

Link		AADT		Car %	Bus %	LTf %	HTf %	Motor Cycle	Car	Util 1	Util 2	Small Bus	Large Bus	Truck 2x a)	Truck 2x b)	Truck 3x a)	Truck 3x b)	Truck 3x c)	No Mot Traf	Survey Year
Traffic Post	MBT	Total						Veh 1	Veh 2	Veh 3	Veh 4	Veh5a	Veh5b	Veh6a	Veh6b	Veh7a	Veh7b	Veh7c	Veh 8	
025 - TEMPEL - PAKEM																				
B025	2,768	9,890	86.89	0.98	11.34	0.79	6,944	1,822	252	531	18	9	90	224	22	0	0	178	2017	
026 - PAKEM - PRAMBANAN																				
B026	3,906	14,182	87.02	1.69	10.96	0.33	10,090	1,820	533	748	45	21	97	331	9	2	2	186	2017	

3 LAPIS new

INPUT FILE NAME -C:\Users\INDRI\Downloads\setupKENPAVE (1)\KENPAVE\3 LAPIS new.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -3 LAPIS

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM

NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED

NUMBER OF PERIODS PER YEAR (NPY) = 1

NUMBER OF LOAD GROUPS (NLG) = 1

TOLERANCE FOR INTEGRATION (DEL) -- = 0

NUMBER OF LAYERS (NL)----- = 3

NUMBER OF Z COORDINATES (NZ)----- = 4

LIMIT OF INTEGRATION CYCLES (ICL)- = 80

COMPUTING CODE (NSTD)----- = 9

SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 18 30

POISSON'S RATIOS OF LAYERS (PR) ARE : 0,35 0,4 0,45

VERTICAL COORDINATES OF POINTS (ZC) ARE: 17,995 18,005 47,995 48,005

ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 1,350E+06 2 2,500E+05
3 1,500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS

CONTACT RADIUS (CR)----- = 11

CONTACT PRESSURE (CP)----- = 550

NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3

WHEEL SPACING ALONG X-AXIS (XW)----- = 0

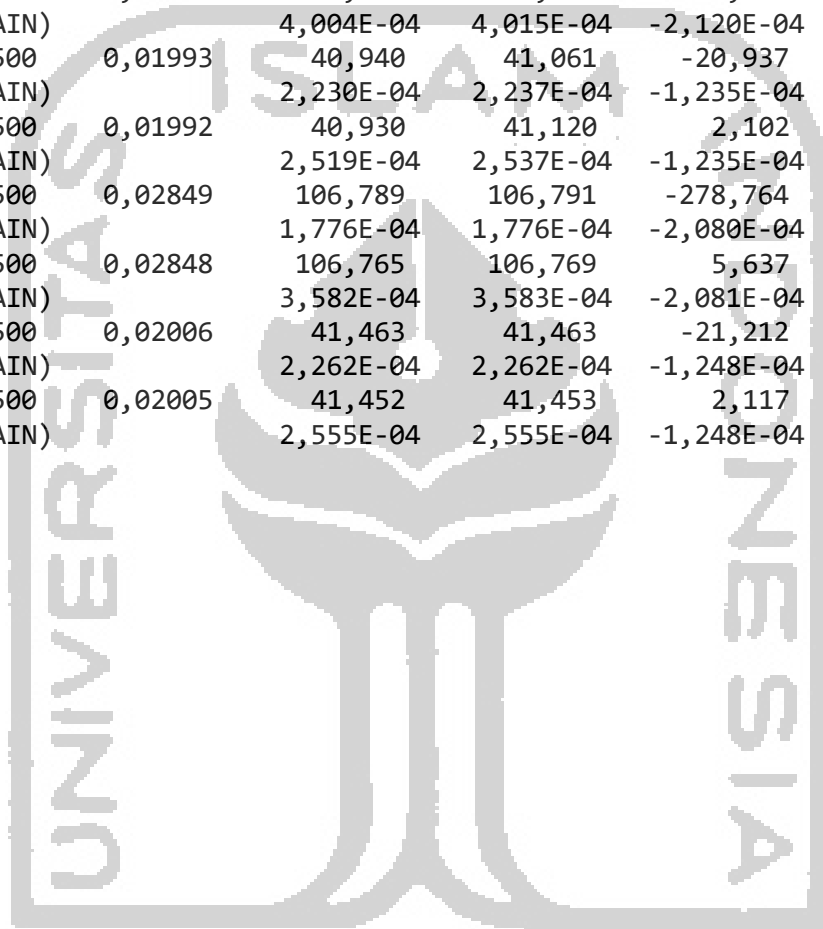
WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0,000 0,000 2 0,000 10,000
3 0,000 16,500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	17,99500	0,02765	125,776	126,422	-325,912	-251,603
	(STRAIN)		2,427E-04	2,434E-04	-2,090E-04	-2,090E-04
1	18,00500	0,02764	125,705	127,938	5,622	16,780

