


**DECLARATION OF PERFORMANCE**

No. G/PUR-03/2016

**Product's description:**
**Self-supporting double skin metal faced insulating panels  
with PUR core**
**Unique identification code of the product-type:**

for product group Gorlicka D:	for product group Gorlicka S:	for product group Gorlicka CH:	for product group Gorlicka U:
GORLICKA D40	GORLICKA S40	GORLICKA CH100	GORLICKA U60
GORLICKA D60	GORLICKA S60	GORLICKA CH120	GORLICKA U80
GORLICKA D80	GORLICKA S80	GORLICKA CH160	GORLICKA U100
GORLICKA D100	GORLICKA S100	GORLICKA CH200	GORLICKA U120
GORLICKA D120			
GORLICKA D160			

**Harmonised standard:** PN-EN 14509:2013 (EN 14509:2013)

**System/s of AVCP:** 3

**Notified bodies:** Instytut Techniki Budowlanej, ul. Filtrowa 1, 00-611 Warszawa (Nr. 1488)  
 FIRES, s.r.o, Osloboditeľov 282, 05935 Batizovce (Nr. 1396)

**Intended use/s:** Annex 1-4 (Exterior and interior walls, ceilings, roof coverings)

**Declared performances:**

for product group Gorlicka D:	for product group Gorlicka S:	for product group Gorlicka CH:	for product group Gorlicka U:
Annex nr 1	Annex nr 2	Annex nr 3	Annex nr 4

**Manufacturer:/Place of manufacture:** GÓR-STAL Sp. z o.o., ul. Przemysłowa 11, 38-300 Gorlice, POLAND

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 (and with Regulation (EU) No 574/2014), under the sole responsibility of the manufacturer identified above.

**"GÓR-STAL" Sp. z o.o.**  
 38-300 Gorlice, ul. Przemysłowa 11  
 tel. 018 353 98 00  
 REGON 852712117 NIP 738-19-45-154

Gorlice, 2016-11-03

place and date of issue

**"GÓR-STAL" Sp. z o.o.**  
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 tel. 018 353 98 00  
 REGON 852712117 NIP 738-19-45-154  
**DYREKTOR PRODUKCJI**

**Piotr Grzywa**

signed for and on behalf of the manufacturer by

P-10.1.Z5.G. ENGLISH

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 Kapitał Zakładowy: 5 000 000 zł  
 NIP: 738-19-45-154  
 REGON: 852712117

 Adres Fabryki Płyt Warstwowych w Gorlicach  
 ul. Przemysłowa 11  
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 Adres Fabryki Paneli Termoizolacyjnych w Bochni  
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**Annex 1 to DECLARATION OF PERFORMANCE  
DATASHEETS**



Declaration no: G/PUR-03/2016, date: 03.11.2016

<b>Produkt group</b>	<b>GORLICKA D</b>
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ENGLISH

**Description of product:**

Intended uses		Roofs
Type of core		Rigid <b>PUR</b> foam core with density 40 kg/m <sup>3</sup>
Facing (outer/inner site)	Facing type	Bilateral galvanized steel faces
	Thickness	0,4-0,7 mm
	Coating	HDX, HDP, HPS, PVCF, PVDF, SP, PUR
Facing profile	Outer	T(trapezoidal 40mm)
	Inner	L(linear), G(smooth)
Modular width		1000 mm
Panel's designation		Panel Gorlicka D   Module   Profil. outer/inner

