

COMBINACIÓN DE MATERIALES PÉTREOS PARA DISEÑO DE MEZCLA MDC-10, MDC-19 Y MDC-25

ACOPIO 1"					ACOPIO 3/4"					ACOPIO 3/8" PLANTA					ACOPIO 3/8" AVENZA					MDC-10	MDC-19	MDC-25
TAMIZ	PESO RET	% RET	%RET. ACUM.	% PASA	PESO RET	% RET	%RET. ACUM.	% PASA		PESO RET	% RET	%RET. ACUM.	% PASA		PESO RET	% RET	%RET. ACUM.	% PASA		% ASFALTO DISEÑO	% ASFALTO DISEÑO	% ASFALTO DISEÑO
1"	25.00	0	0.0	0.0	100.0	0	0.0	0.0	100.0	0	0.0	0.0	100.0	0	0	0.0	0.0	100.0		6.1	5.3	5.2
3/4"	19.00	96.2	29.3	29.3	70.7	0	0.0	0.0	100.0	0	0.0	0.0	100.0	0	0	0.0	0.0	100.0				
1/2"	12.50	1429	45.2	74.5	25.5	1891.2	63.1	63.1	36.9	0	0.0	0.0	100.0	0	0	0.0	0.0	100.0				
3/8"	9.500	406.9	12.9	87.4	12.6	940.6	31.4	94.4	5.6	0	0.0	0.0	100.0	0	0	0.0	0.0	100.0		3/8" AVENZA	3/8" AVENZA	3/8" MEZCLADO
No. 4	4.750	263.6	9.0	96.4	3.6	139.7	4.7	99.1	0.9	482	20.3	20.3	79.7	0.9	596.8	26.7	26.7	73.3		46.95	35.51	66.36
No. 10	2.000	72.5	2.3	98.7	1.3	0.8	0.0	99.1	0.9	497.1	20.9	41.2	58.8	526.6	23.6	50.2	49.8		3/8" PLANTA	3/8" PLANTA	ACOPIO 3/4"	
No. 40	0.425	20.7	0.7	99.3	0.7	2.4	0.1	99.2	0.8	793.7	33.4	74.6	25.4	633.8	28.4	78.6	21.4			35.51	7.58	
No. 80	0.180	10.4	0.3	99.6	0.4	2.8	0.1	99.3	0.7	282.4	11.9	86.4	13.6	223.4	10.0	88.6	11.4					
No. 200	0.075	9.1	0.3	99.9	0.1	4.7	0.2	99.5	0.5	131.2	5.5	92.0	8.0	100.4	4.5	93.1	6.9			ACOPIO 3/4"	ACOPIO 1"	
PASA No 200	2.2	0.1	100.0	0.0	16.3	0.5	100.0	0.0	191.4	8.0	100.0	0.0	154.7	6.9	100.0	0.0				23.68	20.86	

MUESTRAS	HUMEDAD		PESOS		HUMEDAD		PESOS		HUMEDAD		PESOS		HUMEDAD		PESOS	
	P. INICIAL	1000.0	P. H. INICIAL	3193.9	P. INICIAL	1500.0	P. H. INICIAL	3063.4	P. INICIAL	1000.0	P. H. INICIAL	2432.75	P. INICIAL	1000.0	P. H. INICIAL	2321.3
	P. FINAL	990.2	P. S. INICIAL	3162.6	P. FINAL	1468.2	P. S. INICIAL	2998.5	P. FINAL	977.4	P. S. INICIAL	2377.8	P. FINAL	962.7	P. S. INICIAL	2234.7
	% H	1.0%	P. S. FINAL	3160.4	% H	2.1%	P. S. FINAL	2992.2	% H	2.3%	P. S. FINAL	2366.4	% H	3.7%	P. S. FINAL	2080