3 LAPIS new						
	(STRAIN)		4,634E-04	4,759E-04	-2,091E-04	-2,091E-04
1	47,99500	0,01923	38,017	38,809	-19,408	-14,463
	(STRAIN)		2,050E-04	2,094E-04	-1,166E-04	-1,166E-04
1	48,00500	0,01923	38,008	39,233	2,021	4,119
	(STRAIN)		2,313E-04	2,431E-04	-1,166E-04	-1,166E-04
2	17,99500	0,02850	115,104	115,168	-299,754	-154,265
	(STRAIN)		2,030E-04	2,030E-04	-2,119E-04	-2,119E-04
2	18,00500	0,02850	115,062	115,261	5,704	31,506
	(STRAIN)		4,004E-04	4,015E-04	-2,120E-04	-2,120E-04
2	47,99500	0,01993	40,940	41,061	-20,937	-16,225
	(STRAIN)		2,230E-04	2,237E-04	-1,235E-04	-1,235E-04
2	48,00500	0,01992	40,930	41,120	2,102	4,711
	(STRAIN)		2,519E-04	2,537E-04	-1,235E-04	-1,235E-04
3	17,99500	0,02849	106,789	106,791	-278,764	-101,054
	(STRAIN)		1,776E-04	1,776E-04	-2,080E-04	-2,080E-04
3	18,00500	0,02848	106,765	106,769	5,637	37,376
	(STRAIN)		3,582E-04	3,583E-04	-2,081E-04	-2,081E-04
3	47,99500	0,02006	41,463	41,463	-21,212	-16,515
	(STRAIN)		2,262E-04	2,262E-04	-1,248E-04	-1,248E-04
3	48,00500	0,02005	41,452	41,453	2,117	4,836
	(STRAIN)		2,555E-04	2,555E-04	-1,248E-04	-1,248E-04



3 lapis 19 30

INPUT FILE NAME -C:\Users\INDRI\Downloads\setupKENPAVE (1)\KENPAVE\3 lapis 19 30.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -2

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0
 NUMBER OF LAYERS (NL)----- = 3
 NUMBER OF Z COORDINATES (NZ)----- = 4
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 19 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0,35 0,4 0,45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 18,995 19,005 48,995 49,005
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 1,350E+06 2 2,500E+05
 3 1,500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0,000 0,000 2 0,000 10,000
 3 0,000 16,500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	18,99500 (STRAIN)	0,02679	116,867 2,279E-04	117,522 2,285E-04	-308,296 -1,973E-04	-237,378 -1,973E-04

