

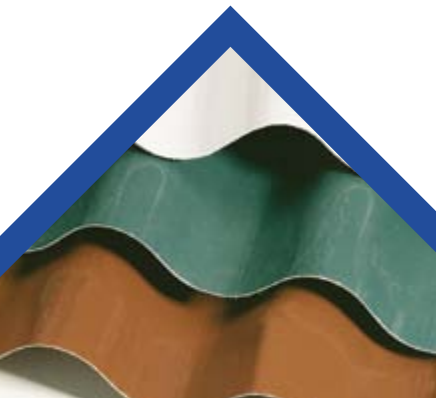
**AL AWAZIL**

Technical Industries L.L.C.

Wall Cladding Sheets  
Roof Cladding Sheets  
Curved Cladding Sheets  
Flashing Sheets  
Sandwich Panels  
Flat Panels & Cold Store Panels



شركة العوازل  
للصناعات الفنية ذ.م.م





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## Introduction



Al Awazil Technical Industries LLC. is a Ajman based company which specializes in the design and manufacturing in the field of Cladding Sheets and Insulated Panels. Al Awazil Technical Industries LLC. operates its business from a very modern and well developed production facility, located at Ajman New Industrial Area.

The Company's product range includes Wall Cladding Sheets, Roof Cladding Sheets, Curved Cladding Sheets, Flashing Sheets, Sandwich Panels, Flat Panels and Cold Store Panels.

The Company employs a team of highly skilled and experienced professionals to maintain the highest level of Quality control procedures as well as the health and safety policies resulting in high quality products and ensuring complete customer satisfaction. With its extensive experience, the company is in a unique position to offer the clients comprehensive and tailored solutions for their above requirements. Needless to mention the goodwill of the firm which is enjoying nearly 100% repeat customer rate.







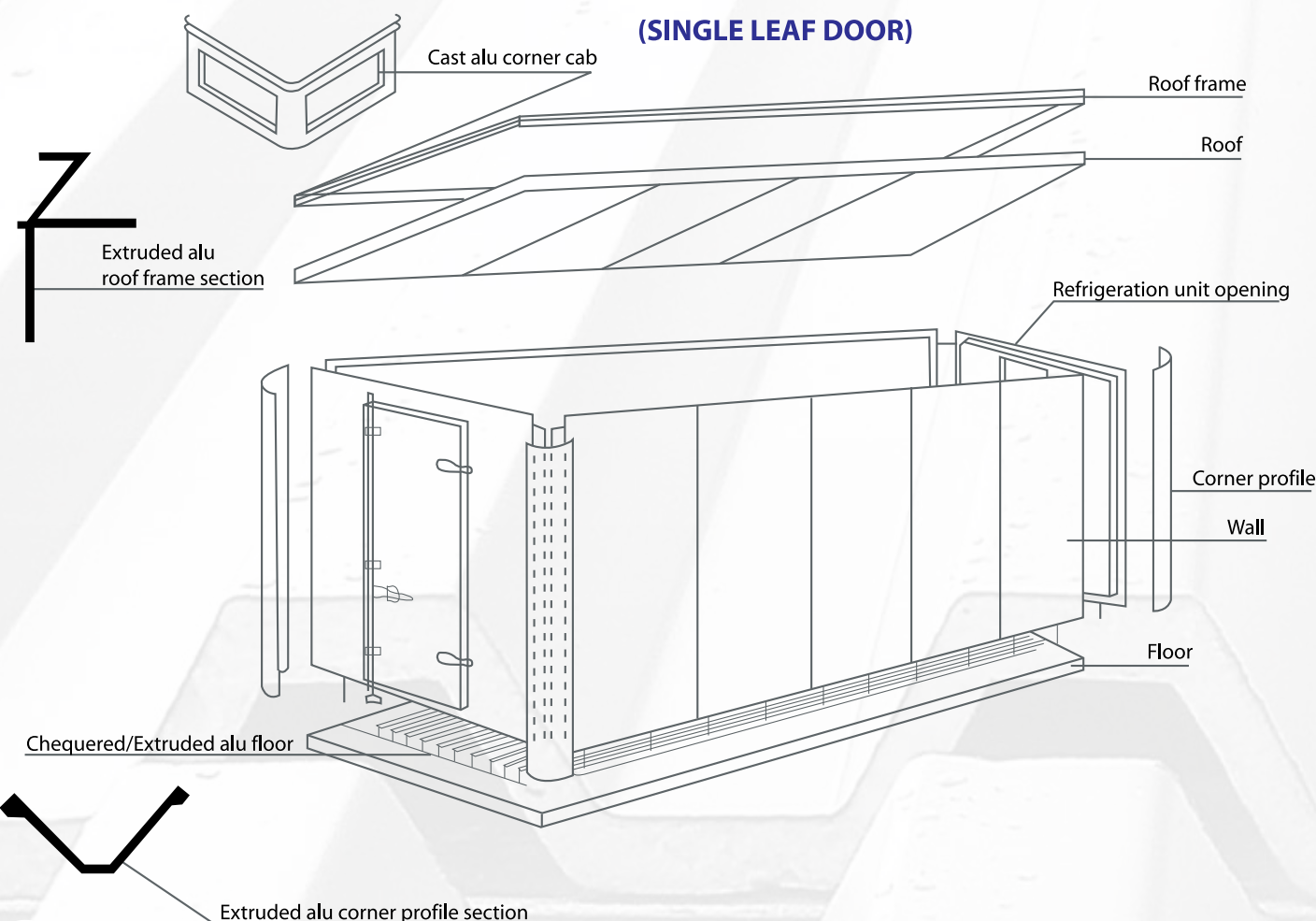
## Product Specifications

### COLD STORAGE PANELS

Al Awazil manufacture cold stores both free standing and reefer container type, designed individually to meet the customers specific requirements. The cold room doors of highest standards are in-built in our factory as per the clients requirement and are provided with complete accessories such as door locks, rubber gaskets, curtains and safety release mechanism. We can produce the panels from 50 mm to 150 mm thickness, overall density 40 kg/m<sup>3</sup> and camlocks on every 1000 mm.

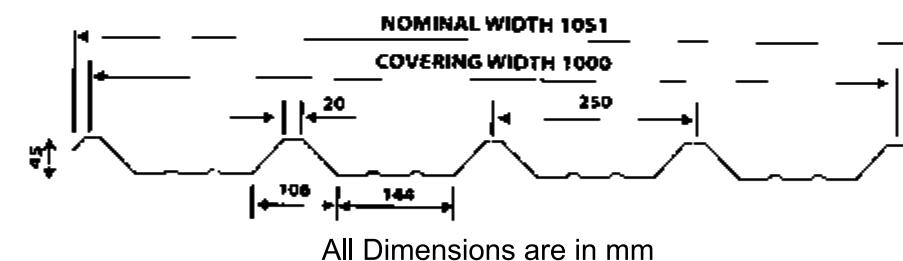


**REFRIGERATED TRANSPORT  
EXPLODED VIEW OF REFRIGERATED CONTAINER  
(SINGLE LEAF DOOR)**



## Product Specifications

### ATI 45/250 ALUMINIUM PROFILE SHEET



#### ATI 45/250 Aluminium Profile Sheet Properties and Load Tables

**Material:** Aluminium Alloy 3105 which conforms to BS 3105 Alloy, Temper H 16. Ys Min. 124 N/mm<sup>2</sup>. Available in Mill Finish and Polyester and PVF2 coated on top with 25 micron and 5 to 8 micron primer coat on reverse side compatible to PUF.

**Standard Colour:** RAL 9002 (off white), RAL 1001 (Beige), RAL 5012 (Blue), RAL BS12B52 (Emirates Green)

Non standard colour also can be arranged upon request.





