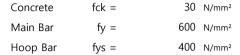


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

Member Name: C1-1_1_B2 Design by: ㈜씨앤피동양

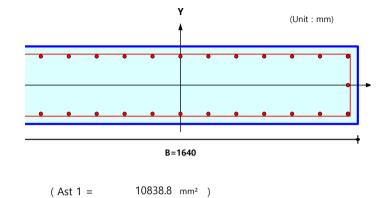
1. Design Condition

1.1 Material Property



1.2 Section Property

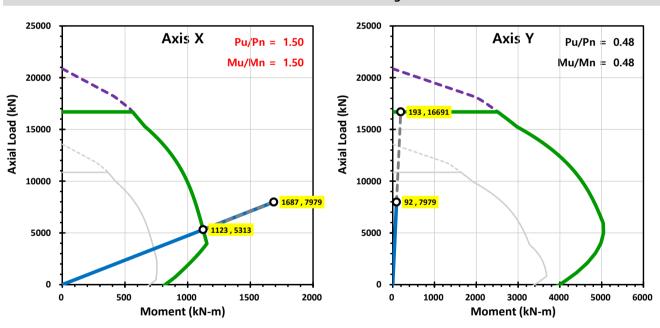
Height	H =	350	mm
Width	B =	1640	mm
Cover	Cc =	40	mm
Rehar	Laver 1 =	28 - 3 - D2	2



2. Axial and Moment Capacity

			About Axis X		About Axis Y	
 Applied Axial Force 	Pu	7979.0	kN	7979.0	kN	
 Applied Moment 	Mu	1686.9	kN-m	92.1	kN-m	

P - M Interaction Diagram



			Along Axis X			Along Axis Y			
• As - Hoop		2-D10 @	2-D10 @ 300			7-D10 @ 300			
 Applied Shear Force 	Vu	203.5	kN		14.9	kN			
• Design Shear Strength	Vc	835.4	kN		835.4	kN			
	Vs	249.6	kN		186.4	kN			
	Vn	835.4 +	249.6 =	1085.0 kN	835.4 + 1	186.4 =	1021.8 kN		
• Shear Ratio	Vu / Vn	0.19	≤ 1.00	O.K	0.01	≤ 1.00	O.K		

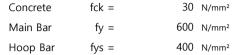


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

Member Name :C1-1_1_B1Design by :㈜씨앤피동양

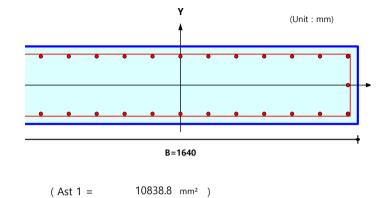
1. Design Condition

1.1 Material Property



1.2 Section Property

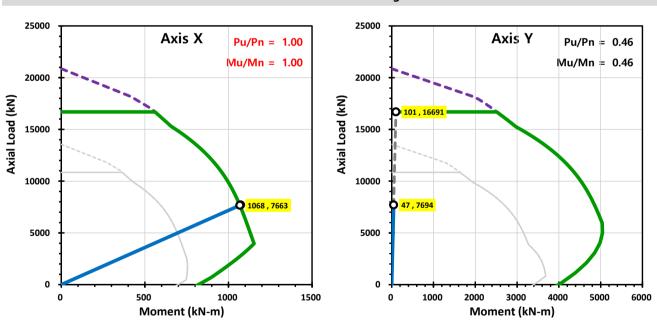
Height	H =	350	mm
Width	B =	1640	mm
Cover	Cc =	40	mm
Rehar	Laver 1 =	28 - 3 - D2	2



2. Axial and Moment Capacity

			About Axis X		About Axis Y	
 Applied Axial Force 	Pu	7694.5	kN	7694.5	kN	
 Applied Moment 	Mu	1072.5	kN-m	46.6	kN-m	

P - M Interaction Diagram



			Along Axi s	s X		Along Axi s	s Y
• As - Hoop		2-D10 @	300		7-D10 @	9 300	
 Applied Shear Force 	Vu	45.6	kN		1.8	kN	
• Design Shear Strength	Vc	820.6	kN		820.6	kN	
	Vs	249.6	kN		186.4	kN	
	Vn	820.6 +	249.6 =	1070.2 kN	820.6 +	186.4 =	1007.0 kN
• Shear Ratio	Vu / Vn	0.04	≤ 1.00	O.K	0.00	≤ 1.00	O.K

