TESTING LABORATORY
"TEST CERTIFICATION CENTER "PIVDENTEST" LLC
Location: 49054, Dnipro, Kalinina ave, 50
phone/fax (056) 370-12-27

Accredited by the National Accreditation Agency of Ukraine
for compliance with ISO / IEC 17025: 2006
Certificate number 2H485 on 25.10.2013 y.
valid until 24.10.2018 y.

2H485
ДСТУ ISO/IEC 17025

APPROVED
Head of the testing laboratory LLC
"TCC "PIVDENTEST"
_____ O. Pikush
"19" February 2018 y.

TEST REPORT

«19» February 2018 **№ L091/02-18**

Testing laboratory LLC "Testing Certification Center "Pivdentest" tested:

Flat and profiled sheets with a coating of stone for roofing QUEENTILE

HS Code —

(name of the product, HS code)

The applicant of tests: *LLC CIG MEGA CITY*

61020, L. Maloy ave 93, Kharkiv, Ukraine

(name and address)

Manufacturer: *LLC CIG MEGA CITY*

61020, L. Maloy ave 93, Kharkiv, Ukraine

Regulations manufacturer, designation and title: —

1. CHARACTERISTIC OF PRODUCT SAMPLES

1.1. Sample (s) is (are) received, tested on availability, identified and registered by testing laboratory "Test-Certification Center" Pìvdentest "

10.02.2018 y., registration number 1-3

2. CHARACTERISTIC OF TESTS

2.1. Tests were carried out in the period: *from 13 till 19 february 2018 y.*

2.2. Used test method: according to item 3.2 of the Test report (column 2)

2.3. Test of the sample (s) was carried out according to:

• *EN 14783:2013 “Fully supported metal sheet and strip for roofing, external cladding and internal lining - Product specification and requirements”, it. 4.3, 4.4, 4.6, 4.8.*

(Regulatory requirements)

2.5. Test procedures, including tools, conditions and methods of measuring, accuracy evaluation (correctness and precision) of methods and measurement results, established by requirement documents on methodology and measurement.

2.6. Partially tests were carried out in contracting testing laboratory: *not carried out*

(types of tests, test laboratory name, address, registration number)

3. CHARACTERISTIC OF THE TEST CONDITIONS

3.1. General conditions of test according to the test methods.

3.2. Indicators, methods and the place where the tests were carried out:

Product item (characteristics)	**Method of testing (measurements) According to the requirement document**	**Test room, test area, test section and others**
1	**2**	**3**
EN 14783:2013		
Water permeability, it.4.3	it.4.3	Territory of LLC "TCC "PIVDENTEST
Dimensional change, it.4.4	it.4.4	
Vapour and air permeability, it.4.6	it.4.6	
Durability, it.4.8	it.4.8	

3.3. Test conditions:

Testing room, area, etc.	**Temperature, ^{o}C**	**Relative humidity, %**	**Atmospheric pressure, kPa**	**Other parameters according to testing methods**
Territory of LLC "TCC "PIVDENTEST	—	—	—	—
	23,2 – 22,4	33,1 – 50,2	102 – 101,8	—

4. MEASURING EQUIPMENT (ME) AND TEST EQUIPMENT (TE)

Denomination (test mode)	Name, type	Metrological characteristics	identification № or factory №
Temperature and relative humidity	Thermohygrometer EVM-183	Humidity .: 1.0% - 99.9% measurement accuracy: ± 2,5%	090202396
Atmospheric pressure	Aneroid barometer БАММ-1	(80 ... 160) kPa cl. 1.5	73
Visual inspection	Package for visual inspection	- welder's gauge УШС3, SN 160; - magnifying glass ЛИ-3-10; - trammel ШЦ I-125-0,1, SN 80303851; - line – 300; - fillet gage РШ-3; - test leads , kit №4, 2 – 10 units.; - test alidade УШ-2-100, SN 195; - fillet gageРШ-1	160

5. TEST RESULTS

Denomination (test mode)	item number according to ND	Regulation value	The actual value	ND for test methods
		EN 14783:2013		
Water permeability	4.3	As long as the products covered by this European Standard have no holes (as defects), they are water impermeable. Where required, the absence of holes shall be checked by visual inspection of the finished product.	The products have no holes (as defects), they are water impermeable. Pass	4.3
Dimensional change	4.4	The thermal expansion shall be taken into account in the change of dimensions of the product, where this change may have an effect on the performance of the product, by stating the appropriate thermal expansion coefficient. In the absence of experimental data, the following thermal expansion coefficient shall be used: - aluminium: $24x10^{-6}$ K^{-1}, -copper: $16,8x10^{-6}$ K^{-1}, -lead: $29,3x10^{-6}K^{-1}$, - stainless steel: $10,0x10^{-6}$ K^{-1} to $17,0x10^{-6}$ K^{-1}, depending on the grade, according to EN 10088-1, -steel: $12x10^{-6}$ K^{-1}, - zinc: $22x10^{-6}$ K^{-1}, unless the manufacturer demonstrates by appropriate means that more accurate values are applicable.	thermal expansion coefficient: - aluminium: 24x10-6 K-1, -steel: 12x10-6 K-1, - zinc: 22x10-6 K-1. Pass	4.4

Denomination (test mode)	item number according to ND	Regulation value	The actual value	ND for test methods
Vapour and air permeability	4.6	As long as the products covered by this European Standard have no holes (as defects), they are air and vapour impermeable. Where required, the absence of holes shall be checked by visual inspection of the finished product.	The products have no holes (as defects), they are air and vapour impermeable. Pass	4.6
Durability	4.8	The manufacturer shall state the type, thickness and grade of metal and, if appropriate, type and thickness (or mass) and/or category of any coating(s) to enable users to select products which may be expected to provide the required durability of the product having regard to the expected environment and/or exposure conditions and feasibility of maintenance. Where this is not appropriate, the durability of the product shall be determined in accordance with the technical specifications valid in the country of use.	The manufacturer stated the type, thickness and grade of metal and type and thickness (or mass) and category of any coatings. Compliance with appropriate national technical specification.	4.8

6. Description, status and identification of the product that has been tested: —

7. Excursion, additions, exceptions: To the protocol, photos of the tests are attached

8. Individual opinions, views and interpretation: —

Debugging and testing engineer: _____ *Khustochko Anton*