## Product Specifications

### SECTION PROPERTIES AND LOAD TABLES

| Section Properties (per meter of coverage width) |                             |                         |                    |                        |                           |         |                       |                        |                           |         |                |
|--------------------------------------------------|-----------------------------|-------------------------|--------------------|------------------------|---------------------------|---------|-----------------------|------------------------|---------------------------|---------|----------------|
| Thickness<br>mm                                  | Weight<br>Kg/m <sup>2</sup> | Area<br>cm <sup>2</sup> | Top in Compression |                        |                           |         | Bottom in Compression |                        |                           |         | Shear<br>Va KN |
|                                                  |                             |                         | Ix cm <sup>4</sup> | Sx Top cm <sup>3</sup> | Sx Bottom cm <sup>3</sup> | Ma KN-m | Ix cm <sup>4</sup>    | Sx Top cm <sup>3</sup> | Sx Bottom cm <sup>3</sup> | Ma KN-m |                |
| 0.50                                             | 1.65                        | 6.09                    | 12.75              | 3.70                   | 11.71                     | 0.40    | 11.60                 | 4.99                   | 5.26                      | 0.54    | 3.33           |
| 0.60                                             | 1.98                        | 7.31                    | 16.83              | 5.04                   | 14.04                     | 0.54    | 14.46                 | 6.06                   | 6.71                      | 0.65    | 5.76           |
| 0.70                                             | 2.31                        | 8.53                    | 21.17              | 6.51                   | 16.37                     | 0.70    | 17.38                 | 7.15                   | 8.22                      | 0.77    | 9.14           |
| 0.80                                             | 2.65                        | 9.75                    | 25.80              | 8.14                   | 18.71                     | 0.88    | 20.40                 | 8.25                   | 9.83                      | 0.89    | 13.41          |
| 0.90                                             | 2.98                        | 10.97                   | 30.61              | 9.87                   | 21.03                     | 1.06    | 23.51                 | 9.35                   | 11.51                     | 1.01    | 16.88          |
| 1.00                                             | 3.31                        | 12.19                   | 34.57              | 11.22                  | 23.33                     | 1.21    | 26.69                 | 10.46                  | 13.28                     | 1.13    | 19.24          |

| Allowable Uniform Load Capacities (KN/m <sup>2</sup> ) |                 |              |                |      |      |      |      |      |      |      |      |
|--------------------------------------------------------|-----------------|--------------|----------------|------|------|------|------|------|------|------|------|
| Thickness<br>mm                                        | No. of<br>Spans | Load<br>Case | Span in Meters |      |      |      |      |      |      |      |      |
|                                                        |                 |              | 1.00           | 1.25 | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
| 0.50                                                   | upto 2 spans    | D+L          | 3.19           | 2.04 | 1.42 | 1.04 | 0.80 | 0.63 | 0.51 | 0.42 | 0.35 |
|                                                        |                 | Uplift       | 4.30           | 2.75 | 1.91 | 1.40 | 1.08 | 0.85 | 0.69 | 0.57 | 0.48 |
|                                                        | 3or more spans  | D+L          | 3.99           | 2.55 | 1.77 | 1.30 | 1.00 | 0.79 | 0.64 | 0.53 | 0.44 |
|                                                        |                 | Uplift       | 5.38           | 3.44 | 2.39 | 1.76 | 1.34 | 1.06 | 0.86 | 0.71 | 0.60 |
| 0.60                                                   | upto 2 spans    | D+L          | 4.35           | 2.78 | 1.93 | 1.42 | 1.09 | 0.86 | 0.70 | 0.57 | 0.48 |
|                                                        |                 | Uplift       | 5.23           | 3.35 | 2.32 | 1.71 | 1.31 | 1.03 | 0.84 | 0.69 | 0.58 |
|                                                        | 3or more spans  | D+L          | 5.43           | 3.48 | 2.41 | 1.77 | 1.36 | 1.07 | 0.87 | 0.72 | 0.60 |
|                                                        |                 | Uplift       | 6.54           | 4.18 | 2.90 | 2.13 | 1.63 | 1.29 | 1.05 | 0.86 | 0.73 |
| 0.70                                                   | upto 2 spans    | D+L          | 5.62           | 3.59 | 2.50 | 1.83 | 1.40 | 1.11 | 0.90 | 0.74 | 0.62 |
|                                                        |                 | Uplift       | 6.16           | 3.94 | 2.74 | 2.01 | 1.54 | 1.22 | 0.99 | 0.81 | 0.68 |
|                                                        | 3or more spans  | D+L          | 7.02           | 4.49 | 3.12 | 2.29 | 1.76 | 1.39 | 1.12 | 0.93 | 0.78 |
|                                                        |                 | Uplift       | 7.70           | 4.93 | 3.42 | 2.51 | 1.93 | 1.52 | 1.23 | 1.02 | 0.86 |
| 0.80                                                   | upto 2 spans    | D+L          | 7.02           | 4.49 | 3.12 | 2.29 | 1.75 | 1.39 | 1.12 | 0.93 | 0.78 |
|                                                        |                 | Uplift       | 7.11           | 4.55 | 3.16 | 2.32 | 1.78 | 1.40 | 1.14 | 0.94 | 0.79 |
|                                                        | 3or more spans  | D+L          | 8.77           | 5.61 | 3.90 | 2.86 | 2.19 | 1.73 | 1.40 | 1.16 | 0.97 |
|                                                        |                 | Uplift       | 8.89           | 5.69 | 3.95 | 2.90 | 2.22 | 1.76 | 1.42 | 1.18 | 0.99 |
| 0.90                                                   | upto 2 spans    | D+L          | 8.51           | 5.45 | 3.78 | 2.78 | 2.13 | 1.68 | 1.36 | 1.13 | 0.95 |
|                                                        |                 | Uplift       | 8.06           | 5.16 | 3.58 | 2.63 | 2.02 | 1.59 | 1.29 | 1.07 | 0.90 |
|                                                        | 3or more spans  | D+L          | 10.64          | 6.81 | 4.73 | 3.47 | 2.66 | 2.10 | 1.70 | 1.41 | 1.18 |
|                                                        |                 | Uplift       | 10.08          | 6.45 | 4.48 | 3.29 | 2.52 | 1.99 | 1.61 | 1.33 | 1.12 |
| 1.00                                                   | upto 2 spans    | D+L          | 9.68           | 6.20 | 4.30 | 3.16 | 2.42 | 1.91 | 1.55 | 1.28 | 1.08 |
|                                                        |                 | Uplift       | 9.02           | 5.77 | 4.01 | 2.94 | 2.25 | 1.78 | 1.44 | 1.19 | 1.00 |
|                                                        | 3or more spans  | D+L          | 12.10          | 7.74 | 5.38 | 3.95 | 3.03 | 2.39 | 1.94 | 1.60 | 1.34 |
|                                                        |                 | Uplift       | 11.27          | 7.21 | 5.01 | 3.68 | 2.82 | 2.23 | 1.80 | 1.49 | 1.25 |

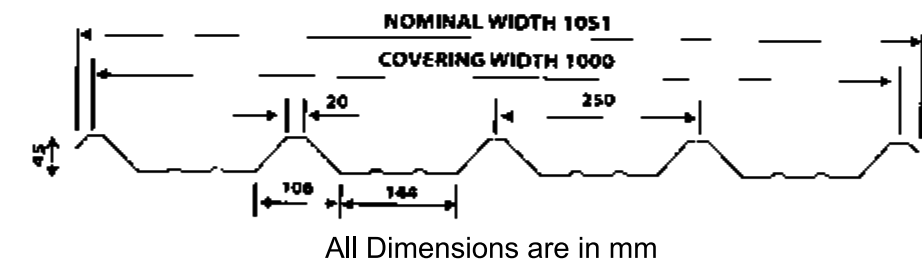
### Notes:

- Design of sheeting is based on equations of AISI-2001 (ASD-Allowable stress design)
- D+L = Dead + Live Load (Deflection Limitation : Span/180)
- Wind Uplift (Deflection Limitation: Span/120)



## Product Specifications

### ATI 45/250 G.I PROFILE SHEET



### ATI 45/250 Galvanized Steel Profile Sheet Properties and Load Tables

**Material:** Conforming to ASTM A 653, Grade A. LFQ. Available in Mill Finish and Polyester coated on top with 25 micron and 5 to 8 micron primer coat on reverse side compatible to PUF.

**Standard Colour:** RAL 9002 (off white), RAL 1001 (Beige), RAL 5012 (Blue), RAL BS12B52 (Emirates Green)

Non standard colour also can be arranged upon request.