3 lapis 19 30

1	19,00500 (STRAIN)	0,02678	116,803 4,335E-04	119,070 4,462E-04	4,150 -1,974E-04	14,670 -1,974E-04
1	48,99500 (STRAIN)	0,01881	36,378 1,963E-04	37,120 2,004E-04	-18,527 -1,112E-04	-13,948 -1,112E-04
1	49,00500 (STRAIN)	0,01881	36,370 2,215E-04	37,518 2,326E-04	1,957 -1,112E-04	3,891 -1,112E-04
2	18,99500 (STRAIN)	0,02765	108,640 1,955E-04	108,670 1,956E-04	-288,389 -2,015E-04	-155,463 -2,015E-04
2	19,00500 (STRAIN)	0,02765	108,601 3,828E-04	108,692 3,833E-04	4,240 -2,016E-04	27,899 -2,016E-04
2	48,99500 (STRAIN)	0,01947	39,116 2,133E-04	39,229 2,139E-04	-19,963 -1,176E-04	-15,643 -1,176E-04
2	49,00500 (STRAIN)	0,01947	39,106 2,408E-04	39,285 2,426E-04	2,029 -1,176E-04	4,418 -1,176E-04
3	18,99500 (STRAIN)	0,02767	101,830 1,744E-04	101,831 1,744E-04	-271,136 -1,986E-04	-110,629 -1,986E-04
3	19,00500 (STRAIN)	0,02766	101,804 3,479E-04	101,807 3,479E-04	4,211 -1,987E-04	32,878 -1,987E-04
3	48,99500 (STRAIN)	0,01959	39,608 2,163E-04	39,608 2,163E-04	-20,222 -1,188E-04	-15,926 -1,188E-04
3	49,00500 (STRAIN)	0,01959	39,598 2,443E-04	39,599 2,443E-04	2,042 -1,188E-04	4,529 -1,188E-04

UNIVERSITAS AISIA

UNIVERSITAS AISIA

UNIVERSITAS AISIA

3 lapis 20 30

INPUT FILE NAME -C:\Users\INDRI\Downloads\setupKENPAVE (1)\KENPAVE\3 lapis 20 30.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -2

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0
 NUMBER OF LAYERS (NL)----- = 3
 NUMBER OF Z COORDINATES (NZ)----- = 4
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0,35 0,4 0,45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 19,995 20,005 49,995 50,005
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 1,350E+06 2 2,500E+05
 3 1,500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0,000 0,000 2 0,000 10,000
 3 0,000 16,500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	19,99500 (STRAIN)	0,02598	108,850 2,143E-04	109,510 2,149E-04	-291,887 -1,865E-04	-224,303 -1,865E-04

3 lapis 20 30						
1	20,00500 (STRAIN)	0,02597	108,791 4,063E-04	111,077 4,191E-04	2,935 -1,865E-04	12,840 -1,865E-04
1	49,99500 (STRAIN)	0,01841	34,839 1,881E-04	35,534 1,920E-04	-17,707 -1,061E-04	-13,458 -1,061E-04
1	50,00500 (STRAIN)	0,01840	34,831 2,123E-04	35,907 2,227E-04	1,893 -1,061E-04	3,680 -1,061E-04
2	19,99500 (STRAIN)	0,02684	102,662 1,883E-04	102,672 1,883E-04	-277,304 -1,916E-04	-155,784 -1,916E-04
2	20,00500 (STRAIN)	0,02684	102,625 3,662E-04	102,657 3,663E-04	3,004 -1,917E-04	24,680 -1,917E-04
2	49,99500 (STRAIN)	0,01903	37,404 2,041E-04	37,511 2,047E-04	-19,056 -1,121E-04	-15,086 -1,121E-04
2	50,00500 (STRAIN)	0,01903	37,395 2,305E-04	37,563 2,321E-04	1,956 -1,121E-04	4,149 -1,121E-04
3	19,99500 (STRAIN)	0,02688	97,094 1,708E-04	97,094 1,708E-04	-263,185 -1,895E-04	-118,034 -1,895E-04
3	20,00500 (STRAIN)	0,02688	97,068 3,372E-04	97,070 3,372E-04	2,994 -1,896E-04	28,919 -1,896E-04
3	49,99500 (STRAIN)	0,01914	37,867 2,069E-04	37,868 2,069E-04	-19,301 -1,132E-04	-15,363 -1,132E-04
3	50,00500 (STRAIN)	0,01914	37,858 2,337E-04	37,859 2,338E-04	1,967 -1,132E-04	4,247 -1,132E-04

