

** MIDAS/Civil V.8.7.0 Modeling,
Integrated Design & Analysis Software
**
** CIVIL STRUCTURE
DESIGN SYSTEM
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 V E R S I O N
8.7.0

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 A N A L Y S I S
RESULT OUTPUTS

LOAD SET FOR DISPLACMENT OUTPUT - Load
Set 1

<< LOAD COMBI/CASE/ENVEL ABBREVIATION
TABLE >>

ABBREVIATION	FULL	NAME
TYPE	DESCRIPTION	
- - - - - - - - - -	- - - - - - - -	- - - -
배수콘~1		배수콘크리트
Static		
자갈막~1		자갈막이벽
Static		
- - - - - - - - - -	- - - - - - - -	- - - -
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<< SELECTED LOAD CASE/COMBINATION DETAIL
LIST >>

[Selected Load Combinations]

[Selected Load Combinations]			
L.	COMB	TYPE	
COMBINATION DETAIL			
-----		-----	

합성후	Gen.Comb	1.000 x 방음벽	+
1.000 x 궤도	+	1.000 x 자갈도상	+
수콘~1	+	1.000 x 배	
		1.000 x 자갈막~1	+
		1.000	
x 고정하중			

L.	COMB	TYPE	
COMBINATION DETAIL			
-----		-----	

합성후	Gen.Comb	1.000 x 방음벽	+
1.000 x 궤도	+	1.000 x 자갈도상	+
수콘~1	+	1.000 x 배	
		1.000 x 자갈막~1	+
		1.000	
x 고정하중			

LOAD SET FOR ELEMENT OUTPUTS - Load Set 1

NODE	DISPLACEMENT	AND	ROTATIONS
DEFAULT PRINTOUT			Unit
System : kN , m			

<< LOAD COMBI/CASE/ENVEL ABBREVIATION TABLE >>

ABBREVIATION	FULL	NAME	NODE	LC	UX	UY
TYPE	DESCRIPTION		UZ	RX	RY	RZ
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No Abbreviation was made in this Load Set.						
All names are less than 8 char.'s						

1	합성후		0.000	0.0	-0.000	0.000
2	합성후		-0.000	-0.0	-0.000	-0.000
3	합성후		-0.004	-0.0	-0.000	-0.000
4	합성후		-0.007	-0.0	-0.000	-0.000
5	합성후		-0.009	-0.0	-0.001	-0.000
6	합성후				-0.002	0.000

<< SELECTED LOAD CASE/COMBINATION DETAIL LIST >>

0.000	0.0	-0.0	0.0	-0.010	-0.0	-0.0	0.0
7	합성후	-0.002	-0.000	24	합성후	-0.002	-0.000
-0.000	-0.0	-0.0	0.0	-0.000	-0.0	-0.0	-0.0
8	합성후	-0.001	-0.000	25	합성후	-0.002	-0.000
-0.004	-0.0	-0.0	0.0	-0.000	-0.0	-0.0	0.0
9	합성후	-0.001	-0.000	26	합성후	-0.001	-0.000
-0.007	-0.0	-0.0	0.0	-0.004	-0.0	-0.0	0.0
10	합성후	-0.000	0.000	27	합성후	-0.001	-0.000
-0.000	-0.0	0.0	-0.0	-0.007	-0.0	-0.0	-0.0
11	합성후	-0.000	-0.000	28	합성후	0.000	-0.000
-0.000	-0.0	0.0	-0.0	-0.000	-0.0	0.0	-0.0
12	합성후	-0.000	-0.000	29	합성후	-0.000	-0.000
-0.004	-0.0	0.0	-0.0	-0.000	-0.0	0.0	-0.0
13	합성후	-0.000	-0.000	30	합성후	-0.000	-0.000
-0.007	-0.0	0.0	-0.0	-0.004	-0.0	0.0	-0.0
14	합성후	-0.001	-0.000	31	합성후	-0.000	-0.000
-0.010	-0.0	-0.0	-0.0	-0.007	-0.0	0.0	-0.0
15	합성후	-0.002	0.000	32	합성후	-0.001	-0.000
-0.000	-0.0	-0.0	0.0	-0.010	-0.0	-0.0	-0.0
16	합성후	-0.002	-0.000	33	합성후	-0.002	-0.000
-0.000	-0.0	-0.0	0.0	-0.000	-0.0	-0.0	0.0
17	합성후	-0.001	-0.000	34	합성후	-0.002	-0.000
-0.004	-0.0	-0.0	0.0	-0.000	-0.0	-0.0	0.0
18	합성후	-0.001	-0.000	35	합성후	-0.001	-0.000
-0.007	-0.0	-0.0	0.0	-0.004	-0.0	-0.0	0.0
19	합성후	-0.000	-0.000	36	합성후	-0.001	-0.000
-0.000	-0.0	0.0	0.0	-0.007	-0.0	-0.0	0.0
20	합성후	-0.000	-0.000	37	합성후	0.000	0.000
-0.000	-0.0	0.0	0.0	-0.000	-0.0	0.0	-0.0
21	합성후	-0.000	-0.000	38	합성후	0.000	-0.000
-0.004	-0.0	0.0	0.0	-0.000	-0.0	0.0	-0.0
22	합성후	-0.000	-0.000	39	합성후	-0.000	0.000
-0.007	-0.0	0.0	0.0	-0.005	-0.0	0.0	-0.0
23	합성후	-0.001	-0.000	40	합성후	-0.000	0.000

-0.008	-0.0	0.0	-0.0	-0.005	-0.0	0.0	0.0
41	합성후	-0.001	0.000	58	합성후	-0.000	0.000
-0.011	-0.0	0.0	-0.0	-0.008	-0.0	0.0	0.0
42	합성후	-0.002	0.000	59	합성후	-0.001	-0.000
-0.000	-0.0	-0.0	0.0	-0.011	-0.0	0.0	0.0
43	합성후	-0.002	-0.000	60	합성후	-0.002	0.000
-0.000	-0.0	-0.0	0.0	-0.000	0.0	-0.0	0.0
44	합성후	-0.002	0.000	61	합성후	-0.002	0.000
-0.005	-0.0	-0.0	0.0	-0.000	-0.0	-0.0	0.0
45	합성후	-0.001	0.000	62	합성후	-0.001	-0.000
-0.008	-0.0	-0.0	0.0	-0.005	-0.0	-0.0	0.0
46	합성후	-0.000	-0.000	63	합성후	-0.001	-0.000
-0.000	-0.0	0.0	0.0	-0.008	-0.0	-0.0	0.0
47	합성후	-0.000	-0.000	64	합성후	0.000	0.000
-0.001	-0.0	0.0	0.0	0.000	0.0	0.0	0.0
48	합성후	-0.000	0.000	65	합성후	0.000	0.000
-0.005	-0.0	0.0	0.0	0.000	0.0	0.0	0.0
49	합성후	-0.000	0.000	66	합성후	0.000	0.000
-0.008	-0.0	0.0	0.0	0.000	0.0	0.0	0.0
50	합성후	-0.001	0.000	67	합성후	0.000	0.000
-0.012	-0.0	0.0	0.0	0.000	0.0	0.0	0.0
51	합성후	-0.002	-0.000	68	합성후	0.000	0.000
-0.000	-0.0	-0.0	0.0	0.000	0.0	0.0	0.0
52	합성후	-0.002	-0.000	69	합성후	0.000	0.000
-0.001	-0.0	-0.0	0.0	0.000	0.0	0.0	0.0
53	합성후	-0.001	0.000	70	합성후	-0.000	0.000
-0.005	-0.0	-0.0	0.0	-0.002	-0.0	0.0	0.0
54	합성후	-0.001	0.000	71	합성후	-0.000	0.000
-0.008	-0.0	-0.0	0.0	-0.002	-0.0	0.0	-0.0
55	합성후	-0.000	-0.000	72	합성후	-0.000	0.000
-0.000	0.0	0.0	0.0	-0.004	-0.0	0.0	0.0
56	합성후	-0.000	0.000	73	합성후	-0.000	0.000
-0.000	-0.0	0.0	0.0	-0.003	-0.0	0.0	-0.0
57	합성후	-0.000	0.000	74	합성후	-0.000	0.000

