

DECLARATION OF PERFORMANCE

No. 40341

Unique identification code of the product-type	PAROC Fire Steel Protect N1
Intended use/es	Thermal insulation for buildings
Manufacturer	Paroc Group, Energiakuja 3, FI-00180 Helsinki
System/s of AVCP	AVCP 1 for Reaction to fire, AVCP 3 for other properties
Harmonised standard	EN 13162:2012+A1:2015
Notified body/ies	No. 0809 – Eurofins Expert Services Ltd

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.

Signed for and on behalf of the manufacturer by:

Helsinki 29.6.2018



Paroc Oy Ab, Building Insulation
Susanna Tykkä-Vedder, Development Manager

Declared Performance/s

PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 1 %	EN 13162:2012 + A1:2015 (EN 1604)
DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION		
Compressive Creep $CC(i_1/i_2/y)\sigma_c X_{ct}$	NPD	EN 13162:2012 + A1:2015 (EN 1606)
DURABILITY OF FIRE AND THERMAL PROPERTIES		
Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation	The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.	
Durability of Thermal Resistance Against Heat, Weathering, Ageing/Degradation	Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.	

Declared Performance/s

PROPERTY	VALUE	ACCORDING TO
REACTION TO FIRE		
Reaction to Fire, Euroclass	A1	EN 13162:2012 + A1:2015 (EN 13501-1)
CONTINUOUS GLOWING COMBUSTION		
Continuous Glowing Combustion	NPD	EN 13162:2012 + A1:2015
THERMAL RESISTANCE		
Thermal Resistance	https://www.paroc.com/~media/Files/Solutions%20and%20Products/thermal-resistance-table-INT.ashx	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (EN 823)
DIRECT AIRBORNE SOUND INSULATION INDEX		
Air Flow Resistivity A_{FR}	NPD	EN 13162:2012 + A1:2015 (EN 29053)
WATER PERMEABILITY		
Water Absorption, Short Term W_S , (W_p)	$\leq 1 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term $W_L(P)$, (W_{lp})	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 12087)
WATER VAPOUR PERMEABILITY		
Water Vapour Transmission MU , μ	1	EN 13162:2012 + A1:2015 (EN 12086)
Water Vapour Resistance Z	NPD	EN 13162:2012+A1:2015
ACOUSTIC ABSORPTION INDEX		
Sound Absorption	NPD	EN 13162:2012 + A1:2015 (EN ISO 354)
IMPACT NOISE TRANSMISSION INDEX (FOR FLOORS)		
Dynamic Stiffness SD	NPD	EN 13162:2012 + A1:2015 (EN 29052-1)
COMPRESSIVE STRENGTH		
Compressive stress at 10 % deformation $CS(10)$, σ_{10}	NPD	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength $CS(Y)$, σ_m	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load $PL(5)$	NPD	EN 13162:2012 + A1:2015 (EN 12340)
TENSILE/FLEXURAL STRENGTH		
Tensile Strength Perpendicular to Faces TR , σ_{mt}	NPD	EN 13162:2012 + A1:2015 (EN 1607)
RELEASE OF DANGEROUS SUBSTANCES TO THE INDOOR ENVIRONMENT		
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015