Terjola Region Village Godogani. Quarry "Godogani Limestone"

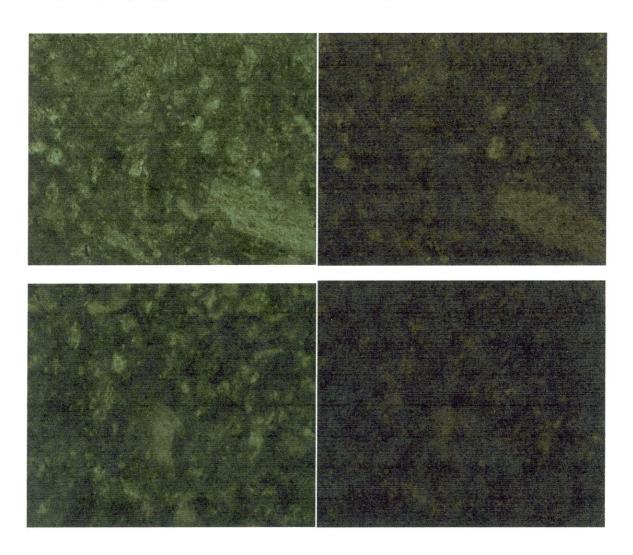
		Soil Description	11	Limestone
	f Rupture	Saturated, R ^W 83.5	10	5.3
•	Modulus of Rupture	Dry condition, R 835	6	5.7
•	e Strength	Saturated, a^W 83 5	8	28
	Compressive Strength	Dry condition, o 835	7	35
		Bulk Density, p g/sm³	9	2.41
		Bulk Specific Gravity, BSG	5	2.14
		Water Absorption, WAW %	4	8.3
		m 'didəQ	3	0.0
		ou əldwoş	2	1
		ōNōN	1	1

Petrographic Description

Sample № 1 Limestone (mixed with clay)

Macroscopically the rock is white, fine grained; it has an active reaction on hydrochloric acid.

In microscope the rock represents limestone, fine grained. The whole background is non-transparent, mixed with clayey material. Numerous finest grains of carbonate are observed on its background, only bigger size sheets of carbonate are rarely observed.





DETERMINATION OF THE DENSITY (Linear Measurement Method)

Job	ref.				Terjola	Region Ville	age Godog	ani. Quarr	y "Godogan		?" 	
TEST METHOD: BS 1377 : Part 2 : 1990 : 7.2/Prrocedure 3.				Prepar Meth								
9.	Sample no.	Borehole no.	Depth, m	Shape of specimens	Specime	ns dimensio	height www	Area, A ₀ mm²	Volume, V mm ³	Mass of specimen, m g	Density of specimen, ρ g/sm³	Note
No.	2	3	4	5	6	7	8	9	10	11	12	13
1	2 1 D ¹	1	0.0	Cube	50.0	50.0	50.0	2500	125000	303.8	2.43	as received
2	1 D ²	1	0.0	Cube	50.0	50.0	50.0	2500	125000	303.6	2.43	as received
3	1 D ³	1	0.0	Cube	50.0	50.0	50.0	2500	125000	303.0	2.42	as received
4	1 D ⁴	1	0.0	Cube	50.0	50.0	50.0	2500	125000	298.2	2.39	as received
5	1 D ⁵	1	0.0	Cube	47.0	45.0	45.0	2115	95175	226.5	2.38	as received
6												
7								,				
8												
9					***							
10												
11					-		-					
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Modulus of Rupt	ure of Dime	nsion St	one					
Location:				Job ref.	Tariola Pa	gion Village G	odogani	
Quarry "Godogani Limestone"				Job rej.	rerjola neg	gion village d	ouogum	
Soil Location:				Borehole no				
Limestone			Sample no.	1 D				
		V		Depth, m				
Test nMethod:		ASTM C 9	9-87(2006)	Date	12/12/201	4		
	Sį	pecimen init	ially details					
Specimens no.		1 D¹	1 D²					
Specimens shapes		Cube	Cube					
	width, b	100.0	100.0					
Specimens dimensions, mm:	length, a	200.0	200.0					
	thickness, d	57.0	55.0					
	Co	ompression	Test Results	5		······································		
Test condition		Dry Condition						
Length of span, l mm		177.9						
Breaking load, W (N)		6500	6800					
Modulus of Rupture, R = 3W1,	/2bd² (MPa)	5.3	6.0					
Average of Modulus of Rupture	, R (MPa)			5.7				
	Photo	of the spec	imens after	test			•	
Specimen no. 10¹	Specimen no. 102		Salanta Fall dest		2			
							,	
		Оре	rator	Check	red	Appr	oved	

Kokolashvili



Modulus of Rupture of Dimension Stone

Location:			Job ref.	Terjola Region Village G	gion Village Godogani				
Quarry "Godogani Limestone"			Barahala na		2				
Soil Location:			Borehole no.	- 114/					
Limestone			Sample no.	1 W					
			Depth, m	40/40/004					
Test nMethod:		ASTM C 99-87(2006)	Date	12/12/2014					
	S	pecimen initially details	5						
Specimens no.		1 W1							
Specimens shapes	X	Cube							
	width, b	100.0							
Specimens dimensions, mm:	length, a	200.0							
· ·	thickness, d	57.0							
		Compression Test Results	s						
Test condition			Wet Conditio	n					
Length of span, l mm		177.9							
Breaking load, W (N)		6400							
Modulus of Rupture, $R = 3Wl/$	'2bd ² (MPa)	5.3							
Average of Modulus of Rupture		5.3							
	Phot	o of the specimens after	<u>r test</u>						
y was to be	Mento.								
S Fegural test			4						
			4						
			· ·						
sime									
Specimen no.									
			H-1						
			N						
			1						
					F				
	7.								
		Operator	Check	ed Apr	proved				
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Determine Level of Water Absorption and Bulk Specific Gravity