-0.002	-0.0	0.0	0.0	-0.002	-0.0	-0.0	0.0
75	합성후	-0.000	0.000	92	합성후	-0.002	-0.000
-0.003	-0.0	0.0	0.0	-0.003	-0.0	-0.0	0.0
76	합성후	-0.000	0.000	93	합성후	-0.002	-0.000
-0.002	-0.0	0.0	-0.0	-0.002	-0.0	-0.0	0.0
77	합성후	-0.000	-0.000	94	합성후	-0.002	-0.000
-0.003	-0.0	0.0	-0.0	-0.003	-0.0	-0.0	0.0
78	합성후	-0.000	-0.000	95	합성후	-0.002	-0.000
-0.002	-0.0	0.0	0.0	-0.002	-0.0	-0.0	0.0
79	합성후	-0.000	-0.000	96	합성후	-0.001	-0.000
-0.003	-0.0	0.0	0.0	-0.003	-0.0	-0.0	0.0
80	합성후	-0.000	-0.000	97	합성후	-0.002	-0.000
-0.002	-0.0	0.0	-0.0	-0.002	-0.0	-0.0	0.0
81	합성후	-0.000	-0.000	98	합성후	-0.000	0.000
-0.003	-0.0	0.0	-0.0	-0.007	-0.0	0.0	0.0
82	합성후	-0.000	-0.000	99	합성후	-0.000	0.000
-0.002	-0.0	0.0	0.0	-0.006	-0.0	0.0	-0.0
83	합성후	-0.000	-0.000	100	합성후	-0.000	0.000
-0.003	-0.0	0.0	0.0	-0.006	-0.0	0.0	0.0
84	합성후	-0.002	0.000	101	합성후	-0.000	-0.000
-0.004	-0.0	-0.0	0.0	-0.006	-0.0	0.0	-0.0
85	합성후	-0.002	0.000	102	합성후	-0.000	-0.000
-0.003	-0.0	-0.0	0.0	-0.006	-0.0	0.0	0.0
86	합성후	-0.002	0.000	103	합성후	-0.000	-0.000
-0.002	-0.0	-0.0	0.0	-0.006	-0.0	0.0	-0.0
87	합성후	-0.002	0.000	104	합성후	-0.000	-0.000
-0.002	-0.0	-0.0	0.0	-0.005	-0.0	0.0	0.0
88	합성후	-0.002	0.000	105	합성후	-0.001	0.000
-0.003	-0.0	-0.0	0.0	-0.007	-0.0	-0.0	0.0
89	합성후	-0.002	-0.000	106	합성후	-0.001	0.000
-0.002	-0.0	-0.0	0.0	-0.006	-0.0	-0.0	0.0
90	합성후	-0.002	-0.000	107	합성후	-0.001	-0.000
-0.003	-0.0	-0.0	0.0	-0.006	-0.0	-0.0	0.0
91	합성후	-0.002	-0.000	108	합성후	-0.001	-0.000

-0.006	-0.0	-0.0	0.0	-0.009	-0.0	0.0	-0.0
109	합성후	-0.001	-0.000	126	합성후	-0.001	-0.000
-0.006	-0.0	-0.0	0.0	-0.010	-0.0	0.0	-0.0
110	합성후	-0.001	-0.000	127	합성후	-0.001	-0.000
-0.006	-0.0	-0.0	0.0	-0.010	-0.0	0.0	-0.0
111	합성후	-0.001	-0.000	128	합성후	-0.000	-0.000
-0.005	-0.0	-0.0	0.0	-0.008	-0.0	0.0	0.0
112	합성후	-0.000	0.000	129	합성후	-0.000	-0.000
-0.010	-0.0	0.0	0.0	-0.009	-0.0	0.0	0.0
113	합성후	-0.000	0.000	130	합성후	-0.001	-0.000
-0.009	-0.0	0.0	-0.0	-0.010	-0.0	0.0	0.0
114	합성후	-0.000	0.000	131	합성후	-0.001	-0.000
-0.010	-0.0	0.0	0.0	-0.010	-0.0	0.0	0.0
115	합성후	-0.000	0.000	132	합성후	-0.000	-0.000
-0.010	-0.0	0.0	-0.0	-0.008	-0.0	0.0	-0.0
116	합성후	-0.001	0.000	133	합성후	-0.000	-0.000
-0.011	-0.0	0.0	0.0	-0.009	-0.0	0.0	-0.0
117	합성후	-0.001	0.000	134	합성후	-0.001	-0.000
-0.011	-0.0	0.0	-0.0	-0.009	-0.0	0.0	-0.0
118	합성후	-0.001	0.000	135	합성후	-0.001	-0.000
-0.012	-0.0	0.0	0.0	-0.009	-0.0	0.0	-0.0
119	합성후	-0.001	0.000	136	합성후	-0.000	-0.000
-0.011	-0.0	0.0	-0.0	-0.008	-0.0	0.0	0.0
120	합성후	-0.000	0.000	137	합성후	-0.000	-0.000
-0.009	-0.0	0.0	0.0	-0.008	-0.0	0.0	0.0
121	합성후	-0.000	0.000	138	합성후	-0.001	-0.000
-0.010	-0.0	0.0	0.0	-0.009	-0.0	0.0	0.0
122	합성후	-0.001	0.000	139	합성후	-0.001	-0.000
-0.010	-0.0	0.0	0.0	-0.009	-0.0	0.0	0.0
123	합성후	-0.001	0.000	140	합성후	-0.001	0.000
-0.011	-0.0	0.0	0.0	-0.012	-0.0	-0.0	0.0
124	합성후	-0.000	-0.000	141	합성후	-0.001	0.000
-0.008	-0.0	0.0	-0.0	-0.011	-0.0	-0.0	-0.0
125	합성후	-0.000	-0.000	142	합성후	-0.001	0.000

-0.011	-0.0	-0.0	0.0	-0.008	-0.0	-0.0	0.0		
143	합성후	-0.001	0.000	160	합성후	-0.001	-0.000		
-0.011	-0.0	-0.0	0.0	-0.009	-0.0	-0.0	0.0		
144	합성후	-0.001	0.000	161	합성후	-0.001	-0.000		
-0.010	-0.0	-0.0	0.0	-0.009	-0.0	-0.0	0.0		
145	합성후	-0.001	0.000	162	합성후	-0.001	-0.000		
-0.010	-0.0	-0.0	0.0	-0.009	-0.0	-0.0	0.0		
146	합성후	-0.001	0.000	163	합성후	-0.001	-0.000		
-0.010	-0.0	-0.0	0.0	-0.008	-0.0	-0.0	0.0		
147	합성후	-0.001	0.000	164	합성후	-0.001	-0.000		
-0.009	-0.0	-0.0	0.0	-0.009	-0.0	-0.0	0.0		
148	합성후	-0.001	0.000	165	합성후	-0.001	-0.000		
-0.011	-0.0	-0.0	0.0	-0.009	-0.0	-0.0	0.0		
149	합성후	-0.001	0.000	166	합성후	-0.001	-0.000		
-0.010	-0.0	-0.0	0.0	-0.008	-0.0	-0.0	0.0		
150	합성후	-0.001	0.000	167	합성후	-0.001	-0.000		
-0.010	-0.0	-0.0	0.0	-0.008	-0.0	-0.0	0.0		
151	합성후	-0.001	0.000	-----					
-0.009	-0.0	-0.0	0.0	-----					
152	합성후	-0.001	-0.000	-----					
-0.010	-0.0	-0.0	0.0						
153	합성후	-0.001	-0.000						
-0.010	-0.0	-0.0	0.0						
				BEAM ELEMENT FORCES & MOMENTS DEFAULT					
154	합성후	-0.001	-0.000	PRINTOUT					
-0.009	-0.0	-0.0	0.0	Unit System :					
				kN , m					
155	합성후	-0.001	-0.000	-----					
-0.008	-0.0	-0.0	0.0	---					
156	합성후	-0.001	-0.000						
-0.010	-0.0	-0.0	0.0						
				ELEM	MAT	SEC	LC	PT	
				AXIAL	SHEAR-y	SHEAR-z		TORSION	
157	합성후	-0.001	-0.000						
-0.010	-0.0	-0.0	0.0						
				-----	-----	-----	-----	---	
158	합성후	-0.001	-0.000	-----				-----	
-0.009	-0.0	-0.0	0.0	-----				-----	
				1	1	3	합성후	I	-25.2
159	합성후	-0.001	-0.000	6.1	-337.6	-26.3			34.0

