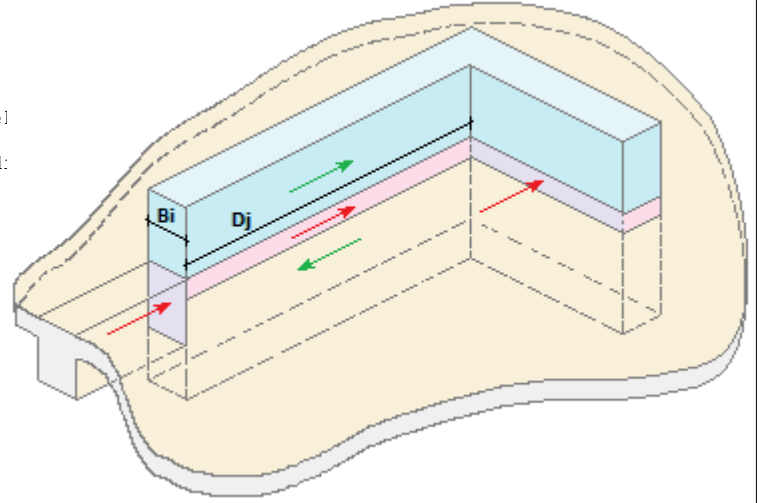


PERDE-DIYAFRAM KESME YÜKÜ KONTROLÜ

$V_x = (V_{xalt} - V_{xust}), \quad V_y = (V_{xalt} - V_{xust})$
 $V_{xr} = \sum f_{ctd} \times D \times L \times \cos \beta + \min \sum f_{cd} \times D \times L \times \sin \beta$
 $V_{yr} = \sum f_{ctd} \times D \times L \times \sin \beta + \min \sum f_{cd} \times D \times L \times \cos \beta$
 Basınç yüzeyi koşulu: $\rightarrow D_j / B_i > 2, \quad \sum V_{basinc} < \sum V_{çel}$
 Basınç yüzeyi; perde kayma rijitlik doğrultusunda,
 deprem +- doğrultularının en küçük alanı alınmaktadır:

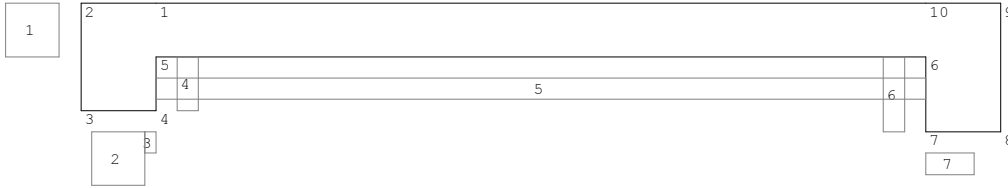


P113 panel-diyaftram deprem kesme yukleri:

$V_x = (V_{xalt} - V_{xust}) = (45.08 - .0) = 45.08, \quad V_y = (V_{xalt} - V_{xust}) = (49.85 - .0) = 49.85$

Yuzey no	Kenar no	Eleman no	D cm	L m	R1 m	R2 m	X1 m	Y1 m	X2 m	Y2 m	β °	Vxr	Vyr
1	2	K102	50	0.25	0.00	0.25	9.83	-0.13	9.83	0.13	270.0	0.0	16.0-→
2	3	K112	50	0.25	0.05	0.30	9.88	0.38	10.13	0.38	0.0	16.0	0.0
3	3	D103	15	0.05	0.30	0.35	10.13	0.38	10.18	0.38	0.0	1.0	0.0
4	4	D103	15	0.25	0.00	0.25	10.18	0.38	10.18	0.13	90.0	75.0-→	4.8
5	5	D103	15	3.60	0.00	3.60	10.18	0.13	13.78	0.13	0.0	69.0	0.0
6	6	D103	15	0.35	0.00	0.35	13.78	0.13	13.78	0.48	270.0	0.0	6.7-→
7	7	D103	15	0.23	0.00	0.23	13.78	0.48	14.00	0.48	0.0	4.4	0.0

Vr= 165.3 ✓ 27.5 ×



P118 panel-diyaftram deprem kesme yukleri:

$V_x = (V_{xalt} - V_{xust}) = (48.48 - 54.81) = 6.32, \quad V_y = (V_{xalt} - V_{xust}) = (-3.44 - 4.1) = 7.54$

Yuzey no	Kenar no	Eleman no	D cm	L m	R1 m	R2 m	X1 m	Y1 m	X2 m	Y2 m	β °	Vxr	Vyr
1	1	D107	18	0.35	0.00	0.35	0.18	9.38	0.18	9.03	90.0	0.0	8.0-→
2	2	D107	18	0.17	0.00	0.17	0.18	9.03	0.00	9.03	180.0	3.9	0.0
3	8	K108	50	0.25	0.01	0.26	6.28	9.63	6.28	9.38	90.0	0.0	16.0-→
4	8	D107	18	0.04	0.26	0.30	6.28	9.38	6.28	9.33	90.0	0.0	0.9-→
5	9	D107	18	0.50	0.00	0.50	6.28	9.33	5.78	9.33	180.0	11.5	0.0
6	10	D107	18	0.05	0.00	0.05	5.78	9.33	5.78	9.38	270.0	18.0-→	1.1
7	11	D107	18	5.60	0.00	5.60	5.78	9.38	0.18	9.38	180.0	128.7	0.0

Vr= 162.1 ✓ 26.1 ✓