## Product Specifications

### SECTION PROPERTIES AND LOAD TABLES

| Section Properties (per meter of coverage width) |                   |                 |                    |                       |                          |         |                       |                       |                          |         |       |
|--------------------------------------------------|-------------------|-----------------|--------------------|-----------------------|--------------------------|---------|-----------------------|-----------------------|--------------------------|---------|-------|
| Thickness                                        | Weight            | Area            | Top in Compression |                       |                          |         | Bottom in Compression |                       |                          |         | Shear |
| mm                                               | Kg/m <sup>2</sup> | cm <sup>2</sup> | Ix cm <sup>4</sup> | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Ix cm <sup>4</sup>    | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Va KN |
| 0.4                                              | 3.82              | 4.88            | 9.97               | 2.88                  | 9.4                      | 0.96    | 9.57                  | 4.04                  | 4.44                     | 1.34    | 7.54  |
| 0.5                                              | 4.78              | 6.09            | 14.09              | 4.23                  | 11.77                    | 1.41    | 12.53                 | 5.14                  | 5.99                     | 1.71    | 14.72 |
| 0.6                                              | 5.73              | 7.31            | 18.54              | 5.75                  | 14.13                    | 1.91    | 15.59                 | 6.24                  | 7.64                     | 2.08    | 25.43 |
| 0.7                                              | 6.69              | 8.53            | 23.2               | 7.4                   | 16.5                     | 2.46    | 18.75                 | 7.36                  | 9.4                      | 2.45    | 37.17 |
| 0.8                                              | 7.65              | 9.75            | 27.72              | 9                     | 18.87                    | 2.99    | 22.04                 | 8.49                  | 11.28                    | 2.82    | 45.82 |
| 0.9                                              | 8.6               | 10.97           | 31.36              | 10.2                  | 21.16                    | 3.39    | 25.39                 | 9.62                  | 13.25                    | 3.2     | 51.18 |
| 1.0                                              | 9.56              | 12.19           | 34.98              | 11.4                  | 23.42                    | 3.79    | 28.81                 | 10.76                 | 15.3                     | 3.58    | 56.85 |

| Allowable Uniform Load Capacities (KN/m <sup>2</sup> ) |                 |        |                |       |       |       |      |      |      |      |      |
|--------------------------------------------------------|-----------------|--------|----------------|-------|-------|-------|------|------|------|------|------|
| Thickness                                              | No. of Spans    | Load   | Span in Meters |       |       |       |      |      |      |      |      |
| mm                                                     | No's            | Case   | 1              | 1.25  | 1.5   | 1.75  | 2    | 2.25 | 2.5  | 2.75 | 3    |
| 0.40                                                   | upto 2 spans    | D+L    | 7.66           | 4.43  | 2.56  | 1.61  | 1.08 | 0.76 | 0.55 | 0.42 | 0.32 |
|                                                        | 3 or more spans | Uplift | 10.74          | 6.38  | 3.69  | 2.32  | 1.56 | 1.09 | 0.80 | 0.60 | 0.46 |
|                                                        | 3 or more spans | D+L    | 9.57           | 6.12  | 4.25  | 3.05  | 2.04 | 1.43 | 1.05 | 0.79 | 0.60 |
| 0.50                                                   | upto 2 spans    | Uplift | 12.57          | 8.60  | 5.97  | 4.39  | 2.94 | 2.06 | 1.50 | 1.13 | 0.87 |
|                                                        | 3 or more spans | D+L    | 11.25          | 6.26  | 3.62  | 2.28  | 1.53 | 1.07 | 0.78 | 0.59 | 0.45 |
|                                                        | 3 or more spans | Uplift | 13.66          | 8.35  | 4.83  | 3.04  | 2.04 | 1.43 | 1.04 | 0.78 | 0.60 |
| 0.60                                                   | upto 2 spans    | D+L    | 14.06          | 9.00  | 6.25  | 4.31  | 2.88 | 2.03 | 1.48 | 1.11 | 0.85 |
|                                                        | 3 or more spans | Uplift | 17.07          | 10.92 | 7.59  | 5.57  | 3.85 | 2.70 | 1.97 | 1.48 | 1.14 |
|                                                        | 3 or more spans | D+L    | 15.28          | 8.24  | 4.77  | 3.00  | 2.01 | 1.41 | 1.03 | 0.77 | 0.60 |
| 0.70                                                   | upto 2 spans    | Uplift | 16.60          | 10.39 | 6.01  | 3.79  | 2.54 | 1.78 | 1.30 | 0.98 | 0.75 |
|                                                        | 3 or more spans | D+L    | 19.10          | 12.22 | 8.49  | 5.66  | 3.79 | 2.66 | 1.94 | 1.46 | 1.12 |
|                                                        | 3 or more spans | Uplift | 20.75          | 13.28 | 9.22  | 6.78  | 4.79 | 3.36 | 2.45 | 1.84 | 1.42 |
| 0.80                                                   | upto 2 spans    | D+L    | 19.67          | 10.31 | 5.97  | 3.76  | 2.52 | 1.77 | 1.29 | 0.97 | 0.75 |
|                                                        | 3 or more spans | Uplift | 19.57          | 12.50 | 7.23  | 4.55  | 3.05 | 2.14 | 1.56 | 1.17 | 0.90 |
|                                                        | 3 or more spans | D+L    | 24.59          | 15.74 | 10.93 | 7.09  | 4.75 | 3.34 | 2.43 | 1.83 | 1.41 |
| 0.90                                                   | upto 2 spans    | Uplift | 24.46          | 15.65 | 10.87 | 7.99  | 5.76 | 4.04 | 2.95 | 2.21 | 1.71 |
|                                                        | 3 or more spans | D+L    | 23.94          | 12.32 | 7.13  | 4.49  | 3.01 | 2.11 | 1.54 | 1.16 | 0.89 |
|                                                        | 3 or more spans | Uplift | 22.58          | 14.45 | 8.50  | 5.35  | 3.59 | 2.52 | 1.84 | 1.38 | 1.06 |
| 1.00                                                   | upto 2 spans    | D+L    | 29.92          | 19.15 | 13.30 | 8.47  | 5.67 | 3.99 | 2.91 | 2.18 | 1.68 |
|                                                        | 3 or more spans | Uplift | 28.22          | 18.06 | 12.54 | 9.21  | 6.77 | 4.75 | 3.46 | 2.60 | 2.00 |
|                                                        | 3 or more spans | D+L    | 27.14          | 13.94 | 8.06  | 5.08  | 3.40 | 2.39 | 1.74 | 1.31 | 1.01 |
| 1.00                                                   | upto 2 spans    | Uplift | 25.59          | 16.38 | 9.79  | 6.17  | 4.13 | 2.90 | 2.12 | 1.59 | 1.22 |
|                                                        | 3 or more spans | D+L    | 33.92          | 21.71 | 15.08 | 9.58  | 6.42 | 4.51 | 3.29 | 2.47 | 1.90 |
|                                                        | 3 or more spans | Uplift | 31.99          | 20.47 | 14.22 | 10.45 | 7.80 | 5.47 | 3.99 | 3.00 | 2.31 |
| 1.00                                                   | upto 2 spans    | D+L    | 30.33          | 15.54 | 9.00  | 5.66  | 3.80 | 2.67 | 1.94 | 1.46 | 1.12 |
|                                                        | 3 or more spans | Uplift | 28.61          | 18.31 | 11.11 | 7.00  | 4.69 | 3.29 | 2.40 | 1.80 | 1.39 |
|                                                        | 3 or more spans | D+L    | 37.91          | 24.26 | 16.85 | 10.69 | 7.16 | 5.03 | 3.67 | 2.75 | 2.12 |
|                                                        | 3 or more spans | Uplift | 35.76          | 22.89 | 15.89 | 11.68 | 8.85 | 6.21 | 4.53 | 3.40 | 2.62 |