-10.0						-5.8	339.4	27.5	-5.1
			J		-25.2	-9.7			
6.1		-332.9	-26.3		101.0				
-11.2						9	1	3	합성후 I 39.9
						-4.3	-414.5	-13.7	-21.5
2	1	2	합성후 I	70.6	-16.2				
-7.4		-345.4	-17.1	39.4				J	39.9
-11.2					-4.3	-409.8		-13.7	61.0
			J	70.6	-15.3				
-7.4		-330.0	-17.1	320.8					
-5.1					10	1	2	합성후 I	146.1
					-6.6	-408.1		-15.0	-7.2
3	1	1	합성후 I	480.9	-15.3				
-9.1		-249.6	-11.5	532.8				J	146.1
-6.7					-6.6	-392.7		-15.0	326.4
			J	480.9	-9.9				
-9.1		-235.1	-11.5	787.3					
2.8					11	1	1	합성후 I	604.3
					-14.1	-270.1		-13.8	569.4
4	1	1	합성후 I	709.3	-11.8				
-0.9		-153.2	-5.2	867.0				J	604.3
1.7					-14.1	-255.6		-13.8	845.4
			J	709.3	3.1				
-0.9		-140.3	-5.2	1004.9					
2.5					12	1	1	합성후 I	854.5
					6.6	-192.0		-5.0	904.1
5	1	1	합성후 I	888.6	6.9				
1.3		20.9	2.6	1163.6				J	854.5
6.2					6.6	-179.1		-5.0	1078.5
			J	888.6	0.8				
1.3		33.9	2.6	1137.9					
5.0					13	1	1	합성후 I	1057.4
					12.0	5.3		3.0	1235.5
6	1	1	합성후 I	623.4	15.8				
8.5		201.3	11.2	915.6				J	1057.4
12.8					12.0	18.2		3.0	1224.5
			J	623.4	4.5				
8.5		215.7	11.2	696.7					
3.9					14	1	1	합성후 I	742.0
					20.5	205.4		12.1	973.9
7	1	2	합성후 I	376.1	25.6				
-3.5		272.1	23.3	614.5				J	742.0
-5.8					20.5	219.8		12.1	750.7
			J	376.1	4.1				
-3.5		287.6	23.3	381.2					
-2.9					15	1	2	합성후 I	452.9
					-3.9	305.7		26.6	681.5
8	1	3	합성후 I	30.3	-10.8				
-5.8		334.7	27.5	62.3				J	452.9
-10.9					-3.9	321.2		26.6	420.3
			J	30.3	-7.5				

						-4.3		346.4		28.5	722.3
16	1	3	합성후	I	29.2	-1.6					
1.7		409.9		17.5	68.6					J	512.5
-15.8						-4.3		361.9		28.5	427.2
				J	29.2	2.0					
1.7		414.6		17.5	-13.8						
-16.1						24	1	3	합성후	I	11.3
						13.0		447.6		40.1	72.7
17	1	3	합성후	I	60.5	-8.0					
-12.9		-453.1		-38.9	-51.9					J	11.3
-10.6						13.0		452.2		40.1	-17.3
				J	60.5	-10.6					
-12.9		-448.4		-38.9	38.2						
-8.1						25	2	4	합성후	I	8.1
						11.9		13.8		4.1	16.5
18	1	2	합성후	I	171.5	10.0					
-9.6		-442.1		-35.3	-32.8					J	8.1
-8.1						11.9		24.6		4.1	-9.5
				J	171.5	-6.0					
-9.6		-426.7		-35.3	329.1						
-0.0						26	2	4	합성후	I	3.5
						3.6		39.0		5.2	-6.6
19	1	1	합성후	I	711.8	-6.0					
-6.0		-314.8		-11.0	577.5					J	3.5
-2.3						3.6		41.4		5.2	-18.6
				J	711.8	-7.1					
-6.0		-300.3		-11.0	900.4						
4.0						27	2	4	합성후	I	-28.2
						12.0		21.4		4.1	15.1
20	1	1	합성후	I	1003.8	9.1					
-14.1		-205.3		-11.7	967.0					J	-28.2
-10.1						12.0		34.5		4.1	-31.0
				J	1003.8	-10.6					
-14.1		-192.3		-11.7	1153.8						
3.2						28	2	4	합성후	I	34.8
						12.1		-31.1		3.6	-34.6
21	1	1	합성후	I	1246.6	10.0					
-11.6		25.9		-2.9	1344.5					J	34.8
-5.6						12.1		-20.3		3.6	0.2
				J	1246.6	-6.3					
-11.6		38.8		-2.9	1314.1						
5.3						29	2	4	합성후	I	53.0
						6.6		-8.0		1.8	-11.0
22	1	1	합성후	I	866.5	-6.3					
-3.6		255.6		7.9	1067.6					J	53.0
1.2						6.6		-5.6		1.8	-9.0
				J	866.5	-8.3					
-3.6		270.0		7.9	791.7						
5.0						30	2	4	합성후	I	13.8
						11.9		7.7		3.3	-12.8
23	1	2	합성후	I	512.5	9.6					

				J	13.8	5.8				
11.9		20.8		3.3	-36.3					
-9.9						38	2	4	합성후	I
						-3.9		40.9		-5.5
31	2	4	합성후	I	44.7	5.8				
0.5		-28.4		0.1	-38.1				J	-4.8
0.5						-3.9		43.3		-5.5
				J	44.7	7.0				-14.9
0.5		-17.7		0.1	-6.9					
-0.3						39	2	4	합성후	I
						-12.0		22.3		-4.6
32	2	4	합성후	I	62.3	-9.1				
0.8		-6.9		-0.0	-17.8				J	-28.7
-0.3						-12.0		35.4		-4.6
				J	62.3	10.6				-31.8
0.8		-4.5		-0.0	-16.1					
-0.5						96	1	2	합성후	I
						-1.7		-401.3		-31.8
33	2	4	합성후	I	21.9	-0.0				
0.6		10.8		0.1	-17.1				J	359.4
0.4						-1.7		-385.8		-31.8
				J	21.9	1.3				531.6
0.6		24.0		0.1	-45.8					
-0.5						97	1	2	합성후	I
						4.4		-362.6		-27.7
34	2	4	합성후	I	34.3	1.3				
-11.5		-32.2		-3.5	-35.2				J	536.0
-9.5						4.4		-347.1		-27.7
				J	34.3	-2.3				709.2
-11.5		-21.4		-3.5	1.0					
6.0						102	1	2	합성후	I
						-1.4		-365.9		-20.7
35	2	4	합성후	I	53.6	-9.9				
-5.7		-8.9		-1.8	-10.9				J	308.7
6.0						-1.4		-350.4		-20.7
				J	53.6	-8.7				517.0
-5.7		-6.5		-1.8	-8.6					
7.7						103	1	2	합성후	I
						3.6		-321.5		-25.5
36	2	4	합성후	I	14.8	-8.7				
-11.3		7.0		-3.3	-13.3				J	455.5
-9.2						3.6		-306.0		-25.5
				J	14.8	-11.8				680.8
-11.3		20.2		-3.3	-35.7					
9.5						110	1	2	합성후	I
						-1.5		-317.4		-20.6
37	2	4	합성후	I	9.8	-5.1				
-11.5		15.8		-4.8	16.9				J	218.5
-9.7						-1.5		-302.0		-20.6
				J	9.8	-3.8				482.0
-11.5		26.6		-4.8	-11.7					

111	1	2	합성후	I	347.7	4.0						
3.4		-286.6		-22.4	397.3				J		882.7	
-3.8						3.9	-255.7		-7.7		1059.9	
				J	347.7	-0.1						
3.4		-271.1		-22.4	629.7							
-6.7						139	1	1	합성후	I	743.2	
						-20.7		-220.0		-11.9	751.2	
116	1	2	합성후	I	331.1	3.1						
2.1		384.8		32.6	548.6				J		743.2	
2.0						-20.7		-205.6		-11.9	974.6	
				J	331.1	24.9						
2.1		400.2		32.6	221.6							
0.2						143	1	1	합성후	I	604.3	
						-8.4		-215.4		-11.0	705.3	
117	1	2	합성후	I	132.2	2.8						
9.9		425.4		36.4	354.7				J		604.3	
0.2						-8.4		-201.0		-11.0	923.9	
				J	132.2	11.6						
9.9		440.8		36.4	-6.3							
-8.0						146	1	1	합성후	I	692.5	
						6.3		299.9		11.4	910.5	
122	1	2	합성후	I	304.8	5.0						
1.8		350.0		21.8	519.0				J		692.5	
-7.5						6.3		314.4		11.4	588.0	
				J	304.8	-1.6						
1.8		365.5		21.8	220.8							
-9.1						149	1	1	합성후	I	602.6	
						14.2		255.4		14.2	845.3	
123	1	2	합성후	I	139.1	4.1						
8.1		392.1		15.8	330.9				J		602.6	
-9.1						14.2		269.9		14.2	569.5	
				J	139.1	-10.8						
8.1		407.6		15.8	-2.3							
-15.8						153	1	1	합성후	I	503.8	
						9.2		235.7		11.9	776.0	
130	1	2	합성후	I	252.0	3.9						
2.0		303.4		21.4	462.3				J		503.8	
-2.9						9.2		250.2		11.9	520.9	
				J	252.0	-5.8						
2.0		318.8		21.4	203.1							
-4.5						156	1	1	합성후	I	1099.4	
						-5.9		-163.7		-9.0	1089.2	
131	1	2	합성후	I	115.2	3.2						
7.7		331.7		18.3	292.3				J		1099.4	
-4.5						-5.9		-150.7		-9.0	1236.9	
				J	115.2	8.7						
7.7		347.2		18.3	9.4							
-10.9						157	1	1	합성후	I	1171.8	
						-0.7		-121.8		-5.1	1188.1	
136	1	1	합성후	I	882.7	8.7						
3.9		-270.2		-7.7	783.8				J		1171.8	