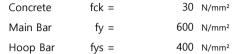


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

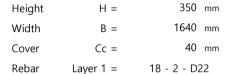
Member Name :C1-1_1_1FDesign by :㈜씨앤피동양

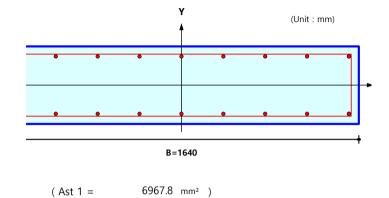
1. Design Condition

1.1 Material Property



1.2 Section Property

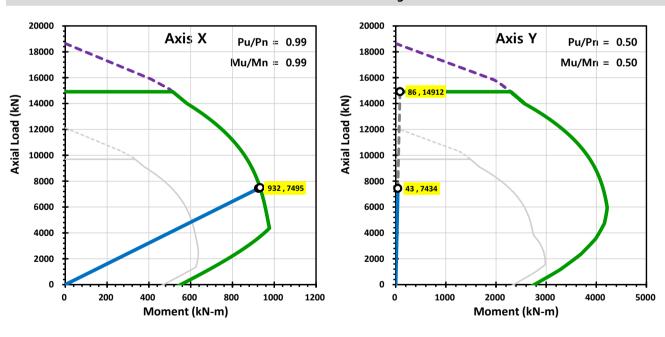




2. Axial and Moment Capacity

				About Axis X		About Axis Y
•	Applied Axial Force	Pu	7433.6	kN	7433.6	kN
•	Applied Moment	Mu	924.6	kN-m	43.0	kN-m

P - M Interaction Diagram



			Along Axis X				Al	ong Axi s	s Y
• As - Hoop		2-D10 @	300			9-D10 @	300		
 Applied Shear Force 	Vu	66.1	kN			3.9	kN		
• Design Shear Strength	Vc	807.0	kN			807.0	kN		
	Vs	249.6	kN			239.7	kN		
	Vn	807 + 24	19.6 =		1056.6 kN	807 + 23	39.7 =		1046.7 kN
• Shear Ratio	Vu / Vn	0.06	≤	1.00	O.K	0.00	≤	1.00	O.K

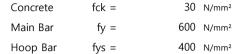


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

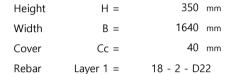
Member Name: C1-1_1_2F Design by: ㈜씨앤피동양

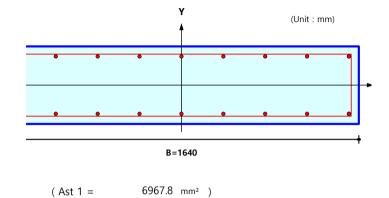
1. Design Condition

1.1 Material Property



1.2 Section Property

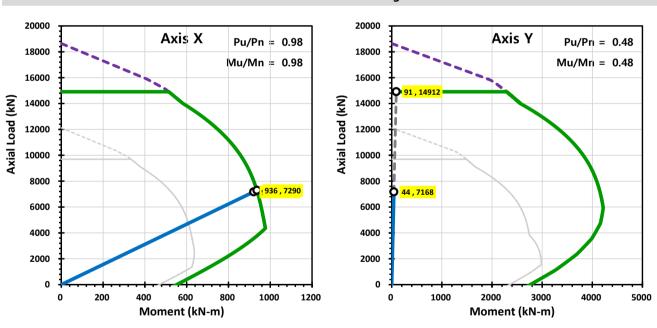




2. Axial and Moment Capacity

			About Axis X		About Axis Y
 Applied Axial Force 	Pu	7168.5	kN	7168.5	kN
 Applied Moment 	Mu	920.7	kN-m	43.8	kN-m

P - M Interaction Diagram



			Along Axis	s X		Along Axi s	s Y
• As - Hoop		2-D10 @	300		9-D10 @	9 300	
 Applied Shear Force 	Vu	40.1	kN		1.7	kN	
• Design Shear Strength	Vc	793.1	kN		793.1	kN	
	Vs	249.6	kN		239.7	kN	
	Vn	793.1 +	249.6 =	1042.7 kN	793.1 +	239.7 =	1032.8 kN
• Shear Ratio	Vu / Vn	0.04	≤ 1.00	O.K	0.00	≤ 1.00	O.K

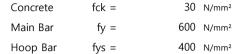


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

Member Name :C1-1_1_3FDesign by :㈜씨앤피동양

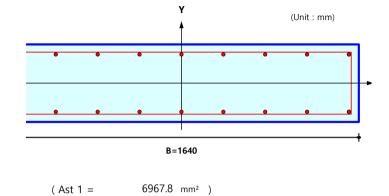
1. Design Condition

1.1 Material Property



1.2 Section Property

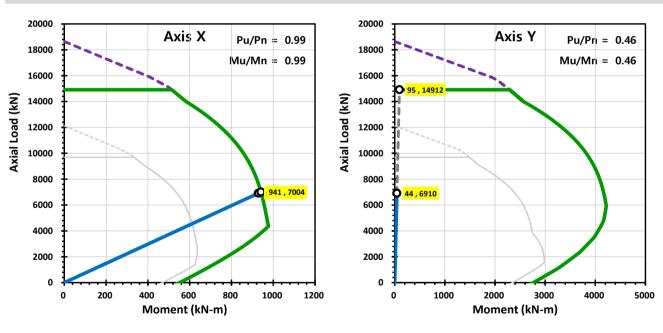
Height	H =	350 mm
Width	B =	1640 mm
Cover	Cc =	40 mm
Rebar	Layer 1 =	18 - 2 - D22



2. Axial and Moment Capacity

			About Axis X		About Axis Y
 Applied Axial Force 	Pu	6909.6	kN	6909.6	kN
 Applied Moment 	Mu	928.6	kN-m	43.8	kN-m