UNIVERSITAS ISIA
UNIVERSITAS ISIA
UNIVERSITAS ISIA

3 lapis 20,5 30

INPUT FILE NAME -C:\Users\INDRI\Downloads\setupKENPAVE (1)\KENPAVE\3 lapis 20
30.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -2

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
NUMBER OF PERIODS PER YEAR (NPY) = 1
NUMBER OF LOAD GROUPS (NLG) = 1
TOLERANCE FOR INTEGRATION (DEL) -- = 0
NUMBER OF LAYERS (NL)----- = 3
NUMBER OF Z COORDINATES (NZ)----- = 4
LIMIT OF INTEGRATION CYCLES (ICL)- = 80
COMPUTING CODE (NSTD)----- = 9
SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 20,5 30
POISSON'S RATIOS OF LAYERS (PR) ARE : 0,35 0,4 0,45
VERTICAL COORDINATES OF POINTS (ZC) ARE: 20,495 20,505 49,495 50,505
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 1,350E+06 2 2,500E+05
3 1,500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
CONTACT RADIUS (CR)----- = 11
CONTACT PRESSURE (CP)----- = 550
NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
WHEEL SPACING ALONG X-AXIS (XW)----- = 0
WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0,000 0,000 2 0,000 10,000
3 0,000 16,500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	20,49500 (STRAIN)	0,02559	105,141 2,079E-04	105,802 2,086E-04	-284,118 -1,813E-04	-218,172 -1,813E-04

3 lapis 20,5 30						
1	20,50500 (STRAIN)	0,02559	105,085 3,936E-04	107,376 4,064E-04	2,407 -1,814E-04	12,014 -1,814E-04
1	49,49500 (STRAIN)	0,01839	34,933 1,841E-04	35,720 1,885E-04	-16,243 -1,024E-04	-12,298 -1,024E-04
1	50,50500 (STRAIN)	0,01821	34,097 2,079E-04	35,139 2,179E-04	1,860 -1,038E-04	3,579 -1,038E-04
2	20,49500 (STRAIN)	0,02646	99,840 1,848E-04	99,846 1,848E-04	-271,884 -1,869E-04	-155,664 -1,869E-04
2	20,50500 (STRAIN)	0,02645	99,804 3,581E-04	99,820 3,582E-04	2,459 -1,870E-04	23,203 -1,870E-04
2	49,49500 (STRAIN)	0,01901	37,501 1,997E-04	37,621 2,003E-04	-17,463 -1,081E-04	-13,687 -1,081E-04
2	50,50500 (STRAIN)	0,01881	36,579 2,255E-04	36,743 2,271E-04	1,919 -1,095E-04	4,023 -1,095E-04
3	20,49500 (STRAIN)	0,02650	94,811 1,688E-04	94,812 1,688E-04	-259,138 -1,852E-04	-121,039 -1,852E-04
3	20,50500 (STRAIN)	0,02650	94,786 3,318E-04	94,787 3,318E-04	2,455 -1,852E-04	27,121 -1,852E-04
3	49,49500 (STRAIN)	0,01913	37,962 2,024E-04	37,963 2,024E-04	-17,687 -1,092E-04	-13,924 -1,092E-04
3	50,50500 (STRAIN)	0,01892	37,029 2,287E-04	37,030 2,287E-04	1,930 -1,106E-04	4,115 -1,106E-04

UNIVERSITAS ISIA
UNIVERSITAS ISIA
UNIVERSITAS ISIA

5 lapis

INPUT FILE NAME -C:\Users\INDRI\Downloads\setupKENPAVE (1)\KENPAVE\5 lapis.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -3

