Xiamen Yumi Imp., & Exp., Co., Ltd. Add:Unit 1304-3, Building 59, Chengyi North Street, Phase III, Xiamen Software Park, Xiamen, China Tel/Fax:+86-592-6095031 E-mail:manager@yumisteel.com

1. Material description of rockwool soundproof panels:

A) Surface sheets description:

The surface sheets of rockwool composite panels could be PPGI steel sheets, PPGL steel sheets, aluminum alloy metal sheets.

Surface sheets	PPGI/ PPGL/ Aluminum sheets/ Al-Mg-Mn alloy metal sheets						
Steel thickness	0.40 - 0.70 mm						
Aluminum							
sheets/ Al-Mg-Mn	0.70 - 1.20 mm						
alloy metal sheets							
Coating type choice	PE/ PVDF/ HDP/ SMP, etc.						

B) Core material description:

Rockwool is A level fireproof core material for sandwich panels,but this kind of material is afraid of water,so no matter it's production, delivery, or installation,we all need to take note for waterproof problem for rockwool material.But adding polyurethane sealing end can improve panel waterproof performance.Our regular thickness for rockwool is 50, 75, 80, 100, 150, 200mm,and density range is 80 - 150 KG/M³.

C) Material warranty:

Our steel sheets cooperating parterners are Bao-steel, Shougang steel, Guanzhou steel, Yieh Phui steel,etc.Rockwool raw material is our branch factory made it.

D)What effects on panel lifetime?

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- 1) Steel brand: Good steel brand could make sure good zinc and color coating, which avoid color fading;
- 2) Need to choose the suitable coating type for your project,accordign to your local climate features;
- 3) Need to do regular inspection and maintaince per 6 months.

E) Product features:

- 1) Good sound insulation and sound absorption;
- 2) Excellent thermal properties;
- 3) A1 level fire-resistant properties;
- 4) Excellent and suitable for outdoor use;
- 5) Easy installation.

F) Material tolerances:

Length:If length ≤3 meters,+/-5mm;

If length >3 meters,+/-10mm.

Width:+/-3mm

Steel sheet thickness:+/-0.02mm

Panel thickness:+-2mm

2. Technical of rockwool soundproof panels:

A) Loading tables:

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Panel	External		Weight Span Type		Span Distance					
thickness	Steel	Steel			1000	1500	2000	2500	3000	
(mm)	(mm)	(mm)	(kg/m2)	(mm)	Max.Distributed Load (kg/m2)				n2)	
50		0.50	14.30	Two Span	693	519	407	329	259	
50	0.50	0.50		Multi Span	705	530	410	329	262	
60	0.50	0.50	50 45 00	Two Span	800	532	415	351	283	
60 0.50	0.50	15.30	Multi Span	811	543	421	351	285		
75	0.50	0.50	0.50 16.80	Two Span	825	544	428	360	293	
75 0.50	0.50	10.80	Multi Span	833	554	434	363	295		
100 0.50	0.50	19.30	Two Span	849	561	436	367	298		
			Multi Span	856	569	442	371	299		
150 0.50	0.50	0.50 0.50	24.30	Two Span	877	578	448	376	304	
	0.50			Multi Span	881	583	453	380	305	

Notes

- . Values have been calculated using the allowable "Stress Design" method, taking self weight, imposed loads (wind load) and temperature ($\Delta t=\pm20^{\circ}C$) into account.
- . If loads are effected as downwards I/200 and I/150, if loads are effected as suction I/150 deflection limits have been used
- . Values have been calculated using the steel quality fγ=240 Mpa(Yield Strength).
- . In Panel weight calculations, Rockwool density is taken as 100 kg/m3.

B) Thermal transmittance coefficient(U value):

Panel thickness	50 mm	60 mm	75 mm	100 mm	150 mm	200 mm
U(W/m²·K)	0.80	0.58	0.66	0.43	0.29	0.20

C)Thermal coefficient "R" value:

Panel thickness	50 mm	60 mm	75 mm	100 mm	150 mm	200 mm
R(m²·K/W)	1.25	1.35	1.52	2.33	3.45	5.00

D)Sound insulation:

Panel thickness	50 mm	60 mm	75 mm	100 mm	150 mm	200 mm
Rw(dB)	31	32	33	34	35	38
Remark:This calculation is based on 100KG/M³ rock wool density.						

3. Special unloading instruction:

A) Choose a flat floor to unload the containers;

B) Hang the containers to the floor with a crane;



C)Use the cleek or wire rope to hookup with the steel frame stand and hookup the other side to forklift, and the other 2 forklifts are arranged in a row, catching the sandwich panel facing the outside.





The other forklifts stay like this direction, and catch the going out panels.



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D)When panels get out the container, then the 2 forklifts work together and send the panels to stack place. Please put wooden pallets or sleepers on the stack place to hold the panels. Please don't place the panels directly on the ground.





