

Documentation for product:

Self-supporting double skin metal faced insulating panels, with PIR core
GORLICKA GS-PIR

DECLARATION OF PERFORMANCE

No. G/PIR-06/2017

12

Unique identification code of the product-type:

<i>for product group Gorlicka D GS-PIR:</i>	<i>for product group Gorlicka S GS-PIR:</i>	<i>for product group Gorlicka CH GS-PIR:</i>	<i>for product group Gorlicka U GS-PIR:</i>
GORLICKA D40 GS-PIR	GORLICKA S40 GS-PIR	GORLICKA CH100 GS-PIR	GORLICKA U60 GS-PIR
GORLICKA D60 GS-PIR	GORLICKA S60 GS-PIR	GORLICKA CH120 GS-PIR	GORLICKA U80 GS-PIR
GORLICKA D80 GS-PIR	GORLICKA S80 GS-PIR	GORLICKA CH160 GS-PIR	GORLICKA U100 GS-PIR
GORLICKA D100 GS-PIR	GORLICKA S100 GS-PIR	GORLICKA CH200 GS-PIR	GORLICKA U120 GS-PIR
GORLICKA D120 GS-PIR			GORLICKA U140 GS-PIR
GORLICKA D160 GS-PIR			

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

System/s of AVCP: System 3

Notified bodies:

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

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

Declared performances:

<i>for product group Gorlicka D GS-PIR:</i>	<i>for product group Gorlicka S GS-PIR:</i>	<i>for product group Gorlicka CH GS-PIR:</i>	<i>for product group Gorlicka U GS-PIR:</i>
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, 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

DYREKTOR PRODUKCJI
Piotr Grzywa

Gorlice, 01-02-2018

place and date of issue

signed for and on behalf of the manufacturer by

P-10.1.Z5.G, ENGLISH

 GÓR-STAL sp. z o.o. ul. Przemysłowa 11, 38-300 Gorlice
 tel./fax: +48 (18) 353 98 00
 e-mail: info@gor-stal.pl / www.gor-stal.pl

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

 Adres Fabryki Płyt Warstwowych w Gorlicach
 ul. Przemysłowa 11
 38-300 Gorlice

 KRS: 0000166841
 Sąd Rejonowy dla Krakowa Śródmieścia w Krakowie
 XII Wydział Gospodarczy Krajowego Rejestru Sądowego

 Bank Zachodni WBK S.A.
 ul. Rynek 9/11, 50-950 Wrocław
 94 1090 1838 0000 0001 1562 8092

 Adres Fabryki Paneli Termoizolacyjnych w Bochni
 ul. Adolfa Mitera
 32-700 Bochnia

Annex 1 to DECLARATION OF PERFORMANCE



Declaration no: G/PIR-06/2017, date: 01-02-2018

Produkt group / Generic name	GORLICKA D GS-PIR
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ENGLISH

Description of product:

Intended uses		Roofs
Type of core		Rigid PIR foam core with density 40 kg/m ³
Facing (outer/inner site)	Facing type	Bilateral galvanized steel faces
	Steel parameters	Yield strength ≥ 220 N/mm ²
	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/identification		Panel Gorlicka D GS-PIR Module Profil. outer/inner

Declared performance/s:

Unique identification code of the product-type /Name		Gorlicka D40 GS-PIR	Gorlicka D60 GS-PIR	Gorlicka D80 GS-PIR	Gorlicka D100 GS-PIR	Gorlicka D120 GS-PIR	Gorlicka D160 GS-PIR	Classification			
Thickness		40/80 mm	60/100 mm	80/120 mm	100/140 mm	120/160 mm	160/200 mm				
Essential characteristics		Value of parameters						PN-EN 14509:2013 (EN 14509:2013)			
parameters											
Thermal properties											
Thermal conductivity, λ _D		W/m*K		0,022							
Thermal transmittance, U _{d,S}		W/m ² *K		0,49	0,34	0,26	0,21	0,18	0,13		
Mechanical properties											
Compressive strength (core)		MPa		0,12							
Tensile strength		MPa		0,06							
Shear strength		MPa		0,13	0,12	0,10	0,10	0,10	0,80		
Shear modulus (core)		MPa		3,20	3,20	3,00	2,90	2,80	2,40		
Bending resistance in the span		(+)	ambient temperature	kNm/m		2,20	3,50	5,40	5,80	8,20	8,00
Bending resistance in the span		(-)		kNm/m		2,30	2,90	6,80	5,70	6,70	5,20
Bending resist. at internal support		(+)		kNm/m		2,90	3,50	4,70	4,60	5,40	6,10
Bending resist. at internal support		(-)		kNm/m		2,00	3,00	4,40	5,30	6,40	7,20
Creep coefficient		for t=2.000h:		0,67 (for 0,5/0,5); 0,79 (for 0,5/0,4); 0,91 (for 0,4/0,4)					0,69		
		for t=100.000h:		1,09 (for 0,5/0,5); 1,14 (for 0,5/0,4); 1,33 (for 0,4/0,4)					0,83		
Reduced long term shear strength (40%)		MPa		0,052	0,048	0,040	0,040	0,040	0,034		
Resistance to point loads				1,2 kN							
Resistance to access loads				NPD							
Reaction to fire (all applications)				B-s1,d0							
Fire resistance				NPD			REI 30 / RE 120 <i>Details in the classification</i>				
External fire performance				B _{roof}							
Water permeability				Class A							
Water vapour permeability				„Impermeable”							
Air permeability		(+)		C=0,0046 m ³ /(hPa ⁿ), n=1,2421 (0,7 [m ³ /m ² *h] for Δp=50 [kPa])							
		(-)		C=0,0033 m ³ /(hPa ⁿ), n=1,0658 (0,2 [m ³ /m ² *h] for Δp=50 [kPa])							
Airborne sound insulation				24(-1,-3) (for 0,5/0,5 & 0,5/0,4); 24(-2,-4) (for 0,4/0,4); [dB]							
Sound absorption				0,1 dB							
Dimensional tolerances				„Pass” (Thickness: ±2mm for ≤100mm and 2% for ≥100mm)							
Durability – all colours				„Pass”							
Dengerous substances				NPD							

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