LOCATION:		Job ref.		Terjola Region Village Godogani, "Godogani Limestone"					
Village Godogani			Parahala na						
SOIL DESCRIPTION:			Borehole no). ————————————————————————————————————					
Limestone			Sample no.		1				
			Depth, m						
TEST METHOD:	ASTM C 97-	·02	Date		12/12/2014				
Specimens no.		11	1 ²	1 ³	14	15			
Specimens shapes:		cube	cube	cube	cube	cube			
	width	48.0	47.0	47.0	46.0	47.0			
Specimens dimensions, mm:	length	48.0	46.0	48.0	48.0	48.0			
	height	47.0	47.0	46.0	46.0	47.0			
Surface area of specimens,	5 mm²	13632	13066	13252	13064	13442			
Volume of specimens, V mm ³		108288	101614	103776	101568	106032			
Ratio of volume to surface area, K=V/S		7.9	7.8	7.8	7.8	7.9			
	Weight o	f the dryed *	specimen, (A	A) g					
12/12/2014 0:00		224.2	211.5	210.7	213.5	217.6			
12/13/2014 0:00		207.3	209.1	204.4	207.9	211.9			
	Weight of the soaked	** and surfac	e-dry specim	en in air, (E	3) g				
12/13/2014 0:50		207.3	209.1	204.4	207.9	211.9	,		
12/15/2014 0:50		224.9	226.3	221.3	224.5	229.4			
Percentage water absorption by weight, % WAW=(B-A)/A*10		8.49	8.23	8.27	7.98	8.26	•		
Mean water absorption of sam	ole, %		8.25						
	Weight of the	soaked speci	men in water	, (C) g			***************************************		
12/15/2014 0:50		128.0	128.1	126.0	128.0	129.0			
Bulk Specific Gravity, BSG=A/(B-C)		2.14	2.13	2.14	2.15	2.11			
Mean Bulk Specific Gravity			di ancesa de constante de const	2.1	4	*			
Note: * - Dryed at a temperature of 60±2°C; ** - Temperature of water 22±2°C.			•				ved ishvili		

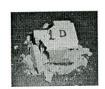


Compressive Strength of Dimention Stone

Location: Quarry "Godogani Limestone"		Job ref. Terjola Region Village Godogani								
Specimen lithologic description:	Specimen lithologic description:			Borehole no						
Limestone	Sample no:	Sample no: 1 D								
	Depth, m									
	Date of samp	oling								
	Date of testi	ng	12.12.2014							
Test method ASTM C	Prepation procedure in accordance with ASTM D									
Specimen initially details	1	2	3	4	5					
Specimens no.	1 D¹	1 D²	1 D³	1 D⁴	1 D ⁵					
Specimens shapes:		Cube								
Moisture Condition	oven dry at 105 ℃									
	width	50.0	50.0	50.0	50.0	47.0				
Specimens dimensions, mm:	length	50.0	50.0	50.0	50.0	45.0				
	height	50.0	50.0	50.0	50.0	45.0				
Area, A_0 (mm ²)		2500	2500	2500	2500	2115				
Volume, V (mm³)		125000.0 ,	125000.0	125000.0	125000.0	95175.0				
Scale Ratio, k		1.0	1.0	1.0	1.0	1.0				
Moisture Content, % (from trimming)		-	-	-	-	-				
Compression Test Results					·					
Total Load on the Specimen at Failure, $ oldsymbol{W} $ (N)		78100	87700	102100	79300	76800				
Compressive Strength of the Specimen, σ (MPa) ($\sigma = W/A$)		31	35	41	32	36				
Average of Compressive Strength of the Specimens, σ_{av} (MPa)		35								

Photo of the specimen after test







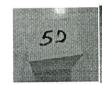














Operator	Checked	Approved		
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Compressive Strength of Dimention Stone

Location: Quarry "Godogani Limestone"		Job ref. Terjola Region Village Godogani						
Specimen lithologic description:	Borehole no.	Borehole no.						
Limestone	Sample no:		1 W					
	Depth, m	114.10.00000000000000000000000000000000						
	Date of sam	pling		***************************************				
	Date of testi	ng	12.12.2014					
Test method ASTN	Prepation proc	edure in acco	rdance with	ASTM I	D 4543			
Specimen initially details		1	2	3	4	5		
Specimens no.		1 W1	1 W ²	1 W³	1 W ⁴	1 W ⁵		
Specimens shapes:		Cube						
Moisture Condition	saturated							
	width	57.0	49.0	49.0	48.0	48.0		
Specimens dimensions, mm:	length	53.0	48.0	49.0	47.0	48.0		
	height	53.0	46.0	48.0	48.0	48.0		
Area, \mathbf{A}_0 (mm ²)		3021	2352	2401	2256	2304		
Volume, V (mm ³)	W (N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	160113	108192	115248	108288	110592		
Scale Ratio, k		0.9	0.9	1.0	1.0	1.0		
Moisture Content, % (from trimming)		-	-	-	-	-		
Compression Test Results					T-100-100-100-100-100-100-100-100-100-10	1		
Total Load on the Specimen at Failure,	W (N)	110800	99400	41200	53400	52000		
Compressive Strength of the Specimen, σ (MPa) ($\sigma = W/A$)		37	42	17	24	23		
Average of Compressive Strength of the Specimens, σ_{av} (MPa)		28						

Photo of the specimen after test





















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Operator	Checked	Approved
Kokolashvili	Khatiashvili	Natsvlishvili