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM

NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED

NUMBER OF PERIODS PER YEAR (NPY) = 1

NUMBER OF LOAD GROUPS (NLG) = 1

TOLERANCE FOR INTEGRATION (DEL) -- = 0

NUMBER OF LAYERS (NL)----- = 5

NUMBER OF Z COORDINATES (NZ)----- = 8

LIMIT OF INTEGRATION CYCLES (ICL)- = 80

COMPUTING CODE (NSTD)----- = 9

SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 4 6 8 30

POISSON'S RATIOS OF LAYERS (PR) ARE : 0,35 0,35 0,35 0,4 0,45

VERTICAL COORDINATES OF POINTS (ZC) ARE: 3,995 4,005 9,995 10,005

17,995 18,005 47,995 48,005

ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 1,100E+06 2 1,200E+06

3 1,600E+06 4 2,500E+05 5 1,500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS

CONTACT RADIUS (CR)----- = 11

CONTACT PRESSURE (CP)----- = 550

NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3

WHEEL SPACING ALONG X-AXIS (XW)----- = 0

WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0,000 0,000 2 0,000 10,000

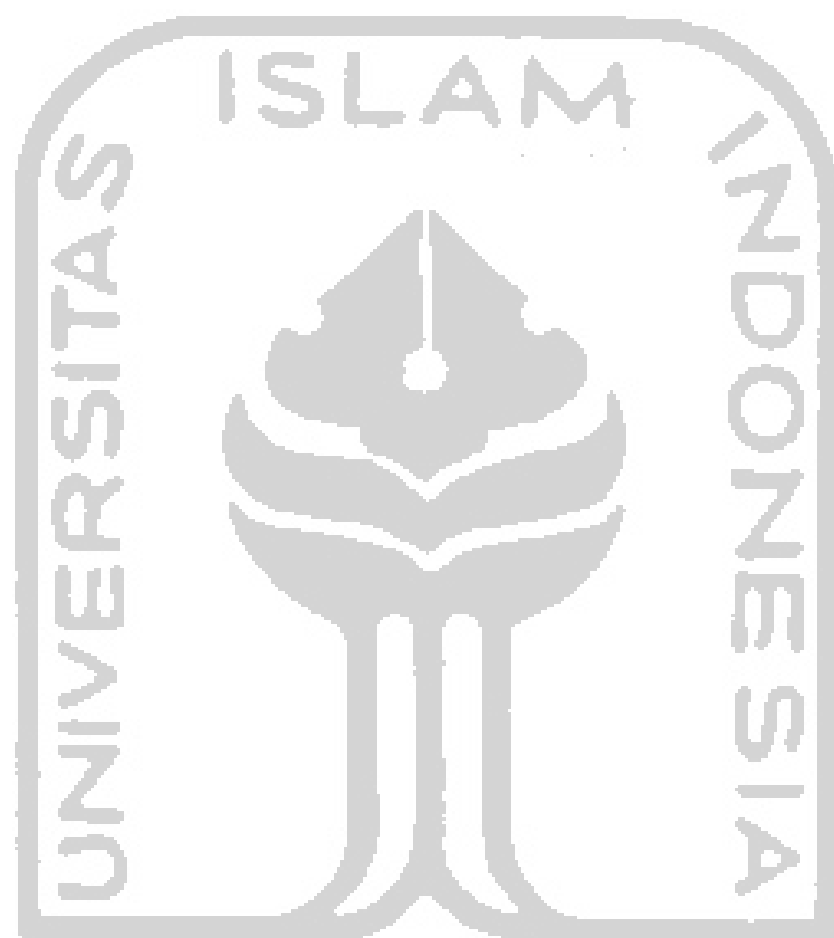
3 0,000 16,500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISP.	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE P. STRESS (HORIZONTAL P. STRAIN)
1	3,99500 (STRAIN)	0,03086	522,124 2,577E-04	523,056 2,589E-04	326,196 1,728E-05	354,634 1,842E-05

