# RockWool- D70 Boards

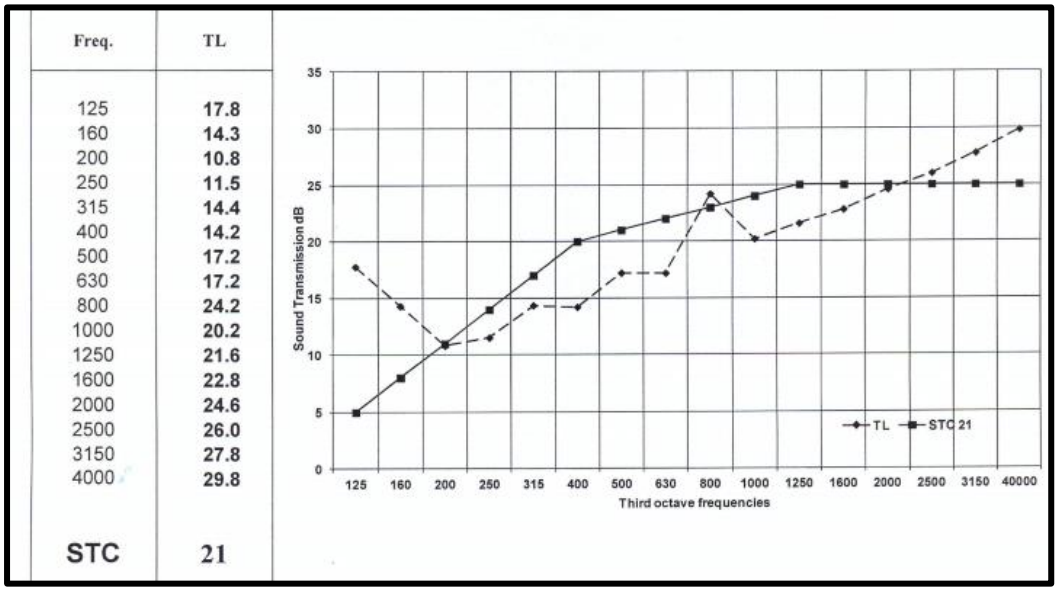
GlassRock Rockwool boards-D70 is manufactured from fine and stable fibres bonded with thermosetting binding resin, they are rot proof and has minimal shot content due to the mineral composition of the product.

| Usage |
|---|
| Partitions/ Ceilings / Facades / Door Insulation/ HVAC |

| Criteria | | Unit | Value | Standard |
|---|---|---|---|---|
| Description | | Rockwool | | |
| Density | | Kg/m$^3$ | 70 | EN 1602:2013 |
| Facing[1] | | Un-Faced/ BGF / BGT / FSK / FSK II / Alu-Foil | | |
| Thickness range[3] | | mm | 40-200 | EN 823:2013 |
| Thermal Conductivity (K)[2] | | W/m.K | 0.035@ 24°C | ASTM C 518 |
| Dimensions[3] | Length | mm | 1200 | |
| | Width | mm | 600 | |
| Max service Temperature | | °C | 750 | ASTM C 411 |
| Reaction To fire | | | A1 | EN 13501-1+A1:2010 |
| Sound Insulation[2] | | STC | 21 | ASTM E413 |
| NRC[2] | | | 1 | ASTM C423 |
| Shot Content | | | < 25% | ASTM C612 |
| Water absorption | | < 1% by weight | | ASTM C1104 |
| Corrosion Effect | | pH 7 or slightly Alkaline | | ASTM C692 |
| Chloride Content | | Comply with Stain less steel Corrosion specification | | ASTM C871 |

28 Road 265, New Maadi, Cairo, Egypt - P.O.Box:120 new Maadi - Postal Code: 11435 Cairo, Egypt
Tel: +202 25192548 - Fax: +202 25192547
www.glassrock.com.eg