P - M Interaction Diagram



		Along Axis X			Along Axis Y		
• As - Hoop		2-D10 @	300		9-D10 @	300	
Applied Shear Force	Vu	51.5	kN		2.7	kN	
• Design Shear Strength	Vc	779.6	kN		779.6	kN	
	Vs	249.6	kN		239.7	kN	
	Vn	779.6 +	249.6 =	1029.2 kN	779.6 + 2	239.7 =	1019.3 kN
Shear Ratio	Vu / Vn	0.05	≤ 1.00	O.K	0.00	≤ 1.00	O.K

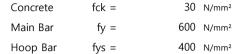


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

Member Name: C1-1_1_4F Design by: ㈜씨앤피동양

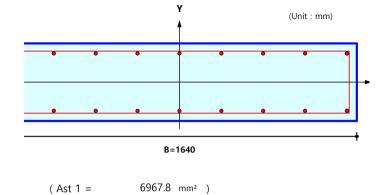
1. Design Condition

1.1 Material Property



1.2 Section Property

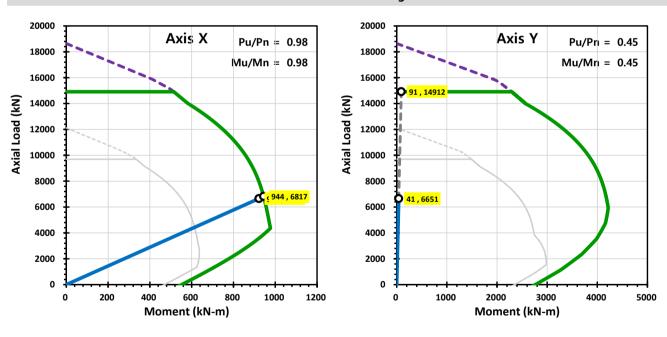
Height	H =	350 mm
Width	B =	1640 mm
Cover	Cc =	40 mm
Rebar	Layer 1 =	18 - 2 - D22



2. Axial and Moment Capacity

		About Axis X		About Axis Y		
 Applied Axial Force 	Pu	6650.7	kN	6650.7	kN	
 Applied Moment 	Mu	921.7	kN-m	40.7	kN-m	

P - M Interaction Diagram



		Along Axis X				Along Axis Y			
• As - Hoop		2-D10 @	300			9-D10 @	300		
 Applied Shear Force 	Vu	43.2	kN			2.0	kN		
• Design Shear Strength	Vc	766.1	kN			766.1	kN		
	Vs	249.6	kN			239.7	kN		
	Vn	766.1 + 2	249.6 =	1015.7 kN		766.1 + 2	239.7 =		1005.8 kN
• Shear Ratio	Vu / Vn	0.04	≤ 1.00	O.K		0.00	≤ 1	.00	O.K

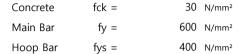


Project Title: 광명 재정비 촉진지구 4R 주택재개발 정비사업 성능기반내진설계

Member Name :C1-1_1_5FDesign by :㈜씨앤피동양

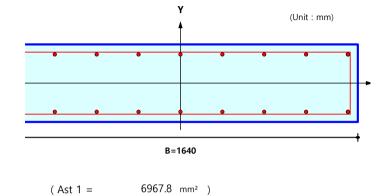
1. Design Condition

1.1 Material Property



1.2 Section Property

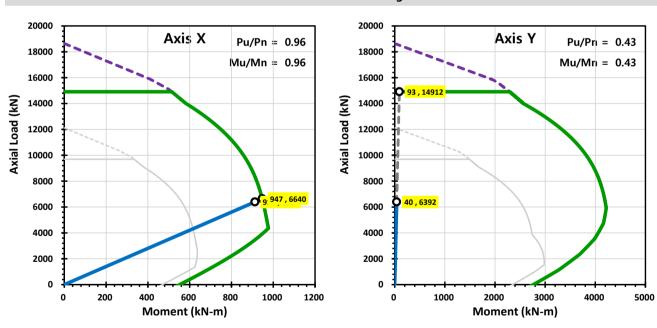
Height	H =	350 mm
Width	B =	1640 mm
Cover	Cc =	40 mm
Rebar	Laver 1 =	18 - 2 - D22



2. Axial and Moment Capacity

		About Axis X		About Axis Y		
 Applied Axial Force 	Pu	6391.8	kN	6391.8	kN	
 Applied Moment 	Mu	912.3	kN-m	39.8	kN-m	

P - M Interaction Diagram



			Along Axi s	s X		Along Axis Y			
• As - Hoop		2-D10 @	300		9-D10 @	9 300			
 Applied Shear Force 	Vu	43.4	kN		1.9	kN			
• Design Shear Strength	Vc	752.6	kN		752.6	kN			
	Vs	249.6	kN		239.7	kN			
	Vn	752.6 +	249.6 =	1002.2 kN	752.6 +	239.7 =	992.3 kN		
• Shear Ratio	Vu / Vn	0.04	≤ 1.00	O.K	0.00	≤ 1.00	O.K		