	-0.7	-108.9		-5.1	1296.5						
9.3						185	1	1	합성후	I	827.3
						-0.8		-94.8		-4.5	1039.6
	158	1	1	합성후	I	1221.5	3.4				
	4.2		-80.0		-1.0	1262.9				J	827.3
9.3							-0.8		-81.9		-4.5
				J	1221.5	4.1					1122.6
	4.2		-67.0		-1.0	1332.0					
5.4						186	1	1	합성후	I	864.0
						-1.0		-64.3		-3.6	1098.5
	159	1	1	합성후	I	1248.6	4.1				
	11.2		-38.1		2.5	1313.8				J	864.0
5.4							-1.0		-51.4		-3.6
				J	1248.6	5.0					1152.8
	11.2		-25.2		2.5	1343.6					
-5.1						187	1	1	합성후	I	886.5
						-1.8		-34.9		-3.0	1138.0
	168	1	1	합성후	I	933.5	5.0				
	2.1		-151.2		-4.4	1025.8				J	886.5
0.8							-1.8		-21.9		-3.0
				J	933.5	6.7					1164.7
	2.1		-138.2		-4.4	1161.9					
-1.2						196	1	1	합성후	I	1216.8
						-4.5		67.7		0.5	1334.3
	169	1	1	합성후	I	993.7	5.3				
	-1.1		-106.6		-5.0	1121.4				J	1216.8
-1.2							-4.5		80.6		0.5
				J	993.7	9.6					1264.5
	-1.1		-93.6		-5.0	1215.5					
-0.1						197	1	1	합성후	I	1164.2
						0.3		109.5		4.7	1300.2
	170	1	1	합성후	I	1035.7	9.6				
	-5.1		-62.3		-5.1	1187.2				J	1164.2
-0.1							0.3		122.5		4.7
				J	1035.7	9.3					1191.1
	-5.1		-49.4		-5.1	1239.6					
4.7						198	1	1	합성후	I	1089.1
						5.4		151.3		8.7	1241.9
	171	1	1	합성후	I	1057.6	9.3				
	-12.8		-17.9		-3.3	1224.6				J	1089.1
4.7							5.4		164.2		8.7
				J	1057.6	4.2					1093.6
	-12.8		-5.0		-3.3	1235.4					
16.7						199	1	1	합성후	I	990.8
						13.3		192.9		11.6	1160.2
	184	1	1	합성후	I	775.1	4.2				
	-0.9		-125.6		-5.2	962.0				J	990.8
2.5							13.3		205.8		11.6
				J	775.1	-8.3					972.8
	-0.9		-112.6		-5.2	1073.9					
3.4						208	1	1	합성후	I	1035.5

	4.6		49.6		4.7		1239.5				J		724.6
4.5								0.2	152.4		5.1		860.9
					J		1035.5	3.4					
	4.6		62.6		4.7		1186.8						
0.1								236	1	5	합성후	I	0.0
								0.0		-1.2		0.0	-0.0
	209	1	1	합성후	I		993.3	0.0					
	0.7		93.9		4.5		1215.2				J		0.0
0.1								0.0		1.2		0.0	-0.0
					J		993.3	0.0					
	0.7		106.8		4.5		1120.9						
-0.6								237	1	5	합성후	I	-0.0
								0.0		-4.8		0.0	-0.7
	210	1	1	합성후	I		932.9	0.0					
	-2.6		138.5		4.1		1161.4				J		-0.0
-0.6								0.0		4.8		0.0	-0.7
					J		932.9	0.0					
	-2.6		151.4		4.1		1025.2						
1.9								238	1	5	합성후	I	-0.0
								0.0		-4.8		0.0	-0.7
	211	1	1	합성후	I		853.9	0.0					
	-7.3		179.4		4.8		1077.9				J		-0.0
1.9								0.0		4.8		0.0	-0.7
					J		853.9	0.0					
	-7.3		192.3		4.8		903.2						
8.7								239	1	5	합성후	I	-0.0
								0.0		-4.8		0.0	-0.7
	224	1	1	합성후	I		869.5	0.0					
	0.7		50.4		3.1		1150.4				J		-0.0
5.0								0.0		4.8		0.0	-0.7
					J		869.5	0.0					
	0.7		63.4		3.1		1096.9						
4.4								240	1	5	합성후	I	-0.0
								0.0		-6.1		0.0	-1.1
	225	1	1	합성후	I		836.1	0.0					
	0.5		81.0		4.0		1118.7				J		-0.0
4.4								0.0		6.1		0.0	-1.1
					J		836.1	0.0					
	0.5		93.9		4.0		1036.5						
4.0								241	1	5	합성후	I	-0.0
								0.0		-6.1		0.0	-1.1
	226	1	1	합성후	I		787.1	0.0					
	0.5		111.8		4.8		1068.6				J		-0.0
4.0								0.0		6.1		0.0	-1.1
					J		787.1	0.0					
	0.5		124.7		4.8		957.4						
3.5								242	1	5	합성후	I	-0.0
								0.0		-5.4		0.0	-0.9
	227	1	1	합성후	I		724.6	0.0					
	0.2		139.4		5.1		998.1				J		-0.0
3.5								0.0		5.4		0.0	-0.9

0.0						250	1	5	합성후	I	-0.0
						0.0		-5.4		0.0	-0.9
243	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		5.4		0.0	-0.9
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						251	1	5	합성후	I	-0.0
						0.0		-5.4		0.0	-0.9
244	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		5.4		0.0	-0.9
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						252	1	5	합성후	I	-0.0
						0.0		-6.1		0.0	-1.1
245	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		6.1		0.0	-1.1
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						253	1	5	합성후	I	-0.0
						0.0		-6.1		0.0	-1.1
246	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		6.1		0.0	-1.1
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						254	1	5	합성후	I	-0.0
						0.0		-4.8		0.0	-0.7
247	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		4.8		0.0	-0.7
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						255	1	5	합성후	I	-0.0
						0.0		-4.8		0.0	-0.7
248	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		4.8		0.0	-0.7
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						256	1	5	합성후	I	-0.0
						0.0		-4.8		0.0	-0.7
249	1	5	합성후	I	-0.0	0.0					
0.0		-5.4		0.0	-0.9					J	-0.0
0.0						0.0		4.8		0.0	-0.7
				J	-0.0	0.0					
0.0		5.4		0.0	-0.9						
0.0						257	1	5	합성후	I	0.0
						0.0		-1.2		0.0	-0.0

0.0
J 0.0
0.0 0.0 0.0 -0.0
0.0

BEAM ELEMENT FORCES & MOMENTS MIN/MAX
SUMMARY BY PROPERTY PRINTOUT Unit
System : kN , m

* LENGTH : the length of between two nodes

[SECTION NAME : ps중앙 , SECTION ID : 1]

** MAX

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

159 AXL 합성후 1 J 1248.6
11.2 -25.2 2.5 1343.6 -5.1
0.94
14 SHY 합성후 1 I 742.0
20.5 205.4 12.1 973.9 25.6
1.05
146 SHZ 합성후 1 J 692.5
6.3 314.4 11.4 588.0 -1.6
1.05
149 TOR 합성후 1 J 602.6
14.2 269.9 14.2 569.5 -10.8
1.05
21 MTY 합성후 1 I 1246.6

-11.6 25.9 -2.9 1344.5 -5.6
0.94
14 MTZ 합성후 1 I 742.0
20.5 205.4 12.1 973.9 25.6
1.05

** MIN

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

3 AXL 합성후 1 J 480.9
-9.1 -235.1 -11.5 787.3 2.8
1.05
139 SHY 합성후 1 I 743.2
-20.7 -220.0 -11.9 751.2 3.1
1.05

19 SHZ 합성후 1 I 711.8
-6.0 -314.8 -11.0 577.5 -2.3
1.05

11 TOR 합성후 1 I 604.3
-14.1 -270.1 -13.8 569.4 -11.8
1.05

153 MTY 합성후 1 J 503.8
9.2 250.2 11.9 520.9 -5.8
1.05

11 MTZ 합성후 1 I 604.3
-14.1 -270.1 -13.8 569.4 -11.8
1.05

[SECTION NAME : ps단2 , SECTION ID : 2]

** MAX

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-z TORSION MOMENT-y
MOMENT-z LENGTH

97 AXL 합성후 1 J 536.0
4.4 -347.1 -27.7 709.2 -2.3
0.83

	ELEM	COM	LC	PT	AXIAL
	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
	MOMENT-z	LENGTH			
117 SHY 합성후	1	I	132.2		
9.9 425.4 36.4 354.7 0.2					
0.83					
117 SHZ 합성후	1	J	132.2		
9.9 440.8 36.4 -6.3 -8.0					
0.83					
117 TOR 합성후	1	J	132.2		
9.9 440.8 36.4 -6.3 -8.0					
0.83					
23 MTY 합성후	1	I	512.5		
-4.3 346.4 28.5 722.3 -1.6					
0.83					
116 MTZ 합성후	1	I	331.1		
2.1 384.8 32.6 548.6 2.0					
0.83					
** MIN					
ELEM COM LC PT AXIAL					
SHEAR-y SHEAR-z TORSION MOMENT-y					
MOMENT-z LENGTH					