5 lapis

1	4,00500 (STRAIN)	0,03085	521,952 2,333E-04	522,906 2,344E-04	329,770 1,710E-05	360,654 1,817E-05
1	9,99500 (STRAIN)	0,02936	341,550 2,267E-04	344,195 2,297E-04	95,771 -4,978E-05	100,094 -4,977E-05
1	10,00500 (STRAIN)	0,02935	341,179 1,823E-04	343,562 1,843E-04	65,983 -4,988E-05	72,969 -4,988E-05
1	17,99500 (STRAIN)	0,02786	126,680 2,276E-04	127,224 2,280E-04	-381,729 -2,014E-04	-297,229 -2,014E-04
1	18,00500 (STRAIN)	0,02785	126,609 4,571E-04	128,763 4,692E-04	8,992 -2,015E-04	19,660 -2,015E-04
1	47,99500 (STRAIN)	0,01942	38,682 2,075E-04	39,487 2,120E-04	-19,400 -1,178E-04	-14,362 -1,178E-04
1	48,00500 (STRAIN)	0,01942	38,673 2,340E-04	39,918 2,460E-04	2,285 -1,178E-04	4,423 -1,178E-04
2	3,99500 (STRAIN)	0,03049	322,908 1,287E-04	433,607 2,646E-04	148,699 -8,507E-05	258,607 4,982E-05
2	4,00500 (STRAIN)	0,03049	322,597 1,134E-04	436,355 2,414E-04	153,179 -7,715E-05	265,808 4,956E-05
2	9,99500 (STRAIN)	0,02980	203,054 1,206E-04	257,149 1,814E-04	53,559 -4,760E-05	59,091 -4,138E-05
2	10,00500 (STRAIN)	0,02979	202,899 9,428E-05	256,739 1,397E-04	41,974 -4,150E-05	52,906 -4,150E-05
2	17,99500 (STRAIN)	0,02872	115,823 1,881E-04	115,886 1,882E-04	-348,542 -2,037E-04	-180,677 -2,037E-04
2	18,00500 (STRAIN)	0,02872	115,782 3,933E-04	116,002 3,946E-04	9,152 -2,038E-04	34,246 -2,038E-04
2	47,99500 (STRAIN)	0,02014	41,676 2,258E-04	41,798 2,265E-04	-20,935 -1,248E-04	-16,122 -1,248E-04
2	48,00500 (STRAIN)	0,02013	41,665 2,549E-04	41,858 2,567E-04	2,388 -1,248E-04	5,054 -1,248E-04
3	3,99500 (STRAIN)	0,02928	27,134 -1,051E-04	232,326 1,467E-04	27,134 -1,051E-04	175,570 7,705E-05
3	4,00500 (STRAIN)	0,02928	27,289 -1,062E-04	252,118 1,467E-04	27,289 -1,062E-04	189,922 7,677E-05
3	9,99500 (STRAIN)	0,02949	99,136 3,874E-05	114,331 5,584E-05	36,083 -3,219E-05	99,136 -3,219E-05
3	10,00500 (STRAIN)	0,02949	99,200 2,609E-05	134,214 5,563E-05	29,951 -3,234E-05	99,200 -3,234E-05
3	17,99500 (STRAIN)	0,02870	107,326 1,631E-04	107,326 1,631E-04	-322,517 -1,996E-04	-116,449 -1,996E-04
3	18,00500 (STRAIN)	0,02870	107,302 3,506E-04	107,302 3,506E-04	9,035 -1,997E-04	40,096 -1,997E-04
3	47,99500 (STRAIN)	0,02027	42,213 2,290E-04	42,213 2,290E-04	-21,212 -1,261E-04	-16,410 -1,261E-04
3	48,00500 (STRAIN)	0,02027	42,203 2,586E-04	42,203 2,586E-04	2,406 -1,261E-04	5,188 -1,261E-04



جامعة الإسلام في إندونيسيا