

Surfaces exposées par la fragmentation versus granoclassement

Fragmentation d'un bloc de 1 m³

Particules nb	Surface m ²	Diametre mm
1	1	1000
8	2	500
64	4	250
512	8	125
4096	16	62.500
32768	32	31.250
262144	64	15.625
2097152	128	7.81250
16777216	256	3.90625
1.34E+08	512	1.95313
1.07E+09	1024	0.97656
8.59E+09	2048	0.48828
6.87E+10	4096	0.24414
5.5E+11	8192	0.12207
4.4E+12	16384	0.06104
3.52E+13	32768	0.03052
2.81E+14	65536	0.01526
2.25E+15	131072	0.00763
1.8E+16	262144	0.00381

GRANOCLASSEMENT

	mm	de mm	à mm
boulder	>256		
cobble	64 - 256	64.0	256.0
pebble	4 - 64	4.0	64.0
granule	2 - 4	2.0	4.0
very coarse sand	1 - 2	1.0	2.0
coarse sand	1/2 - 1.0	0.50	1.00
medium sand	1/4 - 1/2	0.25	0.50
fine sand	1/8 - 1/4	0.125	0.250
very fine sand	1/16 - 1/8	0.063	0.125
silt	1/256 - 1/16	0.004	0.063
clay	<1/256		

CONVERSION

Passing	mm	Mesh
coarse sand	1	16
medium sand	0.500	32
	0.300	48
fine sand	0.250	60
	0.150	100
very fine sand	0.125	115
silt	0.075	200

Granoclassement des résidus (EF 5.18)

Mesh	%	Passing
+ 48	2.6%	medium to coarse
65 - 48	12.4%	fine sand
100 - 65	20.0%	"
200 - 100	25.8%	very fine
<200	39.2%	silt

SOURCE: Jean DEMERS