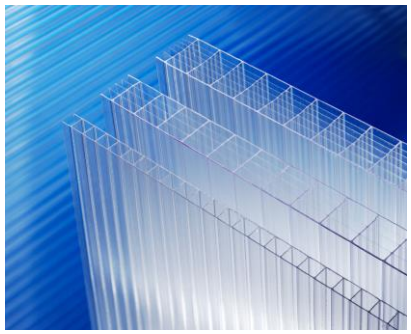
PRODUCT DATA SHEET

marlon st LONGLIFE

# Thermal Insulation



A considerable advantage of Marlon ST Longlife is that it is much more efficient at preventing heat loss than traditional glazing materials of comparable thickness. The U value is used to compare the insulation properties of materials. It measures the amount of heat passing through the material for a unit area for every degree of temperature difference across the material. Therefore the lower the U value the better the material will retain the heat within the building.

| Material | Thickness (mm) | Structure | U value (W/m².K) | RSI value (K.m²/W) |
|---|---|---|---|---|
| Marlon ST | 4 | Twin wall | 3.9 | 0.26 |
| | 6 | Twin wall | 3.7 | 0.27 |
| | 8 | Twin wall | 3.4 | 0.29 |
| | | Fourwall | 2.8 | 0.36 |
| | 10 | Twin wall | 3.2 | 0.31 |
| | | Fourwall | 2.5 | 0.40 |
| | 16 | Triple wall | 2.4 | 0.42 |
| | | M-wall | 2.2 | 0.45 |
| | | V-wall | 2.6 | 0.38 |
| | | 16x32 M-wall | 2.5 | 0.40 |
| | | Five wall | 1.9 | 0.53 |
| | | X-wall | 2.0 | 0.50 |
| | | W-wall | 2.4 | 0.42 |
| | | Seven wall | 1.78 | 0.56 |
| | 17.5 | V-wall | 2.7 | 0.37 |
| | 20 | Triple wall | 2.2 | 0.45 |
| | | Seven X-wall | 1.6 | 0.63 |
| | 25 | Five wall | 1.6 | 0.63 |
| | | Seven X-wall | 1.4 | 0.71 |
| | | Five X-wall | 1.6 | 0.63 |
| | 30 | Twin wall | 2.56 | 0.39 |
| | 32 | XX-wall | 1.4 | 0.71 |
| | | Seven wall | 1.25 | 0.80 |
| | | Nine wall | 1.2 | 0.83 |
| | | Tenwall | 1.14 | 0.88 |
| | 35 | Sevenwall | 1.2 | 0.83 |
| | | XX-wall | 1.4 | 0.71 |
| | | Ten wall | 1.08 | 0.93 |
| | 40 | Ten wall | 0.99 | 1.01 |
| | 55 | Ten wall | 0.83 | 1.20 |
| Float Glass | | | | |
| | 6 | Single | 5.40 | |
| | $6 + 12_{air} + 6$ | Double air filled | 2.75 | |
| K Glass | | | | |
| | $6 + 12_{air} + 6$ | Double air filled | 1.90 | |
| | $6 + 12_{air} + 6$ | Double argon filled | 1.60 | |



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