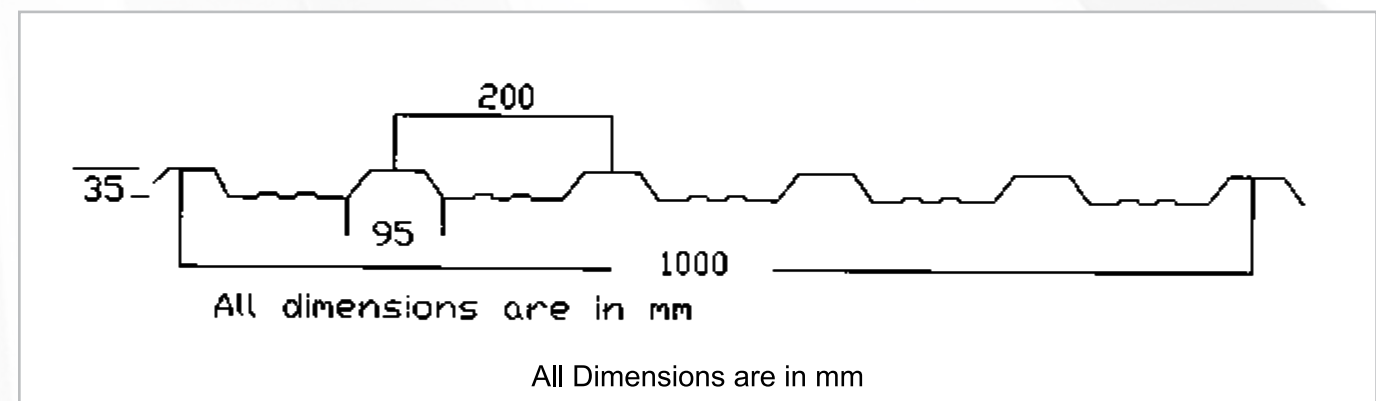
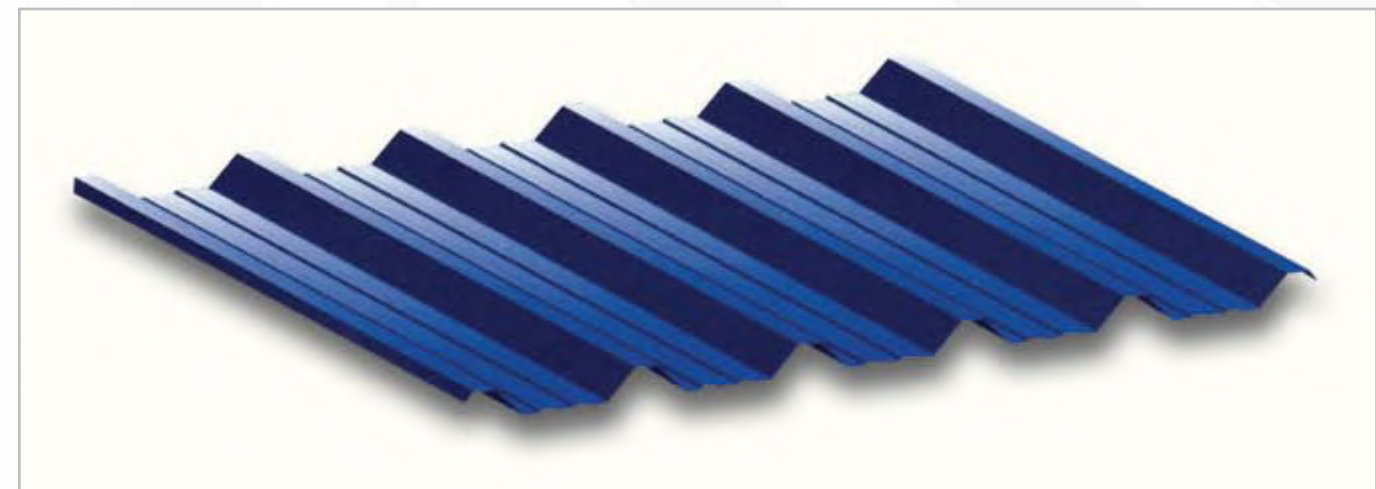
### Notes:

- Design of sheeting is based on equations of AISI-2001 (ASD-Allowable stress design)
- D+L = Dead + Live Load (Deflection Limitation : Span/180)
- Wind Uplift (Deflection Limitation: Span/120)



## Product Specifications

### ATI 35/200 ALUMINIUM PROFILE SHEET



#### ATI 35/200 Aluminium Profile Sheet Properties and Load Tables

**Material:** Aluminium Alloy 3105 which conforms to BS 3105 Alloy, Temper H 16. Ys Min. 124 N/mm<sup>2</sup>. Available in Mill Finish and Polyester and PVF2 coated on top with 25 micron and 5 to 8 micron primer coat on reverse side compatible to PUF.

**Standard Colour:** RAL 9002 (off white), RAL 1001 (Beige), RAL 5012 (Blue), RAL BS12B52 (Emirates Green)

Non standard colour also can be arranged upon request.





## Product Specifications

### SECTION PROPERTIES AND LOAD TABLES

| Section Properties (per meter of coverage width) |                   |                 |                    |                       |                          |         |                       |                       |                          |         |       |
|--------------------------------------------------|-------------------|-----------------|--------------------|-----------------------|--------------------------|---------|-----------------------|-----------------------|--------------------------|---------|-------|
| Thickness                                        | Weight            | Area            | Top in Compression |                       |                          |         | Bottom in Compression |                       |                          |         | Shear |
| mm                                               | Kg/m <sup>2</sup> | cm <sup>2</sup> | Ix cm <sup>4</sup> | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Ix cm <sup>4</sup>    | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Va KN |
| 0.50                                             | 1.65              | 6.09            | 8.85               | 3.60                  | 8.24                     | 0.39    | 8.25                  | 4.66                  | 4.68                     | 0.50    | 5.10  |
| 0.60                                             | 1.98              | 7.31            | 11.68              | 4.95                  | 9.90                     | 0.53    | 10.25                 | 5.64                  | 5.95                     | 0.61    | 8.80  |
| 0.70                                             | 2.31              | 8.53            | 14.56              | 6.36                  | 11.59                    | 0.69    | 12.30                 | 6.62                  | 7.28                     | 0.71    | 12.81 |
| 0.80                                             | 2.65              | 9.75            | 17.12              | 7.56                  | 13.28                    | 0.81    | 14.41                 | 7.61                  | 8.69                     | 0.82    | 14.88 |
| 0.90                                             | 2.98              | 10.97           | 19.71              | 8.79                  | 14.95                    | 0.95    | 16.57                 | 8.59                  | 10.16                    | 0.93    | 16.64 |
| 1.00                                             | 3.31              | 12.19           | 22.29              | 10.02                 | 16.62                    | 1.08    | 18.77                 | 9.57                  | 11.69                    | 1.03    | 18.38 |

| Allowable Uniform Load Capacities (KN/m <sup>2</sup> ) |                 |        |                |      |      |      |      |      |      |      |      |
|--------------------------------------------------------|-----------------|--------|----------------|------|------|------|------|------|------|------|------|
| Thickness                                              | No. of Spans    | Load   | Span in Meters |      |      |      |      |      |      |      |      |
| mm                                                     | No's            | Case   | 1              | 1.25 | 1.5  | 1.75 | 2    | 2.25 | 2.5  | 2.75 | 3    |
| 0.50                                                   | upto 2 spans    | D+L    | 3.11           | 1.99 | 1.38 | 1.01 | 0.78 | 0.61 | 0.49 | 0.37 | 0.28 |
|                                                        |                 | Uplift | 40.2           | 2.57 | 1.78 | 1.31 | 1.00 | 0.79 | 0.64 | 0.52 | 0.40 |
|                                                        | 3 or more spans | D+L    | 3.88           | 2.48 | 1.73 | 1.27 | 0.97 | 0.77 | 0.62 | 0.51 | 0.43 |
| 0.60                                                   |                 | Uplift | 5.02           | 3.21 | 2.23 | 1.64 | 1.26 | 0.99 | 0.80 | 0.66 | 0.56 |
|                                                        | upto 2 spans    | D+L    | 4.26           | 2.73 | 1.90 | 1.39 | 1.07 | 0.84 | 0.65 | 0.49 | 0.38 |
|                                                        |                 | Uplift | 4.86           | 3.11 | 2.16 | 1.59 | 1.22 | 0.96 | 0.78 | 0.64 | 0.49 |
| 0.70                                                   | 3 or more spans | D+L    | 5.33           | 3.41 | 2.37 | 1.74 | 1.33 | 1.05 | 0.85 | 0.70 | 0.59 |
|                                                        |                 | Uplift | 6.08           | 3.89 | 2.70 | 1.99 | 1.52 | 1.20 | 0.97 | 0.80 | 0.68 |
|                                                        | upto 2 spans    | D+L    | 5.48           | 3.51 | 2.44 | 1.79 | 1.37 | 1.08 | 0.81 | 0.61 | 0.48 |
| 0.80                                                   |                 | Uplift | 5.71           | 3.66 | 2.54 | 1.87 | 1.43 | 1.13 | 0.91 | 0.76 | 0.59 |
|                                                        | 3 or more spans | D+L    | 6.85           | 4.38 | 3.04 | 2.24 | 1.71 | 1.35 | 1.10 | 0.91 | 0.76 |
|                                                        |                 | Uplift | 7.14           | 4.57 | 3.17 | 2.33 | 1.79 | 1.41 | 1.14 | 0.94 | 0.79 |
| 0.90                                                   | upto 2 spans    | D+L    | 6.51           | 4.17 | 2.89 | 2.13 | 1.63 | 1.29 | 0.95 | 0.71 | 0.55 |
|                                                        |                 | Uplift | 6.56           | 4.20 | 2.92 | 2.14 | 1.64 | 1.30 | 1.05 | 0.87 | 0.69 |
|                                                        | 3 or more spans | D+L    | 8.14           | 5.21 | 3.62 | 2.66 | 2.04 | 1.61 | 1.30 | 1.08 | 0.90 |
| 1.00                                                   |                 | Uplift | 8.20           | 5.25 | 3.64 | 2.68 | 2.05 | 1.62 | 1.31 | 1.08 | 0.91 |
|                                                        | upto 2 spans    | D+L    | 7.58           | 4.85 | 3.37 | 2.48 | 1.90 | 1.50 | 1.09 | 0.82 | 0.63 |
|                                                        |                 | Uplift | 7.41           | 4.74 | 3.29 | 2.42 | 1.85 | 1.46 | 1.19 | 0.98 | 0.80 |
|                                                        | 3 or more spans | D+L    | 9.48           | 6.07 | 4.21 | 3.10 | 2.37 | 1.87 | 1.52 | 1.25 | 1.05 |
|                                                        |                 | Uplift | 9.26           | 5.93 | 4.12 | 3.02 | 2.32 | 1.83 | 1.48 | 1.22 | 1.03 |
|                                                        | upto 2 spans    | D+L    | 8.63           | 5.52 | 3.84 | 2.82 | 2.16 | 1.70 | 1.24 | 0.93 | 0.72 |
|                                                        |                 | Uplift | 8.26           | 5.28 | 3.67 | 2.70 | 2.06 | 1.63 | 1.32 | 1.09 | 0.91 |
|                                                        | 3 or more spans | D+L    | 10.79          | 6.91 | 4.80 | 3.52 | 2.70 | 2.13 | 1.73 | 1.43 | 1.20 |
|                                                        |                 | Uplift | 10.32          | 6.60 | 4.59 | 3.37 | 2.58 | 2.04 | 1.65 | 1.36 | 1.15 |