2 AXL 합성후	1	J	70.6		
-7.4 -330.0 -17.1 320.8 -5.1					
0.83					
18 SHY 합성후	1	I	171.5		
-9.6 -442.1 -35.3 -32.8 -8.1					
0.83					
18 SHZ 합성후	1	I	171.5		
-9.6 -442.1 -35.3 -32.8 -8.1					
0.83					
18 TOR 합성후	1	I	171.5		
-9.6 -442.1 -35.3 -32.8 -8.1					
0.83					
18 MTY 합성후	1	I	171.5		
-9.6 -442.1 -35.3 -32.8 -8.1					
0.83					
123 MTZ 합성후	1	J	139.1		
8.1 407.6 15.8 -2.3 -15.8					
0.83					
[SECTION NAME : ps단1 , SECTION ID : 3]					
** MAX					

	ELEM	COM	LC	PT	AXIAL
	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
	MOMENT-z	LENGTH			
17 AXL 합성후	1	I	60.5		
-12.9 -453.1 -38.9 -51.9 -10.6					
0.20					
24 SHY 합성후	1	I	11.3		
13.0 447.6 40.1 72.7 -8.0					
0.20					
24 SHZ 합성후	1	J	11.3		
13.0 452.2 40.1 -17.3 -10.6					
0.20					
24 TOR 합성후	1	J	11.3		
13.0 452.2 40.1 -17.3 -10.6					
0.20					
1 MTY 합성후	1	J	-25.2		
6.1 -332.9 -26.3 101.0 -11.2					
0.20					
24 MTZ 합성후	1	I	11.3		
13.0 447.6 40.1 72.7 -8.0					
0.20					
** MIN					
ELEM COM LC PT AXIAL					
SHEAR-y SHEAR-z TORSION MOMENT-y					
MOMENT-z LENGTH					

1 AXL 합성후	1	J	-25.2		
6.1 -332.9 -26.3 101.0 -11.2					
0.20					
17 SHY 합성후	1	I	60.5		
-12.9 -453.1 -38.9 -51.9 -10.6					
0.20					
17 SHZ 합성후	1	I	60.5		
-12.9 -453.1 -38.9 -51.9 -10.6					
0.20					
17 TOR 합성후	1	I	60.5		
-12.9 -453.1 -38.9 -51.9 -10.6					
0.20					
17 MTY 합성후	1	I	60.5		
-12.9 -453.1 -38.9 -51.9 -10.6					
0.20					
9 MTZ 합성후	1	I	39.9		

-4.3 -414.5 -13.7 -21.5 -16.2
0.20

[SECTION NAME : cros , SECTION ID : 4 ,
SECTION SHAPE : SB]
[SECTION SIZE] H:1.3 B:0.25
** MAX

ELEM	COM	LC	PT	AXIAL
SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
MOMENT-z	LENGTH			

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32	AXL	합성후	1	I	62.3
0.8	-6.9	-0.0	-17.8	-0.3	
0.30					
28	SHY	합성후	1	I	34.8
12.1	-31.1	3.6	-34.6	10.0	
1.35					
38	SHZ	합성후	1	J	-4.8
-3.9	43.3	-5.5	-14.9	7.0	
0.30					
26	TOR	합성후	1	J	3.5
3.6	41.4	5.2	-18.6	-7.1	
0.30					
37	MTY	합성후	1	I	9.8
-11.5	15.8	-4.8	16.9	-9.7	
1.35					
39	MTZ	합성후	1	J	-28.7
-12.0	35.4	-4.6	-31.8	10.6	
1.65					

** MIN

ELEM	COM	LC	PT	AXIAL
SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
MOMENT-z	LENGTH			

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39	AXL	합성후	1	J	-28.7
-12.0	35.4	-4.6	-31.8	10.6	
1.65					
39	SHY	합성후	1	I	-28.7
-12.0	22.3	-4.6	15.7	-9.1	
1.65					
34	SHZ	합성후	1	I	34.3

-11.5 -32.2 -3.5 -35.2 -9.5
1.35

38	TOR	합성후	1	J	-4.8
-3.9	43.3	-5.5	-14.9	7.0	
0.30					
33	MTY	합성후	1	J	21.9
0.6	24.0	0.1	-45.8	-0.5	
1.65					
27	MTZ	합성후	1	J	-28.2
12.0	34.5	4.1	-31.0	-10.6	
1.65					

[SECTION NAME : tem , SECTION ID : 5 ,
SECTION SHAPE : SB]
[SECTION SIZE] H:0.0001 B:0.0001
** MAX

ELEM	COM	LC	PT	AXIAL
SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
MOMENT-z	LENGTH			

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257	AXL	합성후	1	I	0.0
0.0	-1.2	0.0	-0.0	0.0	
0.20					
236	SHY	합성후	1	I	0.0
0.0	-1.2	0.0	-0.0	0.0	
0.20					
240	SHZ	합성후	1	J	-0.0
0.0	6.1	0.0	-1.1	0.0	
1.05					
253	TOR	합성후	1	I	-0.0
0.0	-6.1	0.0	-1.1	0.0	
1.05					
257	MTY	합성후	1	I	0.0
0.0	-1.2	0.0	-0.0	0.0	
0.20					
247	MTZ	합성후	1	I	-0.0
0.0	-5.4	0.0	-0.9	0.0	
0.94					

** MIN

ELEM	COM	LC	PT	AXIAL
SHEAR-y	SHEAR-z	TORSION	MOMENT-y	
MOMENT-z	LENGTH			

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-----						3	1	1	합성후	I	857.4
247	AXL	합성후	1	I	-0.0	0.0	0.0	181.0	-181.0		-2397.0
0.0	-5.4	0.0	-0.9	0.0	2636.2						
0.94										J	857.4
236	SHY	합성후	1	I	0.0	0.0	0.0	-76.8	76.8		-3541.8
0.0	-1.2	0.0	-0.0	0.0	3895.2						
0.20											
240	SHZ	합성후	1	I	-0.0	4	1	1	합성후	I	1264.8
0.0	-6.1	0.0	-1.1	0.0	0.0	0.0	0.0	-45.0	45.0		-3900.2
1.05					4289.4						
253	TOR	합성후	1	I	-0.0					J	1264.8
0.0	-6.1	0.0	-1.1	0.0	0.0	0.0	0.0	-68.7	68.7		-4520.9
1.05					4972.0						
252	MTY	합성후	1	I	-0.0						
0.0	-6.1	0.0	-1.1	0.0	5	1	1	합성후	I	1584.5	
1.05					0.0	0.0	0.0	-169.2	169.2		-5234.8
247	MTZ	합성후	1	I	-0.0	5757.2					
0.0	-5.4	0.0	-0.9	0.0						J	1584.5
0.94					0.0	0.0	0.0	-135.0	135.0		-5119.0
					5629.7						
						6	1	1	합성후	I	1111.6
						0.0	0.0	0.0	-347.9	347.9	-4119.1
BEAM ELEMENT STRESSES DEFAULT PRINTOUT						4530.1					
Unit System : kN ,										J	1111.6
m					0.0	0.0	0.0	-105.1	105.1		-3134.3
					3447.1						
-----						7	1	2	합성후	I	496.4
						0.0	0.0	0.0	116.6	-116.6	-2440.1
ELEM	MAT	SEC	LC	PT	2835.3						
AXIAL	SHEAR-y	SHEAR-z	(+y)-BENDING-	(-y)						J	496.4
(+z)-BENDING-(-z)					0.0	0.0	0.0	57.8	-57.8		-1513.9
					1759.1						
-----						8	1	3	합성후	I	31.8
						0.0	0.0	0.0	143.2	-143.2	-233.1
1	1	3	합성후	I	-26.5	256.9					
0.0	0.0	131.5	-131.5	-127.0						J	31.8
140.0					0.0	0.0	0.0	128.0	-128.0		19.1
				J	-26.5	-21.0					
0.0	0.0	147.7	-147.7	-377.8							
416.5					9	1	3	합성후	I	41.9	
					0.0	0.0	0.0	212.7	-212.7		80.3
2	1	2	합성후	I	93.2	-88.5					
0.0	0.0	225.1	-225.1	-156.5						J	41.9
181.9					0.0	0.0	0.0	201.4	-201.4		-228.0
				J	93.2	251.4					
0.0	0.0	101.8	-101.8	-1274.1							
1480.4					10	1	2	합성후	I	192.9	

