

PROYECTO:	COMPLEJO VIAL TLAXCALA	DESCRIPCIÓN:	uu-0.25
	PUENTE MOLINITO - TEXMELUCAN	POZO	SPT 2
MUESTRA:	M-11	FECHA:	30-nov-17
PROF.:	6.20 - 7.20	OPERADOR:	ABJ

H0=	9.058	cm
D0=	3.687	cm
A0=	10.675	cm ²
σ ₃ =	0.250	kg/cm ²

Registrados en el ensaye		Parámetros calculados			
Carga	Desplazamiento	Def. unitaria axial	Área corregida	Esfuerzo desviador	Esfuerzo cortante
P	δ	ε	Ac	q	τ
kg	mm	mm/mm	cm ²	kg/cm ²	kg/cm ²
0.000	0.000	0.000	10.675	0.000	0.000
1.669	0.127	0.001	10.690	0.156	0.078
3.894	0.254	0.003	10.705	0.364	0.182
5.841	0.381	0.004	10.720	0.545	0.272
7.510	0.508	0.006	10.735	0.700	0.350
9.179	0.670	0.007	10.754	0.854	0.427
10.570	0.790	0.009	10.769	0.982	0.491
11.961	0.900	0.010	10.782	1.109	0.555
13.352	1.016	0.011	10.796	1.237	0.618
14.465	1.143	0.013	10.811	1.338	0.669
15.577	1.270	0.014	10.827	1.439	0.719
16.690	1.397	0.015	10.842	1.539	0.770
17.803	1.524	0.017	10.857	1.640	0.820
18.915	1.651	0.018	10.873	1.740	0.870
19.750	1.778	0.020	10.889	1.814	0.907
20.306	1.905	0.021	10.904	1.862	0.931
20.862	2.032	0.022	10.920	1.911	0.955
21.419	2.159	0.024	10.935	1.959	0.979
21.975	2.310	0.026	10.954	2.006	1.003
22.253	2.432	0.027	10.969	2.029	1.014
22.531	2.564	0.028	10.986	2.051	1.025
22.809	2.696	0.030	11.002	2.073	1.037
22.976	2.831	0.031	11.019	2.085	1.043
23.143	2.964	0.033	11.036	2.097	1.049
23.310	3.097	0.034	11.053	2.109	1.055
23.366	3.230	0.036	11.070	2.111	1.055
23.477	3.363	0.037	11.086	2.118	1.059
23.366	3.496	0.039	11.103	2.104	1.052
23.088	3.629	0.040	11.120	2.076	1.038
22.809	3.762	0.042	11.137	2.048	1.024
22.531	3.895	0.043	11.154	2.020	1.010
22.253	4.028	0.044	11.172	1.992	0.996
21.697	4.161	0.046	11.189	1.939	0.970
21.141	4.294	0.047	11.206	1.887	0.943
20.584	4.428	0.049	11.223	1.834	0.917

ESTUDIO Y PROYECTO PARA LA CONSTRUCCIÓN DEL COMPLEJO VIAL METROPOLITANO "TLAXCALA"

PROYECTO:	COMPLEJO VIAL TLAXCALA	DESCRIPCIÓN:	uu-0.75
	PUENTE MOLINITO - TEXMELUCAN	POZO	SPT 2
MUESTRA:	M-11	FECHA:	30-nov-17
PROF.:	6.20 - 7.20	OPERADOR:	ABJ

$H_0 = 9.410 \text{ cm}$
 $D_0 = 3.740 \text{ cm}$
 $A_0 = 10.986 \text{ cm}^2$
 $\sigma_3 = 0.500 \text{ kg/cm}^2$

Registrados en el ensaye		Parámetros calculados			
Carga	Desplazamiento	Def. unitaria axial	Área corregida	Esfuerzo desviador	Esfuerzo cortante
P kg	δ mm	ϵ mm/mm	A _c cm ²	q kg/cm ²	τ kg/cm ²
0.00	0.000	0.000	10.986	0.000	0.000
1.03	0.127	0.001	11.001	0.093	0.047
2.05	0.254	0.003	11.016	0.186	0.093
3.08	0.381	0.004	11.031	0.279	0.140
4.11	0.508	0.005	11.045	0.372	0.186
5.65	0.635	0.007	11.060	0.511	0.255
7.19	0.762	0.008	11.076	0.649	0.324
8.21	0.889	0.009	11.091	0.741	0.370
9.24	1.016	0.011	11.106	0.832	0.416
10.27	1.143	0.012	11.121	0.923	0.462
11.29	1.270	0.013	11.136	1.014	0.507
12.42	1.397	0.015	11.151	1.114	0.557
13.86	1.524	0.016	11.167	1.241	0.621
14.89	1.651	0.018	11.182	1.331	0.666
15.91	1.778	0.019	11.197	1.421	0.711
16.94	1.905	0.020	11.213	1.511	0.755
17.97	2.032	0.022	11.228	1.600	0.800
18.99	2.159	0.023	11.244	1.689	0.845
20.02	2.286	0.024	11.259	1.778	0.889
20.79	2.413	0.026	11.275	1.844	0.922
21.56	2.540	0.027	11.291	1.910	0.955
22.33	2.667	0.028	11.306	1.975	0.988
22.84	2.794	0.030	11.322	2.018	1.009
23.36	2.921	0.031	11.338	2.060	1.030
23.87	3.048	0.032	11.354	2.102	1.051
24.38	3.175	0.034	11.369	2.145	1.072
24.90	3.302	0.035	11.385	2.187	1.093
25.41	3.429	0.036	11.401	2.229	1.114
25.77	3.556	0.038	11.417	2.257	1.129
26.08	3.683	0.039	11.433	2.281	1.140
26.28	3.810	0.040	11.449	2.296	1.148
26.18	3.937	0.042	11.466	2.283	1.142
25.92	4.064	0.043	11.482	2.258	1.129
25.67	4.191	0.045	11.498	2.232	1.116
25.41	4.318	0.046	11.514	2.207	1.103
25.15	4.445	0.047	11.531	2.182	1.091
24.64	4.572	0.049	11.547	2.134	1.067
24.13	4.699	0.050	11.563	2.087	1.043
23.61	4.826	0.051	11.580	2.039	1.020