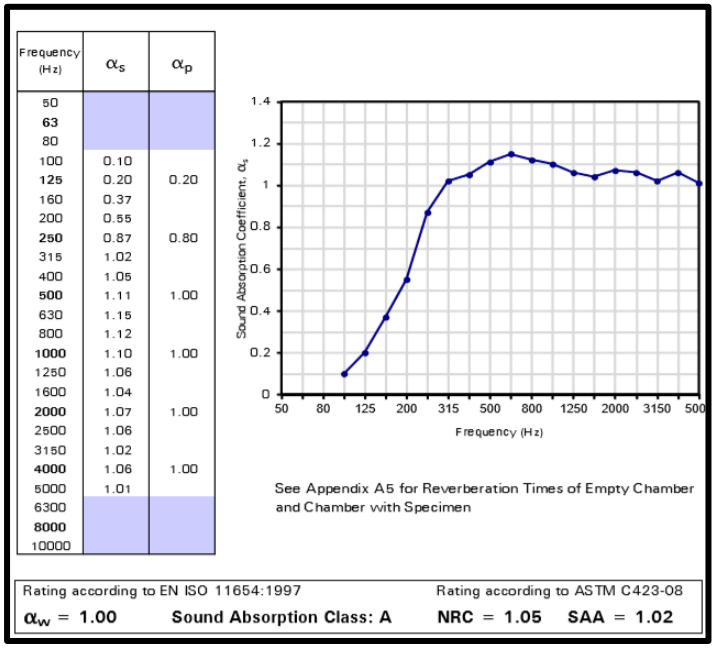
| Thickness | mm | 50 | 75 | 100 |
|---|---|---|---|---|
| R-Value | $m^2K/W$ | 1.43 | 2.14 | 2.86 |
| U-Value | $W/m^2K$ | 0.699 | 0.467 | 0.35 |



| Freq. | TL |
|---|---|
| 125 | 17.8 |
| 160 | 14.3 |
| 200 | 10.8 |
| 250 | 11.5 |
| 315 | 14.4 |
| 400 | 14.2 |
| 500 | 17.2 |
| 630 | 17.2 |
| 800 | 24.2 |
| 1000 | 20.2 |
| 1250 | 21.6 |
| 1600 | 22.8 |
| 2000 | 24.6 |
| 2500 | 26.0 |
| 3150 | 27.8 |
| 4000 | 29.8 |
| STC | 21 |



*Figure 1:STC Test Result: RW_D70_50mm*



| Frequency (Hz) | $\alpha_s$ | $\alpha_p$ |
|---|---|---|
| 50 | | |
| 63 | | |
| 80 | | |
| 100 | 0.10 | |
| 125 | 0.20 | 0.20 |
| 160 | 0.37 | |
| 200 | 0.55 | |
| 250 | 0.87 | 0.80 |
| 315 | 1.02 | |
| 400 | 1.05 | |
| 500 | 1.11 | 1.00 |
| 630 | 1.15 | |
| 800 | 1.12 | |
| 1000 | 1.10 | 1.00 |
| 1250 | 1.06 | |
| 1600 | 1.04 | |
| 2000 | 1.07 | 1.00 |
| 2500 | 1.06 | |
| 3150 | 1.02 | |
| 4000 | 1.06 | 1.00 |
| 5000 | 1.01 | |
| 6300 | | |
| 8000 | | |
| 10000 | | |



See Appendix A5 for Reverberation Times of Empty Chamber and Chamber with Specimen

Rating according to EN ISO 11654:1997 — Rating according to ASTM C423-08

$\alpha_w$ = 1.00 **Sound Absorption Class: A** NRC = 1.05 SAA = 1.02

*Figure 2:NRC Test Result: RW_D70_50mm*

28 Road 265, New Maadi, Cairo, Egypt - P.O.Box:120 new Maadi - Postal Code: 11435 Cairo, Egypt
Tel: +202 25192548 - Fax: +202 25192547
www.glassrock.com.eg

| | |
|---|---|
| **Packaging & Storage** | GlassRock Rockwool boards are supplied in shrink wrapped polyethylene and must be stored in the original packaging, protected from weather and off the ground. It can be dried and used in case of getting wet without any changes to its properties. |
| **Health & Safety** | GlassRock Rockwool boards are odourless, nonhygroscopic, rat proof, does not sustain vermin or encourage fungi growth, mould or bacteria. |
| **Environmental impact** | GlassRock Rockwool boards are environment friendly free from CFCs, HCFCs and any other material with Ozone depletion potential. |

[1]Other facings types are available upon request

[2]This data is obtained for un-faced rockwool material with 70 Kg/m$^3$ & 50 mm thickness.

[3]Other special dimensions can be supplied after confirmation of technical team.



28 Road 265, New Maadi, Cairo, Egypt - P.O.Box:120 new Maadi - Postal Code: 11435 Cairo, Egypt
Tel: +202 25192548 - Fax: +202 25192547
www.glassrock.com.eg