0.0	0.0	307.1	-307.1	28.7				J	63.5	
-33.4					0.0	0.0	105.8	-105.8	-143.0	
			J	192.9	157.6					
0.0	0.0	197.8	-197.8	-1296.3						
1506.3					18	1	2	합성후	I	226.4
					0.0	0.0	161.2	-161.2	130.4	
11	1	1	합성후	I	1077.6	-151.6				
0.0	0.0	318.5	-318.5	-2561.7				J	226.4	
2817.3					0.0	0.0	1.0	-1.0	-1307.1	
			J	1077.6	1518.8					
0.0	0.0	-83.9	83.9	-3803.3						
4182.8					19	1	1	합성후	I	1269.2
					0.0	0.0	62.1	-62.1	-2597.9	
12	1	1	합성후	I	1523.7	2857.1				
0.0	0.0	-188.0	188.0	-4067.2				J	1269.2	
4473.0					0.0	0.0	-107.5	107.5	-4050.6	
			J	1523.7	4454.8					
0.0	0.0	-21.1	21.1	-4851.9						
5336.0					20	1	1	합성후	I	1789.9
					0.0	0.0	273.3	-273.3	-4350.0	
13	1	1	합성후	I	1885.5	4784.1				
0.0	0.0	-426.7	426.7	-5558.2				J	1789.9	
6112.8					0.0	0.0	-86.0	86.0	-5190.7	
			J	1885.5	5708.6					
0.0	0.0	-121.5	121.5	-5508.7						
6058.3					21	1	1	합성후	I	2222.9
					0.0	0.0	151.7	-151.7	-6048.4	
14	1	1	합성후	I	1323.1	6651.9				
0.0	0.0	-694.5	694.5	-4381.5				J	2222.9	
4818.7					0.0	0.0	-144.4	144.4	-5911.5	
			J	1323.1	6501.4					
0.0	0.0	-112.3	112.3	-3377.2						
3714.1					22	1	1	합성후	I	1545.1
					0.0	0.0	-32.5	32.5	-4802.9	
15	1	2	합성후	I	597.8	5282.1				
0.0	0.0	215.6	-215.6	-2706.2				J	1545.1	
3144.6					0.0	0.0	-135.4	135.4	-3561.6	
			J	597.8	3916.9					
0.0	0.0	150.7	-150.7	-1669.0						
1939.3					23	1	2	합성후	I	676.5
					0.0	0.0	31.7	-31.7	-2868.4	
16	1	3	합성후	I	30.7	3333.0				
0.0	0.0	207.5	-207.5	-256.6				J	676.5	
282.9					0.0	0.0	-40.2	40.2	-1696.5	
			J	30.7	1971.3					
0.0	0.0	211.9	-211.9	51.8						
-57.1					24	1	3	합성후	I	11.9
					0.0	0.0	105.4	-105.4	-271.9	
17	1	3	합성후	I	63.5	299.7				
0.0	0.0	139.6	-139.6	194.2				J	11.9	
-214.1					0.0	0.0	139.5	-139.5	64.7	

-71.3					32	2	4	합성후	I	191.7
					3.7	-32.0		19.4	-19.4	253.2
25	2	4	합성후	I	24.9	-253.2				
54.8	63.9	-739.7	739.7	-234.0					J	191.7
234.0					3.7	-20.9		37.3	-37.3	228.8
			J	24.9	-228.8					
54.8	113.5	444.6	-444.6	134.5						
-134.5					33	2	4	합성후	I	67.3
					2.6	49.9		-33.1	33.1	243.1
26	2	4	합성후	I	10.9	-243.1				
16.6	179.9	444.6	-444.6	93.3					J	67.3
-93.3					2.6	110.6		34.6	-34.6	650.6
			J	10.9	-650.6					
16.6	190.9	524.3	-524.3	264.4						
-264.4					34	2	4	합성후	I	105.5
					-53.0	-148.6		700.4	-700.4	500.0
27	2	4	합성후	I	-86.9	-500.0				
55.2	98.8	-671.9	671.9	-215.1					J	105.5
215.1					-53.0	-98.9		-443.9	443.9	-14.0
			J	-86.9	14.0					
55.2	159.4	785.2	-785.2	440.4						
-440.4					35	2	4	합성후	I	165.1
					-26.3	-41.0		-443.9	443.9	155.0
28	2	4	합성후	I	107.2	-155.0				
55.7	-143.5	-737.0	737.0	490.7					J	165.1
-490.7					-26.3	-30.0		-570.2	570.2	122.2
			J	107.2	-122.2					
55.7	-93.9	465.6	-465.6	-2.3						
2.3					36	2	4	합성후	I	45.4
					-52.3	32.4		678.1	-678.1	188.6
29	2	4	합성후	I	163.2	-188.6				
30.6	-36.9	465.6	-465.6	156.5					J	45.4
-156.5					-52.3	93.1		-702.3	702.3	507.0
			J	163.2	-507.0					
30.6	-25.8	612.5	-612.5	127.5						
-127.5					37	2	4	합성후	I	30.1
					-53.2	72.9		719.9	-719.9	-239.6
30	2	4	합성후	I	42.4	239.6				
54.7	35.4	-710.7	710.7	181.5					J	30.1
-181.5					-53.2	122.6		-429.7	429.7	166.4
			J	42.4	-166.4					
54.7	96.0	734.7	-734.7	515.1						
-515.1					38	2	4	합성후	I	-14.9
					-18.2	188.9		-429.7	429.7	32.3
31	2	4	합성후	I	137.7	-32.3				
2.5	-131.2	-33.8	33.8	540.5					J	-14.9
-540.5					-18.2	199.9		-516.9	516.9	211.8
			J	137.7	-211.8					
2.5	-81.6	19.4	-19.4	98.4						
-98.4					39	2	4	합성후	I	-88.4
					-55.3	102.7		674.6	-674.6	-223.5

223.5					0.0	0.0	-4.8	4.8	-879.8	
			J	-88.4	1022.3					
-55.3	163.4	-784.3	784.3	451.9						
-451.9					117	1	2	합성후	I	174.5
					0.0	0.0	-4.8	4.8	-1408.4	
96	1	2	합성후	I	474.4	1636.5				
0.0	0.0	1.0	-1.0	-808.9					J	174.5
939.9					0.0	0.0	160.8	-160.8		24.9
			J	474.4	-28.9					
0.0	0.0	-26.8	26.8	-2111.2						
2453.2					122	1	2	합성후	I	402.3
					0.0	0.0	150.7	-150.7	-2060.9	
97	1	2	합성후	I	707.6	2394.7				
0.0	0.0	-26.8	26.8	-1642.3					J	402.3
1908.3					0.0	0.0	181.4	-181.4	-877.0	
			J	707.6	1019.1					
0.0	0.0	45.9	-45.9	-2816.5						
3272.7					123	1	2	합성후	I	183.6
					0.0	0.0	181.4	-181.4	-1314.0	
102	1	2	합성후	I	407.5	1526.8				
0.0	0.0	197.8	-197.8	-867.9					J	183.6
1008.5					0.0	0.0	316.3	-316.3	9.2	
			J	407.5	-10.7					
0.0	0.0	174.6	-174.6	-2053.2						
2385.7					130	1	2	합성후	I	332.7
					0.0	0.0	57.8	-57.8	-1836.0	
103	1	2	합성후	I	601.2	2133.4				
0.0	0.0	174.6	-174.6	-1665.2					J	332.7
1934.9					0.0	0.0	90.6	-90.6	-806.5	
			J	601.2	937.1					
0.0	0.0	235.5	-235.5	-2703.4						
3141.3					131	1	2	합성후	I	152.1
					0.0	0.0	90.6	-90.6	-1160.8	
110	1	2	합성후	I	288.5	1348.8				
0.0	0.0	101.8	-101.8	-889.0					J	152.1
1033.0					0.0	0.0	218.3	-218.3	-37.3	
			J	288.5	43.4					
0.0	0.0	76.8	-76.8	-1913.9						
2223.9					136	1	1	합성후	I	1574.0
					0.0	0.0	-107.5	107.5	-3526.0	
111	1	2	합성후	I	459.0	3877.9				
0.0	0.0	76.8	-76.8	-1577.6					J	1574.0
1833.2					0.0	0.0	3.8	-3.8	-4768.1	
			J	459.0	5243.9					
0.0	0.0	133.8	-133.8	-2500.5						
2905.5					139	1	1	합성후	I	1325.2
					0.0	0.0	-83.9	83.9	-3379.3	
116	1	2	합성후	I	437.0	3716.5				
0.0	0.0	-40.2	40.2	-2178.7					J	1325.2
2531.6					0.0	0.0	-673.3	673.3	-4384.3	
			J	437.0	4821.8					