FÓRMULA DE TRABAJO

TAMIZ	ESPECIFICACIÓN TABLA 450.5 MDC-10		GRADACIÓN ORIGINAL		% PASA		% A UTILIZAR EN PESO		MATERIAL COMBINADO	FÓRMULA DE TRABAJO	
							3/4" COINORRAS	3/8" AVENZA			
PULGADAS	mm	LIM SUP	LIM INF				50%	50%		SUPERIOR	INFERIOR
1"	25.00	100	100	100.0	100.0	100.0	50.0	50.0	100.0	100	100.0
3/4"	19.00	100	100	100.0	100.0	100.0	50.0	50.0	100.0	100	100.0
1/2"	12.50	100	100	100.0	100.0	100.0	50.0	50.0	100.0	100	100.0
3/8"	9.500	100	100	100.0	100.0	100.0	50.0	50.0	100.0	100	100.0
No. 4	4.750	67	65	79.7	73.3	39.9	36.7	76.5	81.5	71.5	
No. 10	2.000	61	43	58.8	49.8	29.4	24.9	54.3	59.3	49.3	
No. 40	0.425	29	16	25.4	21.4	12.7	10.7	23.4	28.4	18.4	
No. 80	0.180	19	9	13.6	11.4	6.8	5.7	12.5	14.7	9.0	
No. 200	0.075	10	5	8.0	6.9	4.0	3.5	7.5	9.2	5.0	

TAMIZ	ESPECIFICACIÓN TABLA 450.5 MDC-19		GRADACIÓN ORIGINAL		% PASA		% A UTILIZAR EN PESO		MATERIAL COMBINADO	FÓRMULA DE TRABAJO	
							3/4" COINORRAS	3/8" AVENZA			
PULGADAS	mm	LIM SUP	LIM INF				25%	37.5%	37.5%	SUPERIOR	INFERIOR
1"	25.00	100	100	100.0	100.0	100.0	25.0	37.5	37.5	100.0	100
3/4"	19.00	100	100	100.0	100.0	100.0	25.0	37.5	37.5	100.0	100
1/2"	12.50	95	80	36.9	100.0	100.0	9.2	37.5	84.2	88.2	80.2
3/8"	9.500	88	70	5.6	100.0	100.0	1.4	37.5	76.4	80.4	72.4
No. 4	4.750	65	49	0.9	79.7	73.3	0.2	29.9	57.6	63.6	53.6
No. 10	2.000	45	29	0.9	58.8	49.8	0.2	22.1	18.7	40.9	36.9
No. 40	0.425	25	14	0.8	25.4	21.4	0.2	9.5	8.0	17.8	14.5
No. 80	0.180	17	8	0.7	13.6	11.4	0.2	5.1	4.3	9.5	8.3
No. 200	0.075	8	4	0.5	8.0	6.9	0.1	3.0	2.6	5.8	4.2

TAMIZ	ESPECIFICACIÓN TABLA 450.5 MDC-25		GRADACIÓN ORIGINAL		% PASA		% A UTILIZAR EN PESO		MATERIAL COMBINADO	FÓRMULA DE TRABAJO	
							1" COINORRAS	3/4" AVENZA			
PULGADAS	mm	LIM SUP	LIM INF				22.0%	8.0%		SUPERIOR	INFERIOR
1"	25.00	100	100	100.0	100.0	100.0	22.0	8.0	70.0	100.0	100
3/4"	19.00	95	80	70.7	100.0	100.0	15.6	8.0	70.0	93.6	80
1/2"	12.50	85	67	25.5	36.9	100.0	5.6	3.0	70.0	78.6	67
3/8"	9.500	77	60	12.6	5.6	100.0	2.8	0.4	70.0	73.2	60
No. 4	4.750	59	43	3.6	0.9	76.5	0.8	0.1	53.6	54.4	43
No. 10	2.000	45	29	1.3	0.9	54.3	0.3	0.1	38.0	38.4	29
No. 40	0.425	25	14	0.7	0.8	23.4	0.2	0.1	16.4	16.6	14
No. 80	0.180	17	8	0.4	0.7	12.5	0.1	0.1	8.7	8.9	8
No. 200	0.075	8	4	0.1	0.5	7.5	0.0	0.0	5.2	5.3	4


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