POLITECHNIKA WARSZAWSKA WYDZIAŁ INŻYNIERII LĄDOWEJ **ZAKŁAD INŻYNIERII MATERIAŁÓW BUDOWLANYCH**		
LABORATORY EXERCISE REPORT **BUILDING MATERIALS 2 - LABORATORY**		
Aggregates for concrete - basic properties		
Author:	Group:	Semester 3
Tutor:	Stationary studies	Academic Year …….

1. TASK AIM

The aim of the task was to ……..…

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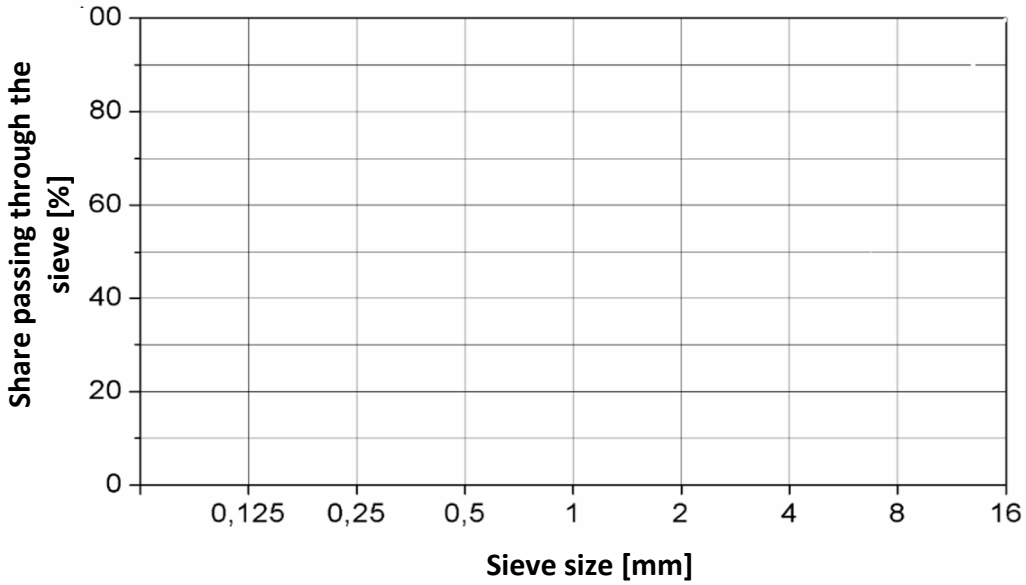
2. TEST RESULTS

2.1. AGGREGATE GRADING FOR ORDINARY CONCRETE ACCORDING TO STANDARD PN-EN 933-1

2.1.1. CALCULATIONS

Method	**Dry sieving**		
Type of aggregate			
Mass M_1 [g]			
Sieve mesh size [mm]	**Mass of material remaining on the sieve [g] R_i**	**Percentage of material remaining on the sieve [%] $R_i / M_1 \cdot 100$**	**Sum of masses passing through the sieve [%] $100 - \Sigma(R_i/M_1 \cdot 100)$**
31,5	$R_1 =$	$A_1 =$	$100 - A_1 =$
16	$R_2 =$	$A_2 =$	$100 - (A_2 + A_1) =$
8	$R_3 =$	$A_3 =$	$100 - (A_3 + A_2 + A_1) =$
4	$R_4 =$	$A_4 =$	
2	$R_5 =$	$A_5 =$	
1	$R_6 =$	$A_6 =$	
0,5	$R_7 =$	$A_7 =$	
0,25	$R_8 =$	$A_8 =$	
0,125	$R_9 =$	$A_9 =$	
Material on the bottom	$P =$	$A_{10} =$	
Oversized grains [%]			
Undersized grains [%]			

2.1.2. GRADING CURVE (CUMULATIVE PLOT)



2.2. BULK DENSITY

	Material 1		Material 2		Material 3	
Aggregate type						
Aggregate fraction [mm]						
Container volume V [dm^3]						
Container mass m_1 [kg]						
Specimen and container mass m_2 [kg]						
Bulk density in the loose state ρ_{nl} [kg/dm^3]						
Mean value [kg/dm^3]						

3. CONCLUSIONS

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4. NOTES & CALCULATIONS

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