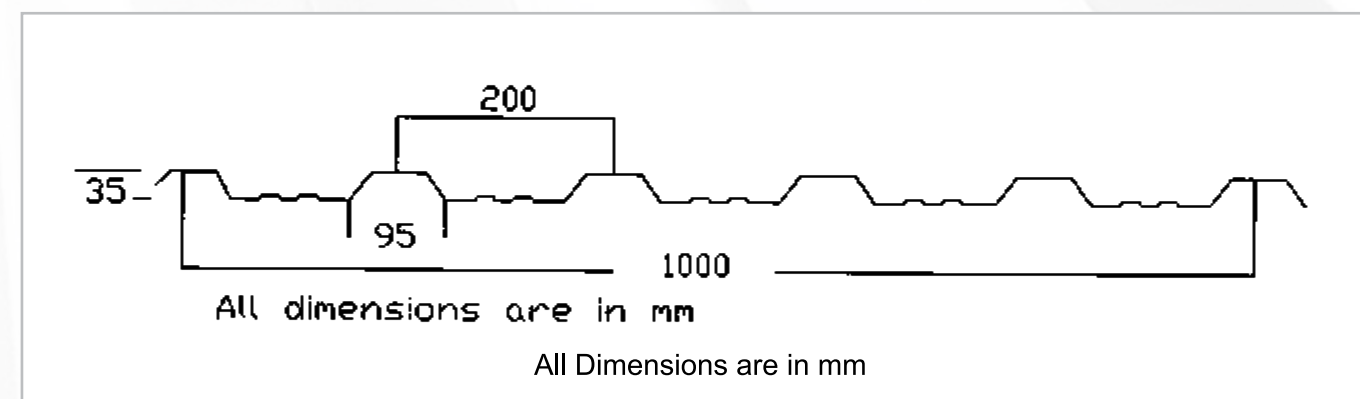
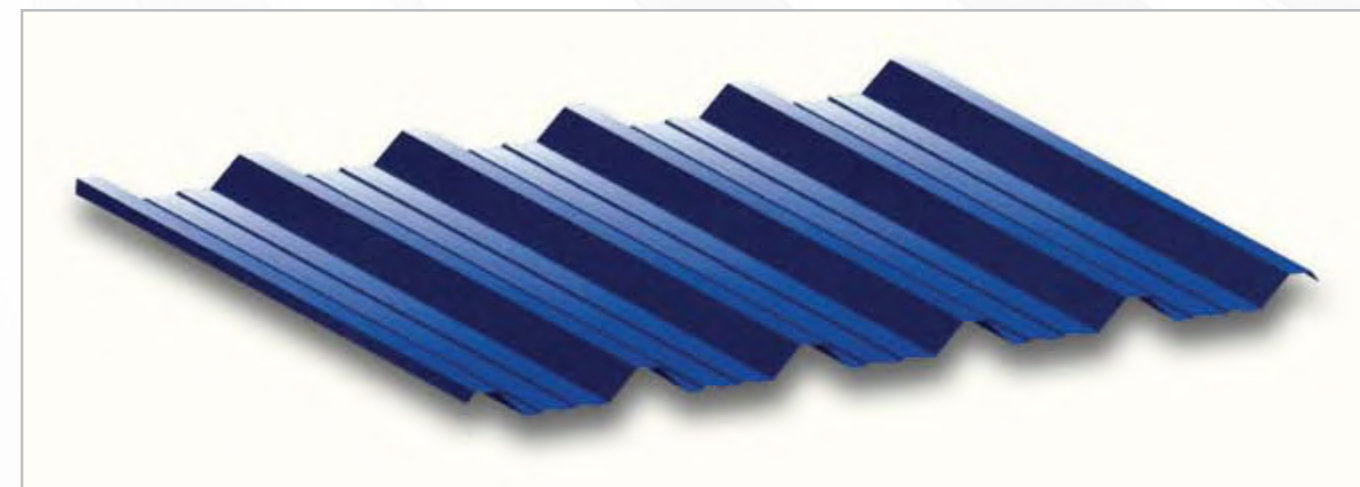
### Notes:

- Design of sheeting is based on equations of AISI-2001 (ASD-Allowable stress design)
- D+L = Dead + Live Load (Deflection Limitation : Span/180)
- Wind Uplift (Deflection Limitation: Span/120)



## Product Specifications

### ATI 35/200 - G.I. SINGLE SKIN PROFILE SHEET



### ATI 35/200 Galvanized Steel Profile Sheet Properties and Load Tables

**Material:** Conforming to ASTM A 653, Grade A. LFQ. Available in Mill Finish and Polyester coated on top with 25 micron and 5 to 8 micron primer coat on reverse side compatible to PUF.

**Standard Colour:** RAL 9002 (off white), RAL 1001 (Beige), RAL 5012 (Blue), RAL BS12B52 (Emirates Green)

Non standard colour also can be arranged upon request.



## Product Specifications

### SECTION PROPERTIES AND LOAD TABLES

| Section Properties (per meter of coverage width) |                   |                 |                    |                       |                          |         |                       |                       |                          |         |       |
|--------------------------------------------------|-------------------|-----------------|--------------------|-----------------------|--------------------------|---------|-----------------------|-----------------------|--------------------------|---------|-------|
| Thickness                                        | Weight            | Area            | Top in Compression |                       |                          |         | Bottom in Compression |                       |                          |         | Shear |
| mm                                               | Kg/m <sup>2</sup> | cm <sup>2</sup> | Ix cm <sup>4</sup> | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Ix cm <sup>4</sup>    | Sx Topcm <sup>3</sup> | Sx Bottomcm <sup>3</sup> | Ma KN-m | Va KN |
| 0.40                                             | 3.82              | 4.88            | 7.00               | 2.83                  | 6.63                     | 0.94    | 6.83                  | 3.78                  | 3.96                     | 1.26    | 11.51 |
| 0.46                                             | 4.40              | 5.61            | 8.64               | 3.60                  | 7.65                     | 1.20    | 8.06                  | 4.38                  | 4.77                     | 1.46    | 17.55 |
| 0.50                                             | 4.78              | 6.10            | 9.80               | 4.16                  | 8.33                     | 1.38    | 8.90                  | 4.79                  | 5.32                     | 1.59    | 22.52 |
| 0.60                                             | 5.73              | 7.31            | 12.64              | 5.54                  | 10.04                    | 1.84    | 11.05                 | 5.79                  | 6.76                     | 1.93    | 33.36 |
| 0.70                                             | 6.69              | 8.53            | 15.24              | 6.77                  | 11.77                    | 2.25    | 13.25                 | 6.80                  | 8.29                     | 2.26    | 38.70 |