					0.0	0.0	-145.3	145.3	-5910.4
143	1	1	합성후	I	1077.5	6500.2			
0.0	0.0		-76.8	76.8	-3172.9			J	2226.3
3489.5						0.0	0.0	139.0	-139.0
				J	1077.5	6647.5			-6044.4
0.0	0.0		-315.3	315.3	-4156.3				
4571.0						168	1	1	합성후
						0.0	0.0	-21.1	21.1
									-4615.0
146	1	1	합성후	I	1234.9	5075.5			
0.0	0.0		-135.4	135.4	-4095.9				J
4504.6						0.0	0.0	31.6	-31.6
				J	1234.9	5748.4			-5226.9
0.0	0.0		42.9	-42.9	-2645.1				
2909.0						169	1	1	합성후
						0.0	0.0	31.6	-31.6
									-5044.9
149	1	1	합성후	I	1074.6	5548.3			
0.0	0.0		-112.3	112.3	-3802.9				J
4182.3						0.0	0.0	2.9	-2.9
				J	1074.6	6013.8			-5468.2
0.0	0.0		291.7	-291.7	-2562.2				
2817.9						170	1	1	합성후
						0.0	0.0	2.9	-2.9
									-5340.7
153	1	1	합성후	I	898.3	5873.6			
0.0	0.0		-105.1	105.1	-3491.0				J
3839.4						0.0	0.0	-127.6	127.6
				J	898.3	6133.2			-5576.7
0.0	0.0		157.8	-157.8	-2343.5				
2577.3						171	1	1	합성후
						0.0	0.0	-127.6	127.6
									-5509.3
156	1	1	합성후	I	1960.4	6059.0			
0.0	0.0		-86.0	86.0	-4899.9				J
5388.8						0.0	0.0	-452.5	452.5
				J	1960.4	6112.4			-5557.9
0.0	0.0		-235.3	235.3	-5564.6				
6119.9						184	1	1	합성후
						0.0	0.0	-68.7	68.7
									-4327.7
157	1	1	합성후	I	2089.4	4759.5			
0.0	0.0		-235.3	235.3	-5344.8				J
5878.1						0.0	0.0	-91.4	91.4
				J	2089.4	5313.4			-4831.3
0.0	0.0		-252.5	252.5	-5832.7				
6414.7						185	1	1	합성후
						0.0	0.0	-91.4	91.4
									-4676.7
158	1	1	합성후	I	2178.2	5143.4			
0.0	0.0		-252.5	252.5	-5681.5				J
6248.4						0.0	0.0	-111.0	111.0
				J	2178.2	5554.1			-5050.2
0.0	0.0		-145.3	145.3	-5992.3				
6590.2						186	1	1	합성후
						0.0	0.0	-111.0	111.0
									-4941.7
159	1	1	합성후	I	2226.3	5434.7			

			J	1540.6	5545.6					
0.0	0.0	-136.0	136.0	-5186.2						
5703.7					210	1	1	합성후	I	1663.5
					0.0	0.0		14.9	-14.9	-5225.0
187	1	1	합성후	I	1580.7	5746.3				
0.0	0.0	-136.0	136.0	-5119.4					J	1663.5
5630.2					0.0	0.0		-50.3	50.3	-4611.9
			J	1580.7	5072.1					
0.0	0.0	-181.5	181.5	-5239.4						
5762.2					211	1	1	합성후	I	1522.5
					0.0	0.0		-50.3	50.3	-4849.0
196	1	1	합성후	I	2169.7	5332.9				
0.0	0.0	-144.4	144.4	-6002.4					J	1522.5
6601.3					0.0	0.0		-236.7	236.7	-4063.2
			J	2169.7	4468.7					
0.0	0.0	-260.2	260.2	-5688.8						
6256.4					224	1	1	합성후	I	1550.4
					0.0	0.0		-135.0	135.0	-5175.2
197	1	1	합성후	I	2076.0	5691.6				
0.0	0.0	-260.2	260.2	-5849.0					J	1550.4
6432.6					0.0	0.0		-118.5	118.5	-4934.6
			J	2076.0	5427.0					
0.0	0.0	-251.4	251.4	-5358.4						
5893.1					225	1	1	합성후	I	1490.8
					0.0	0.0		-118.5	118.5	-5032.7
198	1	1	합성후	I	1942.0	5534.9				
0.0	0.0	-251.4	251.4	-5587.1					J	1490.8
6144.6					0.0	0.0		-107.0	107.0	-4663.0
			J	1942.0	5128.3					
0.0	0.0	-113.8	113.8	-4919.9						
5410.8					226	1	1	합성후	I	1403.5
					0.0	0.0		-107.0	107.0	-4807.2
199	1	1	합성후	I	1766.7	5286.9				
0.0	0.0	-113.8	113.8	-5219.4					J	1403.5
5740.1					0.0	0.0		-95.5	95.5	-4307.2
			J	1766.7	4737.0					
0.0	0.0	225.1	-225.1	-4376.4						
4813.1					227	1	1	합성후	I	1292.1
					0.0	0.0		-95.5	95.5	-4490.2
208	1	1	합성후	I	1846.4	4938.2				
0.0	0.0	-121.5	121.5	-5576.2					J	1292.1
6132.6					0.0	0.0		-91.0	91.0	-3873.1
			J	1846.4	4259.6					
0.0	0.0	-3.5	3.5	-5339.0						
5871.7					236	1	5	합성후	I	24.8
					0.0	-1.7e+008		-3.3	3.3	2.3e+011
209	1	1	합성후	I	1771.2	-2.3e+011				
0.0	0.0	-3.5	3.5	-5467.0					J	24.8
6012.5					0.0	1.7e+008		3.3	-3.3	2.3e+011
			J	1771.2	-2.3e+011					
0.0	0.0	14.9	-14.9	-5042.5						

237	1	5	합성후	I	-266.1	-5.1e+012						
0.0	-7.2e+008		-0.2	0.2	4.0e+012					J	-3378.4	
-4.0e+012						-0.0	8.1e+008	-0.0	0.0	5.1e+012		
				J	-266.1	-5.1e+012						
0.0	7.2e+008		0.2	-0.2	4.0e+012							
-4.0e+012						245	1	5	합성후	I	-3550.7	
						-0.0	-8.1e+008	0.0	-0.0	5.1e+012		
238	1	5	합성후	I	-793.0	-5.1e+012						
0.0	-7.2e+008		-0.1	0.1	4.0e+012					J	-3550.7	
-4.0e+012						-0.0	8.1e+008	-0.0	0.0	5.1e+012		
				J	-793.0	-5.1e+012						
0.0	7.2e+008		0.1	-0.1	4.0e+012							
-4.0e+012						246	1	5	합성후	I	-3744.9	
						-0.0	-8.1e+008	0.0	-0.0	5.1e+012		
239	1	5	합성후	I	-1384.6	-5.1e+012						
0.0	-7.2e+008		-0.1	0.1	4.0e+012					J	-3744.9	
-4.0e+012						-0.0	8.1e+008	-0.0	0.0	5.1e+012		
				J	-1384.6	-5.1e+012						
0.0	7.2e+008		0.1	-0.1	4.0e+012							
-4.0e+012						247	1	5	합성후	I	-3753.3	
						0.0	-8.1e+008	-0.0	0.0	5.1e+012		
240	1	5	합성후	I	-1931.6	-5.1e+012						
0.0	-9.1e+008		-0.0	0.0	6.4e+012					J	-3753.3	
-6.4e+012						0.0	8.1e+008	0.0	-0.0	5.1e+012		
				J	-1931.6	-5.1e+012						
0.0	9.1e+008		0.0	-0.0	6.4e+012							
-6.4e+012						248	1	5	합성후	I	-3576.8	
						0.0	-8.1e+008	-0.0	0.0	5.1e+012		
241	1	5	합성후	I	-2501.2	-5.1e+012						
0.0	-9.1e+008		-0.0	0.0	6.4e+012					J	-3576.8	
-6.4e+012						0.0	8.1e+008	0.0	-0.0	5.1e+012		
				J	-2501.2	-5.1e+012						
0.0	9.1e+008		0.0	-0.0	6.4e+012							
-6.4e+012						249	1	5	합성후	I	-3422.9	
						-0.0	-8.1e+008	0.0	-0.0	5.1e+012		
242	1	5	합성후	I	-2910.8	-5.1e+012						
0.0	-8.1e+008		-0.0	0.0	5.1e+012					J	-3422.9	
-5.1e+012						-0.0	8.1e+008	-0.0	0.0	5.1e+012		
				J	-2910.8	-5.1e+012						
0.0	8.1e+008		0.0	-0.0	5.1e+012							
-5.1e+012						250	1	5	합성후	I	-3204.7	
						-0.0	-8.1e+008	0.0	-0.0	5.1e+012		
243	1	5	합성후	I	-3141.9	-5.1e+012						
0.0	-8.1e+008		-0.0	0.0	5.1e+012					J	-3204.7	
-5.1e+012						-0.0	8.1e+008	-0.0	0.0	5.1e+012		
				J	-3141.9	-5.1e+012						
0.0	8.1e+008		0.0	-0.0	5.1e+012							
-5.1e+012						251</						