ESTUDIO Y PROYECTO PARA LA CONSTRUCCIÓN DEL COMPLEJO VIAL METROPOLITANO "TLAXCALA"

PROYECTO:	COMPLEJO VIAL TLAXCALA	DESCRIPCIÓN:	uu-1.0
	PUEBLO MOLINITO - TEXMELUCAN	POZO	SPT 2
MUESTRA:	M-11	FECHA:	30-nov-17
PROF.:	6.20 - 7.20	OPERADOR:	ABJ

$H_0 = 10.258 \text{ cm}$
 $D_0 = 3.637 \text{ cm}$
 $A_0 = 10.387 \text{ cm}^2$
 $\sigma_3 = 0.750 \text{ kg/cm}^2$

Registrados en el ensaye		Parámetros calculados			
Carga	Desplazamiento	Def. unitaria axial	Area corregida	Esfuerzo desviador	Esfuerzo cortante
P	δ	ϵ	Ac	q	τ
kg	mm	mm/mm	cm ²	kg/cm ²	kg/cm ²
0.00	0.000	0.000	10.387	0.000	0.000
1.06	0.127	0.001	10.400	0.102	0.051
2.12	0.254	0.002	10.413	0.203	0.102
3.17	0.381	0.004	10.426	0.304	0.152
4.23	0.508	0.005	10.439	0.405	0.203
5.82	0.635	0.006	10.452	0.557	0.278
7.41	0.762	0.007	10.465	0.708	0.354
8.47	0.889	0.009	10.478	0.808	0.404
9.52	1.016	0.010	10.491	0.908	0.454
10.58	1.143	0.011	10.504	1.007	0.504
11.64	1.270	0.012	10.517	1.107	0.553
12.80	1.397	0.014	10.531	1.216	0.608
14.28	1.524	0.015	10.544	1.355	0.677
15.34	1.651	0.016	10.557	1.453	0.727
16.40	1.778	0.017	10.570	1.552	0.776
17.46	1.905	0.019	10.584	1.650	0.825
18.52	2.032	0.020	10.597	1.747	0.874
19.58	2.159	0.021	10.611	1.845	0.922
20.63	2.286	0.022	10.624	1.942	0.971
21.43	2.413	0.024	10.637	2.014	1.007
22.22	2.540	0.025	10.651	2.086	1.043
23.01	2.667	0.026	10.664	2.158	1.079
23.54	2.794	0.027	10.678	2.205	1.102
24.07	2.921	0.028	10.692	2.252	1.126
24.60	3.048	0.030	10.705	2.298	1.149
25.13	3.175	0.031	10.719	2.344	1.172
25.66	3.302	0.032	10.733	2.391	1.195
26.19	3.429	0.033	10.746	2.437	1.218
26.56	3.556	0.035	10.760	2.468	1.234
26.88	3.683	0.036	10.774	2.495	1.247
26.85	3.810	0.037	10.788	2.489	1.244
26.98	3.937	0.038	10.802	2.498	1.249
26.72	4.064	0.040	10.816	2.470	1.235
26.45	4.191	0.041	10.830	2.443	1.221
26.19	4.318	0.042	10.844	2.415	1.208
25.92	4.445	0.043	10.858	2.388	1.194
25.40	4.572	0.045	10.872	2.336	1.168
24.87	4.699	0.046	10.886	2.284	1.142
24.34	4.826	0.047	10.900	2.233	1.116



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ESTUDIO Y PROYECTO PARA LA CONSTRUCCIÓN DEL COMPLEJO VIAL METROPOLITANO "TLAXCALA"



PROYECTO:	COMPLEJO VIAL TLAXCALA	DESCRIPCIÓN:	GRAFICA ESFUERZO DEFORMACIÓN
	PUENTE MOLINITO - TEXMELUCA	POZO	SPT 2
MUESTRA:	M-11	FECHA:	30-nov-17
PROF.:	6.20 - 7.20	OPERADOR:	ABJ

Ensaye:	uu-0.25	Ensaye:	uu-0.50	Ensaye:	uu-0.75
H_0 =	9.058 cm	H_0 =	9.410 cm	H_0 =	10.258 cm
D_0 =	3.687 cm	D_0 =	3.740 cm	D_0 =	3.637 cm
A_0 =	10.675 cm ²	A_0 =	10.986 cm ²	A_0 =	10.387 cm ²
σ_3 =	0.250 kg/cm ²	σ_3 =	0.500 kg/cm ²	σ_3 =	0.750 kg/cm ²
w=	%	w=	%	w=	%
Wm=	180.1 g	Wm=	180.47 g	Wm=	192.3 g
γ	1.863 g/cm ³	γ	1.746 g/cm ³	γ	1.805 g/cm ³