| Allowable Uniform Load Capacities (KN/m <sup>2</sup> ) |                 |           |                |       |      |      |      |      |      |      |      |
|--------------------------------------------------------|-----------------|-----------|----------------|-------|------|------|------|------|------|------|------|
| Thickness                                              | No. of Spans    | Load Case | Span in Meters |       |      |      |      |      |      |      |      |
| mm                                                     | No's            | Case      | 1.00           | 1.25  | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
| 0.40                                                   | upto 2 spans    | D+L       | 6.08           | 3.11  | 1.80 | 1.13 | 0.76 | 0.53 | 0.39 | 0.29 | 0.23 |
|                                                        |                 | Uplift    | 8.89           | 4.55  | 2.63 | 1.66 | 1.11 | 0.78 | 0.57 | 0.43 | 0.33 |
|                                                        | 3 or more spans | D+L       | 9.42           | 5.87  | 3.40 | 2.14 | 1.43 | 1.01 | 0.73 | 0.55 | 0.42 |
|                                                        |                 | Uplift    | 12.58          | 8.05  | 4.97 | 3.13 | 2.10 | 1.47 | 1.07 | 0.81 | 0.62 |
| 0.46                                                   | upto 2 spans    | D+L       | 7.50           | 3.84  | 2.22 | 1.40 | 0.94 | 0.66 | 0.48 | 0.36 | 0.28 |
|                                                        |                 | Uplift    | 10.50          | 5.37  | 3.11 | 1.96 | 1.31 | 0.92 | 0.67 | 0.50 | 0.39 |
|                                                        | 3 or more spans | D+L       | 11.97          | 7.25  | 4.19 | 2.64 | 1.77 | 1.24 | 0.91 | 0.68 | 0.52 |
|                                                        |                 | Uplift    | 14.58          | 9.33  | 5.87 | 3.70 | 2.48 | 1.74 | 1.27 | 0.95 | 0.73 |
| 0.50                                                   | upto 2 spans    | D+L       | 8.51           | 4.36  | 2.52 | 1.59 | 1.06 | 0.75 | 0.54 | 0.41 | 0.32 |
|                                                        |                 | Uplift    | 11.59          | 5.93  | 3.43 | 2.16 | 1.45 | 1.02 | 0.74 | 0.56 | 0.43 |
|                                                        | 3 or more spans | D+L       | 13.84          | 8.22  | 4.76 | 3.00 | 2.01 | 1.41 | 1.03 | 0.77 | 0.59 |
|                                                        |                 | Uplift    | 15.91          | 10.18 | 6.48 | 4.08 | 2.73 | 1.92 | 1.49 | 1.05 | 0.81 |
| 0.60                                                   | upto 2 spans    | D+L       | 10.97          | 5.62  | 3.25 | 2.05 | 1.37 | 0.96 | 0.70 | 0.53 | 0.41 |
|                                                        |                 | Uplift    | 18.42          | 10.60 | 6.13 | 3.86 | 2.59 | 1.82 | 1.32 | 1.00 | 0.77 |
|                                                        | 3 or more spans | D+L       | 14.38          | 7.36  | 4.26 | 2.68 | 1.80 | 1.26 | 0.92 | 0.69 | 0.53 |
|                                                        |                 | Uplift    | 19.26          | 12.33 | 8.04 | 5.06 | 3.39 | 2.38 | 1.74 | 1.30 | 1.00 |
| 0.70                                                   | upto 2 spans    | D+L       | 13.22          | 6.77  | 3.92 | 2.47 | 1.65 | 1.16 | 0.85 | 0.64 | 0.49 |
|                                                        |                 | Uplift    | 17.25          | 8.83  | 5.11 | 3.22 | 2.16 | 1.51 | 1.10 | 0.83 | 0.64 |
|                                                        | 3 or more spans | D+L       | 22.49          | 12.77 | 7.39 | 4.66 | 3.12 | 2.19 | 1.60 | 1.20 | 0.92 |
|                                                        |                 | Uplift    | 22.61          | 14.47 | 9.64 | 6.07 | 4.07 | 2.86 | 2.08 | 1.56 | 1.21 |

### Notes:

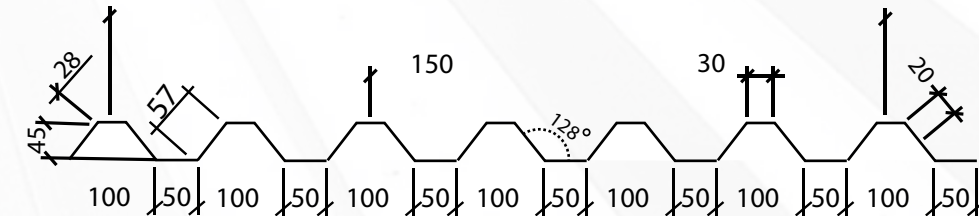
- Design of sheeting is based on equations of AISI-2001 (ASD-Allowable stress design)
- D+L = Dead + Live Load (Deflection Limitation : Span/180)
- Wind Uplift (Deflection Limitation: Span/120)



## Product Specifications

### ATI 45/150 - METAL DECKING

Grade of Steel = SS 340



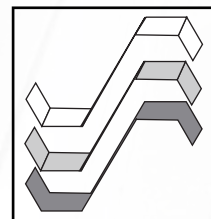
Load in kN/m<sup>2</sup> based on Moment

| Thickness | Single Continuous | Purlin Spacing C.C in mm |      |      |      |      |      |      | For 1m width        |        |                 |
|-----------|-------------------|--------------------------|------|------|------|------|------|------|---------------------|--------|-----------------|
|           |                   | 1000                     | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 |                     |        |                 |
| 0.5       | Single            | 21.7                     | 13.9 | 9.6  | 7.1  | 5.4  | 4.3  | 3.5  | Inertia             | 190736 | mm <sup>4</sup> |
|           | Continuous        | 21.7                     | 17.4 | 12   | 8.8  | 6.8  | 5.4  | 4.3  | Z <sub>x, max</sub> | 190736 | mm <sup>3</sup> |
| 0.6       | Single            | 26                       | 16.6 | 11.5 | 8.5  | 6.5  | 5.1  | 4.2  | Inertia             | 228858 | mm <sup>4</sup> |
|           | Continuous        | 32.4                     | 20.8 | 14.4 | 10.6 | 8.1  | 6.4  | 5.2  | Z <sub>x, max</sub> | 9544   | mm <sup>3</sup> |
| 0.7       | Single            | 30.2                     | 19.3 | 13.4 | 9.9  | 7.6  | 6    | 4.8  | Inertia             | 266974 | mm <sup>4</sup> |
|           | Continuous        | 37.8                     | 24.2 | 16.8 | 12.3 | 9.4  | 7.5  | 6    | Z <sub>x, max</sub> | 11105  | mm <sup>3</sup> |
| 0.8       | Single            | 34.4                     | 22   | 15.3 | 11.2 | 8.6  | 6.8  | 5.5  | Inertia             | 305084 | mm <sup>4</sup> |
|           | Continuous        | 43                       | 27.5 | 19.1 | 14   | 10.8 | 8.5  | 6.9  | Z <sub>x, max</sub> | 12659  | mm <sup>3</sup> |
| 0.9       | Single            | 38.6                     | 24.7 | 17.2 | 12.6 | 9.6  | 7.6  | 6.2  | Inertia             | 343189 | mm <sup>4</sup> |
|           | Continuous        | 48.3                     | 30.9 | 21.5 | 15.8 | 12.1 | 9.5  | 7.7  | Z <sub>x, max</sub> | 14205  | mm <sup>3</sup> |
| 1.0       | Single            | 42.8                     | 27.4 | 19   | 14   | 10.7 | 8.5  | 6.9  | Inertia             | 381291 | mm <sup>4</sup> |
|           | Continuous        | 53.5                     | 34.3 | 23.8 | 17.5 | 13.4 | 10.6 | 8.6  | Z <sub>x, max</sub> | 15743  | mm <sup>3</sup> |
| 1.1       | Single            | 47                       | 30   | 20.9 | 15.3 | 11.7 | 9.3  | 7.5  | Inertia             | 419389 | mm <sup>4</sup> |
|           | Continuous        | 58.7                     | 37.6 | 26.1 | 19.2 | 14.7 | 11.6 | 9.4  | Z <sub>x, max</sub> | 17271  | mm <sup>3</sup> |
| 1.2       | Single            | 51.1                     | 32.7 | 22.7 | 16.7 | 12.8 | 10.1 | 8.2  | Inertia             | 457485 | mm <sup>4</sup> |
|           | Continuous        | 63.9                     | 40.9 | 28.4 | 19.9 | 15.2 | 12   | 9.7  | Z <sub>x, max</sub> | 18796  | mm <sup>3</sup> |
| 1.3       | Single            | 55.2                     | 35.3 | 24.5 | 18   | 13.8 | 10.9 | 8.8  | Inertia             | 495579 | mm <sup>4</sup> |
|           | Continuous        | 69                       | 44.2 | 30.7 | 22.5 | 17.3 | 13.6 | 11   | Z <sub>x, max</sub> | 20302  | mm <sup>3</sup> |
| 1.4       | Single            | 59.3                     | 38   | 26.4 | 19.4 | 14.8 | 11.7 | 9.5  | Inertia             | 533672 | mm <sup>4</sup> |
|           | Continuous        | 74.2                     | 47.5 | 32.9 | 24.2 | 18.5 | 14.6 | 11.9 | Z <sub>x, max</sub> | 21809  | mm <sup>3</sup> |
| 1.5       | Single            | 63.4                     | 40.6 | 28.2 | 20.7 | 15.9 | 12.5 | 10.1 | Inertia             | 571766 | mm <sup>4</sup> |
|           | Continuous        | 79.3                     | 50.7 | 35.2 | 25.9 | 19.8 | 15.7 | 12.7 | Z <sub>x, max</sub> | 23309  | mm <sup>3</sup> |





