 0
ST, WL(Live), 255, 192, 87, 0, 128, 128, 255, 87, 87
ST, Unit Moment, 192, 72, 0, 128, 192, 0, 255, 160, 255
ST, Temp(+), 255, 255, 87, 255, 192, 160, 148, 87, 255
ST, Temp(-), 160, 192, 255, 255, 255, 255, 255, 87, 87
MV, MV, 163, 160, 255, 146, 0, 255, 0, 128, 255
MV, MV2, 212, 160, 255, 255, 192, 87, 0, 128, 128
CB, LC1, 255, 87, 128, 163, 255, 160, 85, 0, 192

*EIGEN-CTRL : Eigenvalue Analysis Control
: TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX, FRMIN, FRMAX, bSTRUM : TYPE=EIGEN
: TYPE, bINCNL, iGNUM : TYPE=RITZ(line 1)
: : KIND1, CASE1/GROUND1, iNOG1, ... : TYPE=RITZ(from line2)
: EIGEN, 20, 20, 1, 1e-010, NO, 0, 1600, NO

*DGN-MATL : Modify Steel(Concrete) Material
: iMAT, TYPE, MNAME, [DATA1] : STEEL
: iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT, LONG : CONC
: iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA] : SRC
: iMAT, TYPE, MNAME, [DATA5] : STEEL(None) & KSCE-ASD05
: [DATA1] : 1, DB, CODE, NAME or 2, ELAST, POISN, FU, FY1, FY2, FY3, FY4
: : FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
: [DATA2] : 1, DB, CODE, NAME or 2, FC, CHK, LAMBDA
: [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
: : M1N1, M1N2, M1N3
: [R-DATA] : RBSCODE, RBMAIN, RBSSUB, FY(R), FYS
: 1, STEEL, SMS490, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
: 2, STEEL, SMS400C, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
: 3, STEEL, SMS400S, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

*ENDDATA