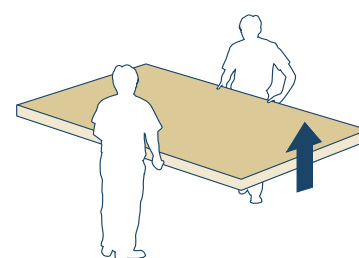


# HARDROCK MAX

TECHNICAL LIST



<b>PRODUCT DESCRIPTION</b>	Dual density boards made from stone wool for thermal insulation	
<b>CODE</b>	MW-EN 13162-T4-DS(70,-)-DS(70,90)-CS(10)70*-TR10-PL(5)800-WS-WL(P)-MU1 *for top layer of the board CS(10)90	
<b>NORM</b>	EN 13162:2012+A1:2015	
<b>CE CERTIFICATE</b>	1023-CPR-1207 P; 1023-CPR-1208 P; 1023-CPR-1203 P; 1415-CPR-3-(C-7/2010)	
<b>APPLICATION</b>	<p>Non-combustible insulation:</p> <ul style="list-style-type: none"> <li>flat roofs directly covered with single- or double-layer roof coatings,</li> <li>recommended for roofs meeting special operation requirements (e.g. either in the case of daily maintenance of devices located on the roof or dedicated to the roofs with high point load from e.g. solars, ventilation ducts to be put directly on the insulation)</li> </ul>	
<b>TECHNICAL PROPERTIES</b>	declared thermal conductivity coefficient	$\lambda_D = 0,040 \text{ W/m}\cdot\text{K}$
	point load behaviour at 5 mm	$PL(5) \geq 800 \text{ N}$
	compressive stress at 10% relative deformation for the board	$CS(10) \geq 70 \text{ kPa}$
	compressive stress at 10% relative deformation for the top layer of the board	$CS(10) \geq 90 \text{ kPa}$
	tensile resistance	$TR \geq 10 \text{ kPa}$
	water absorption, long term	$WL(P) \leq 3 \text{ kg/m}^2$
	water absorption, short term	$WS \leq 1 \text{ kg/m}^2$
	reaction to fire	A1 product
	characteristic load	$1,70 - 1,55 \text{ kN/m}^2$



length	width	thickness	thermal resistance $R_D$	number of boards per pallet	number of $m^2$ per pallet
[mm]	[mm]	[mm]	$[m^2\cdot K/W]$	[pcs]	$[m^2]$
2020	1220	50	1,25	24	59,145
2020	1220	60	1,50	20	49,288
2020	1220	70	1,75	16	39,430
2020	1220	80	2,00	15	36,966
2020	1220	90	2,25	12	29,572
2020	1220	100	2,50	12	29,572
2020	1220	110	2,75	10	24,644
2020	1220	120	3,00	10	24,644
2020	1220	130	3,25	9	22,179
2020	1220	140	3,50	8	19,715
2020	1220	150	3,75	8	19,715
2020	1220	160	4,00	7	17,250
2020	1220	170	4,25	7	17,250
2020	1220	180	4,50	6	14,786
2020	1220	190	4,75	6	14,786
2020	1220	200	5,00	6	14,786

Product on pallets built from stone wool. Pallets dimensions: max 2020×1220×1320 mm.