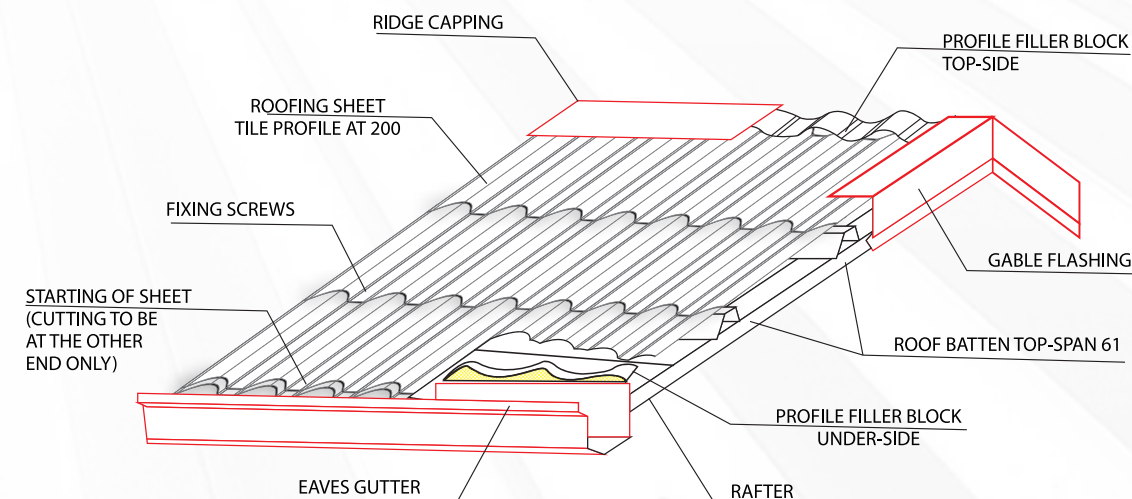
## TILE PROFILE ATI 200



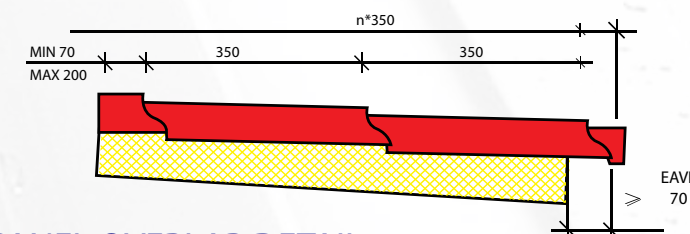
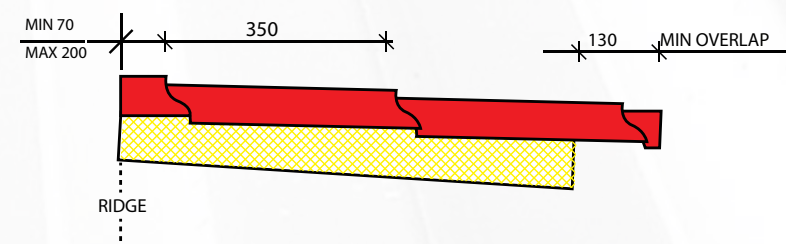
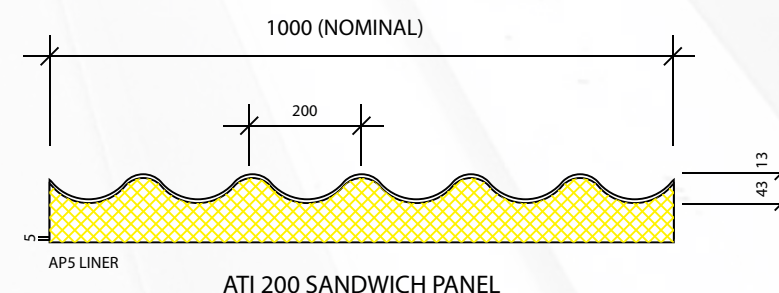
Al Awazil now offers the great look of puts thin bricks at the in competition prices and at a fragment of the weight. And when pumped in with polyurethane, the thin brick outline ATI 200 is a nothing like it mix of pleasing to do with buildings design features with good at producing an effect state-of-art thermal substance to keep things warm or cold.

Broadness is generally 0.6 to 0.7mm, this long-lasting and approachable roof can be manufactured in any color, steel or aluminium with a full range of color – corresponding accessories.

Glassy well established water tightness is available in any length up to 12m. Light yet strong, this outline provides a right flat structure for anyone to walk on. The outline is simple, not hard to put in position of authority and grouped together with Al Awazil Top go across 61. it will let savings on purlins as well.



### TILE PROFILE ON A TYPICAL LIGHT STEEL ROOF STRUCTURE



### ROOF PANEL OVERLAP DETAIL

#### SITE ERECTION RECOMMENDATIONS

Panels shall be rected from left to right, viewed from outside.

Panel fixing screws at roof ride, overlap and eaves shall be at each or valley, whichever is applicable.

Panel fixing screws at gables shall be at the first two crowns or valleys, i.e 200 mm spacings.

For panel to panel side lap fixings, refer to ATI drawings and details.





## Product Specifications

### ATI ACCESSORIES



**TYPE "A"** Thread of 2.54 - Pointed end  
 \* On Wood purlins  
 \* On Steel Pulins  
 3mm Thickness  
 Screw with Ø19mm washer  
 6.5Ø x 25mm  
 6.5Ø x 75mm  
 6.5Ø x 130mm



**TYPE "B"** Thread of 1.81- Flat end  
 \* On Steel pulins exceeding  
 3mm Thickness  
 Screw with Ø19mm washer  
 6.3Ø x 25mm  
 6.3Ø x 75mm  
 6.3Ø x 125mm  
 6.3Ø x 32mm



#### BLIND RIVETS

Sealed Type - 99.5% Pure Aluminium  
 Material composition to BS 1475 A 199.5  
 Mandrel : Aluminium (A)  
 PD 68A 4.8Ø x 11.4mm

Tensile 1060N  
 Strenth (240lbf)  
 Shear 1060 N  
 Stength (240lbf)



#### SCREW CAP

Coloured plastic caps to fit hexagonal head of the screw & cover washer



#### BUTYL STRIP

Roof Cladding side laps and end laps (Special "U" Shape strip available for double seal on end laps), joining single skin rooflights



#### PURLIN TAPE

Polyester cloth laminated to a polythylene backing with a high tack, natural rubber adhesive  
 COLOURS  
 Silver or Black



#### FILLER BLOCK

Sealing all Roof and Wall cladding profiles against water vapour and dust. Roof light fillers. Eaves, Ridges and Transition fillers.  
 SHEAR RESISTANCE : 592 daN  
 TEAR RESISTANCE : 724 daN



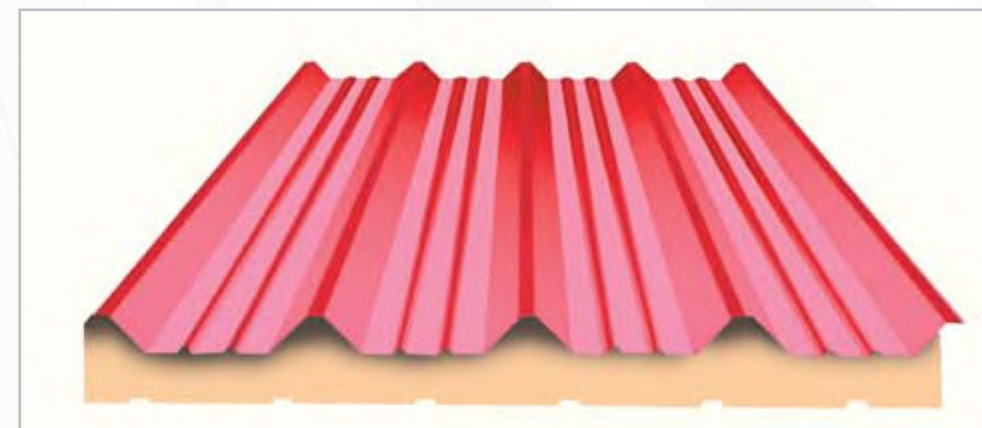
#### SILICON SEALANTS

Use to fill gaps between joint. It is designed to withstand expansion and contraction. They are unaffected by rain, snow, temperature changes and ultraviolet exposure.