**Declared performance/s:** (classification acc. PN-EN 14509:2013):

Unique identification code of the product-type /Name		Gorlicka D40	Gorlicka D60	Gorlicka D80	Gorlicka D100	Gorlicka D120	Gorlicka D160	-				
parameters		value of parameters						method				
Thickness		<b>40/80 mm</b>	<b>60/100 mm</b>	<b>80/120 mm</b>	<b>100/140 mm</b>	<b>120/160 mm</b>	<b>160/200 mm</b>	PN-EN 14509				
Dimensional tolerances		„Pass” (Thickness: ±2mm for ≤100mm and 2% for ≥100mm)						PN-EN 14509				
Thermal conductivity, λ <sub>D</sub>		W/m*K		0,022				PN-EN ISO 10456				
Thermal transmittance, U		W/m <sup>2</sup> *K		0,49	0,34	0,26	0,21	0,18	0,13	PN-EN 14509		
Compressive strength (core)		kPa		120				PN-EN 826				
Tensile strength		kPa		100				PN-EN 1607				
Shear strength		kPa		130	120	100	100	100	80	PN-EN 14509		
Shear modulus (core)		kPa		3200	3200	3000	2900	2800	2400			
Density		kg/m <sup>3</sup>		40 ± 3				PN-EN 1602				
Bending resistance in the span	(+)	ambient temperature	kNm/m		2,50	4,50	4,70	5,60	7,40	8,00	PN-EN 14509	
Bending resistance in the span	(-)		kNm/m		3,30	3,90	4,50	4,80	5,60	5,20		
Wrinkling strength in the span (internal face)	ssa nie	MPa		115	115	95	95	95	75			
Bending resist. at internal support	(+)	kNm/m		2,90	2,60	3,30	3,80	4,60	6,10			
Bending resist. at internal support	(-)	kNm/m		1,80	2,90	4,70	5,80	6,60	7,20			
Wrinkling strength at int. support (internal face)		MPa		105	75	75	75	80	80			
Bending resistance in the span	(+)	elevated temperature	kNm/m		2,40	4,30	4,50	5,40	7,20	7,80		PN-EN 14509
Bending resistance in the span	(-)		kNm/m		3,20	3,70	4,40	4,60	5,40	5,10		
Bending resist. at internal support	(+)		kNm/m		2,80	2,50	3,20	3,70	4,50	5,90		
Bending resist. at internal support	(-)		kNm/m		1,70	2,80	4,60	5,60	6,40	7,00		
Creep coefficient			for t=2.000h:		0,67 (for 0,5/0,5); 0,87 (for 0,5/0,4); 1,05 (for 0,4/0,4)				0,85	PN-EN 14509		
		for t=100.000h:		1,18 (for 0,5/0,5); 1,49 (for 0,5/0,4); 1,89 (for 0,4/0,4)				1,33				
Reduced long term shear strength (40%)	kPa	52	48	40	40	40	40	34	PN-EN 14509			
Resistance to point loads		1,2 kN						PN-EN 14509				
Resistance to access loads		NPD						PN-EN 14509				
Reaction to fire (all applications)		B-s1,d0						PN-EN 13501-1				
Fire resistance		NPD		RE30 / REI15 (for 0,5/0,5) <i>Details in the classification</i>				PN-EN 13501-2				
External fire performance		B <sub>roof</sub> (t1,t2,t3)						PN-EN 13501-5				
Water permeability		Class A						PN-EN 12865				
Water vapour permeability		„Impermeable”						PN-EN 14509				
Air permeability	(+)	0,7 [m <sup>3</sup> /m <sup>2</sup> *h] for Δp=50 [kPa]; (C=0,0046 m <sup>3</sup> /(hPa <sup>n</sup> ), n=1,2421)						PN-EN 12114				
	(-)	0,2 [m <sup>3</sup> /m <sup>2</sup> *h] for Δp=50 [kPa]; (C=0,0033 m <sup>3</sup> /(hPa <sup>n</sup> ), n=1,0658)										
Airborne sound insulation		24(-,-,4) dB						PN-EN ISO 10140-3				
Sound absorption		0,15 dB						PN-EN ISO 354				
Facing properties		yield strength ≥ 220 N/mm <sup>2</sup>						PN-EN 10346				
Durability – all colours		„Pass”						PN-EN 14509				
Dengerous substances		NPD						PN-EN 12114				