-0.0 8.1e+008 -0.1 0.1 5.1e+012
-5.1e+012

252 1 5 합성후 I -2599.7
-0.0 -9.1e+008 0.0 -0.0 6.4e+012
-6.4e+012

J -2599.7
-0.0 9.1e+008 -0.0 0.0 6.4e+012
-6.4e+012

253 1 5 합성후 I -2044.4
-0.0 -9.1e+008 0.0 -0.0 6.4e+012
-6.4e+012

J -2044.4
-0.0 9.1e+008 -0.0 0.0 6.4e+012
-6.4e+012

254 1 5 합성후 I -1502.6
-0.0 -7.2e+008 0.0 -0.0 4.0e+012
-4.0e+012

J -1502.6
-0.0 7.2e+008 -0.0 0.0 4.0e+012
-4.0e+012

255 1 5 합성후 I -880.7
-0.0 -7.2e+008 0.1 -0.1 4.0e+012
-4.0e+012

J -880.7
-0.0 7.2e+008 -0.1 0.1 4.0e+012
-4.0e+012

256 1 5 합성후 I -254.3
-0.0 -7.2e+008 0.2 -0.2 4.0e+012
-4.0e+012

J -254.3
-0.0 7.2e+008 -0.2 0.2 4.0e+012
-4.0e+012

257 1 5 합성후 I 126.9
-0.0 -1.7e+008 3.7 -3.7 2.3e+011
-2.3e+011

J 126.9
-0.0 1.7e+008 -3.7 3.7 2.3e+011
-2.3e+011

BEAM ELEMENT STRESSES MIN/MAX SUMMARY
BY PROPERTY PRINTOUT Unit System
: kN , m

[SECTION NAME : ps중양 , SECTION ID : 1]

** MAX

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-Z (+y)-BENDING-(-y)
(+z)-BENDING-(-z)

159 AXL 합성후 1 J 2226.3
0.0 0.0 139.0 -139.0 -6044.4
6647.5

3 SHY 합성후 1 I 857.4
0.0 0.0 181.0 -181.0 -2397.0
2636.2

3 SHZ 합성후 1 I 857.4
0.0 0.0 181.0 -181.0 -2397.0
2636.2

11 BY+ 합성후 1 I 1077.6
0.0 0.0 318.5 -318.5 -2561.7
2817.3

14 BY- 합성후 1 I 1323.1
0.0 0.0 -694.5 694.5 -4381.5
4818.7

153 BZ+ 합성후 1 J 898.3
0.0 0.0 157.8 -157.8 -2343.5
2577.3

21 BZ- 합성후 1 I 2222.9
0.0 0.0 151.7 -151.7 -6048.4
6651.9

** MIN

ELEM COM LC PT AXIAL
SHEAR-y SHEAR-Z (+y)-BENDING-(-y)
(+z)-BENDING-(-z)

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17 AXL	합성후	1	I	63.5
0.0	0.0	139.6	-139.6	194.2
-214.1				
1 SHY	합성후	1	I	-26.5
0.0	0.0	131.5	-131.5	-127.0
140.0				
1 SHZ	합성후	1	I	-26.5
0.0	0.0	131.5	-131.5	-127.0
140.0				
9 BY+	합성후	1	I	41.9
0.0	0.0	212.7	-212.7	80.3
-88.5				
24 BY-	합성후	1	I	11.9
0.0	0.0	105.4	-105.4	-271.9
299.7				
17 BZ+	합성후	1	I	63.5
0.0	0.0	139.6	-139.6	194.2
-214.1				
1 BZ-	합성후	1	J	-26.5
0.0	0.0	147.7	-147.7	-377.8
416.5				
** MIN				
ELEM COM	LC	PT	AXIAL	
SHEAR-y	SHEAR-Z	(+y)-BENDING-(-y)		
(+z)-BENDING-(-z)				
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-----	-----	-----	-----	-----
-----	-----			
1 AXL	합성후	1	J	-26.5
0.0	0.0	147.7	-147.7	-377.8
416.5				
1 SHY	합성후	1	I	-26.5
0.0	0.0	131.5	-131.5	-127.0
140.0				
1 SHZ	합성후	1	I	-26.5
0.0	0.0	131.5	-131.5	-127.0
140.0				
24 BY+	합성후	1	I	11.9
0.0	0.0	105.4	-105.4	-271.9
299.7				
9 BY-	합성후	1	I	41.9
0.0	0.0	212.7	-212.7	80.3
-88.5				
1 BZ+	합성후	1	J	-26.5

0.0	0.0	147.7	-147.7	-377.8
416.5				
17 BZ-	합성후	1	I	63.5
0.0	0.0	139.6	-139.6	194.2
-214.1				
[SECTION NAME : cros				
, SECTION ID : 4				
, SECTION SHAPE : SB				
] [SECTION SIZE] H:1.3 B:0.25				
** MAX				
ELEM COM	LC	PT	AXIAL	
SHEAR-y	SHEAR-Z	(+y)-BENDING-(-y)		
(+z)-BENDING-(-z)				
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32 AXL	합성후	1	I	191.7
3.7	-32.0	19.4	-19.4	253.2
-253.2				
28 SHY	합성후	1	I	107.2
55.7	-143.5	-737.0	737.0	490.7
-490.7				
38 SHZ	합성후	1	J	-14.9
-18.2	199.9	-516.9	516.9	211.8
-211.8				
27 BY+	합성후	1	J	-86.9
55.2	159.4	785.2	-785.2	440.4
-440.4				
39 BY-	합성후	1	J	-88.4
-55.3	163.4	-784.3	784.3	451.9
-451.9				
33 BZ+	합성후	1	J	67.3
2.6	110.6	34.6	-34.6	650.6
-650.6				
37 BZ-	합성후	1	I	30.1
-53.2	72.9	719.9	-719.9	-239.6
239.6				
** MIN				
ELEM COM	LC	PT	AXIAL	
SHEAR-y	SHEAR-Z	(+y)-BENDING-(-y)		
(+z)-BENDING-(-z)				
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39 AXL	합성후	1	J	-88.4

-55.3 163.4 -784.3 784.3 451.9
-451.9
39 SHY 합성후 1 I -88.4
-55.3 102.7 674.6 -674.6 -223.5
223.5
34 SHZ 합성후 1 I 105.5
-53.0 -148.6 700.4 -700.4 500.0
-500.0
39 BY+ 합성후 1 J -88.4
-55.3 163.4 -784.3 784.3 451.9
-451.9
27 BY- 합성후 1 J -86.9
55.2 159.4 785.2 -785.2 440.4
-440.4
37 BZ+ 합성후 1 I 30.1
-53.2 72.9 719.9 -719.9 -239.6
239.6
33 BZ- 합성후 1 J 67.3
2.6 110.6 34.6 -34.6 650.6
-650.6

[SECTION NAME : tem , SECTION ID : 5 ,
SECTION SHAPE : SB]
[SECTION SIZE] H:0.0001 B:0.0001
** MAX

ELEM	COM	LC	PT	AXIAL
SHEAR-y		SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)
257	AXL	합성후	1 I	126.9
-0.0	-1.7e+008	3.7	-3.7	2.3e+011
-2.3e+011				
236	SHY	합성후	1 I	24.8
0.0	-1.7e+008	-3.3	3.3	2.3e+011
-2.3e+011				
240	SHZ	합성후	1 J	-1931.6
0.0	9.1e+008	0.0	-0.0	6.4e+012
-6.4e+012				
257	BY+	합성후	1 I	126.9
-0.0	-1.7e+008	3.7	-3.7	2.3e+011
-2.3e+011				
257	BY-	합성후	1 J	126.9
-0.0	1.7e+008	-3.7	3.7	2.3e+011
-2.3e+011				
253	BZ+	합성후	1 I	-2044.4
-0.0	-9.1e+008	0.0	-0.0	6.4e+012

-6.4e+012
257 BZ- 합성후 1 J 126.9
-0.0 1.7e+008 -3.7 3.7 2.3e+011
-2.3e+011
** MIN
ELEM COM LC PT AXIAL
SHEAR-y SHEAR-Z (+y)-BENDING-(-y)
(+z)-BENDING-(-z)

247 AXL 합성후 1 I -3753.3
0.0 -8.1e+008 -0.0 0.0 5.1e+012
-5.1e+012
257 SHY 합성후 1 I 126.9
-0.0 -1.7e+008 3.7 -3.7 2.3e+011
-2.3e+011
253 SHZ 합성후 1 I -2044.4
-0.0 -9.1e+008 0.0 -0.0 6.4e+012
-6.4e+012
257 BY+ 합성후 1 J 126.9
-0.0 1.7e+008 -3.7 3.7 2.3e+011
-2.3e+011
257 BY- 합성후 1 I 126.9
-0.0 -1.7e+008 3.7 -3.7 2.3e+011
-2.3e+011
257 BZ+ 합성후 1 J 126.9
-0.0 1.7e+008 -3.7 3.7 2.3e+011
-2.3e+011
253 BZ- 합성후 1 I -2044.4
-0.0 -9.1e+008 0.0 -0.0 6.4e+012
-6.4e+012