## Product Specifications

### Polyurethane Insulated Panels



Polyurethane Insulated panels are produced using rigid polyurethane foam embedded with Aluminium or G.I. cladding from both side. Cladding can be either Mill Finish or Colour Coated. Even Aluminium foil or craft paper also can be used as liner.

#### Available Profile Sheet

- ATI 200 Tile Profile (Cover Width 1000mm)
- ATI 35/200 Profile Sheet (Cover Width 1000mm)
- ATI 45/250 Profile Sheet (Cover Width 1000mm)
- ATI 45/150 Profile Sheet (Cover Width 900mm)

- P.U.F Core: 25mm to 200mm
- Average Density: 35 - 45 Kgs/M<sup>3</sup>

#### U Value

|        |               |
|--------|---------------|
| 25 mm  | 0.66 W/M2 0 C |
| 35 mm  | 0.51 W/M2 0 C |
| 50 mm  | 0.38 W/M2 0 C |
| 100 mm | 0.21 W/M2 0 C |
| 150 mm | 0.14 W/M2 0 C |
| 200mm  | 0.11 W/M2 0 C |



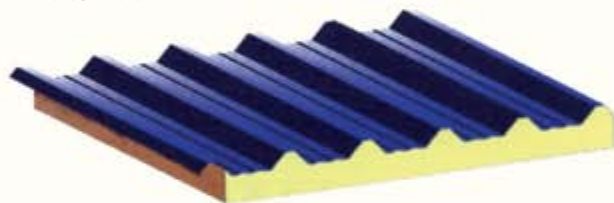


## Product Specifications

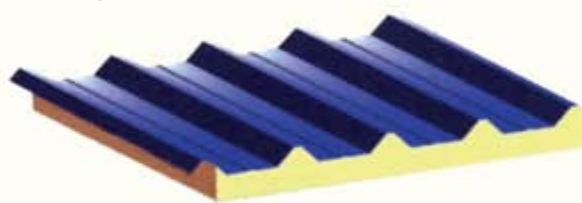
### Types of Insulated Panels

ATI Supplies Profiled Composite Panels based on chosen customer parameters such as Weight, Strength, Durability, Surface finish and colour.

**ATI 35/200**



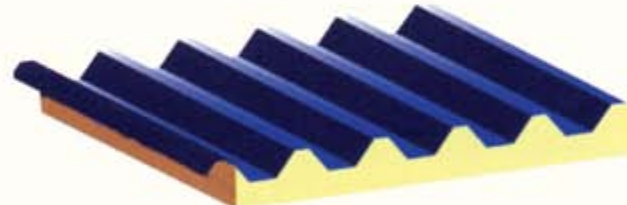
**ATI 45/250**



**ATI 200 TILE**

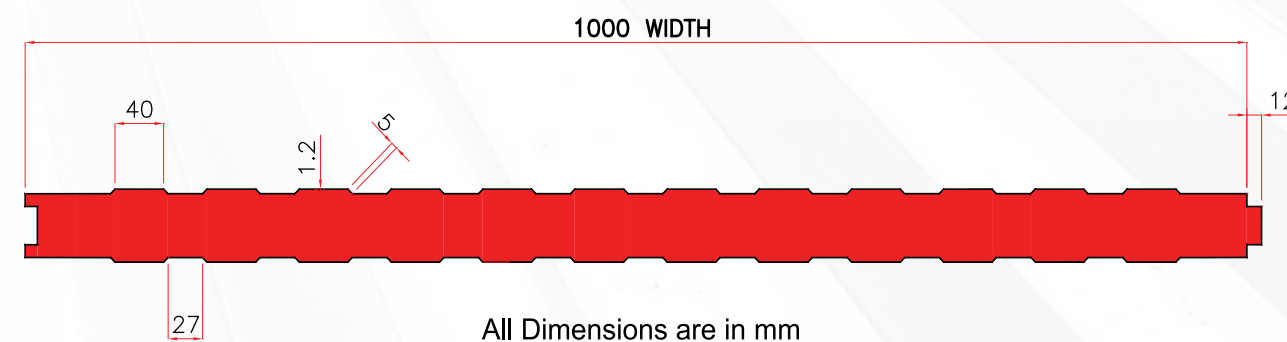


**ATI 45/150**



## Product Specifications

### COMPOSITE PANEL - ATI FLAT



### General Specifications

- ✚ Mechanical properties of PU Foam (At Overall Density of 35-38 Kgs/M<sup>3</sup>)
  - Tensile Strength : 150 kpa
  - Compression Resistance : 100 kpa
  - Shear resistance : 100 kpa
  - Fire Property : B3 as per DIN 4103  
(B2 upon request)
- ✚ Insulation
  - K-Value (Thermal Conductivity of PU) - 0.022 W/mK (Tolerance +/- 0.002)
- ✚ Water Absorption of PU Foam
  - After 24 Hours : 1.00% of Volume
- ✚ Closed Cell Content : 92% Minimum

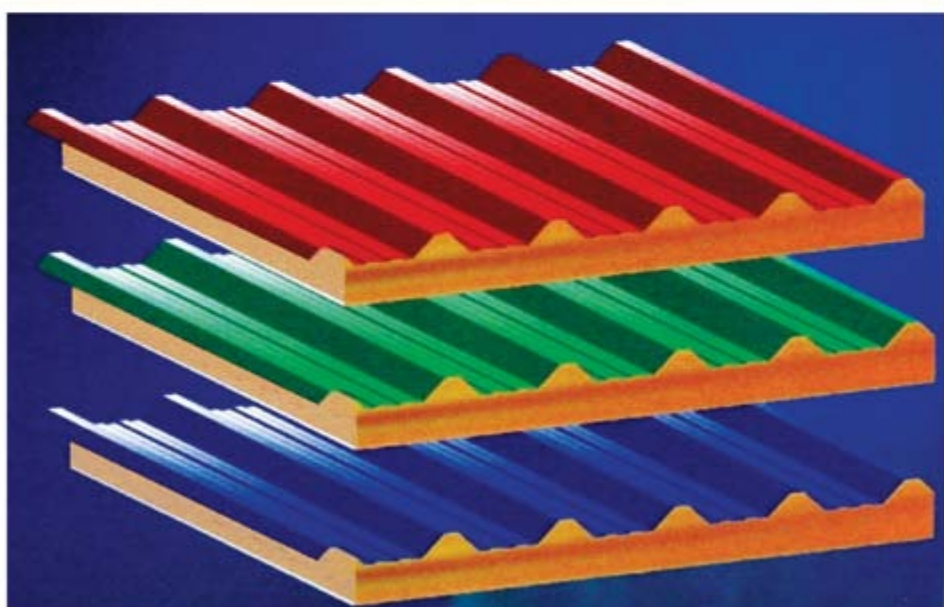
| Pu Thickness in MM(t) | 50   | 80   | 100  | 150  | 200   |
|-----------------------|------|------|------|------|-------|
| U-Value in W/m2 K     | 0.46 | 0.29 | 0.23 | 0.14 | 0.115 |





# Product Specifications

## ROCK WOOL INSULATION CLADDED BY METAL SHEET



### Benefits:

- Low Thermal Conductivity
- Fire Resistance
- Excellent Acoustic Insulation
- CFC, HCFC Free
- Easy to Handle and Installation

Mineral Insulation or Rockwool Insulation is a new product in the market, bonded with metal cladding from both sides permanently. These panels are widely used in Roof and Wall of the shed or porta cabin for its special character of aesthetic look with high performance, efficient and superior fire resistance.

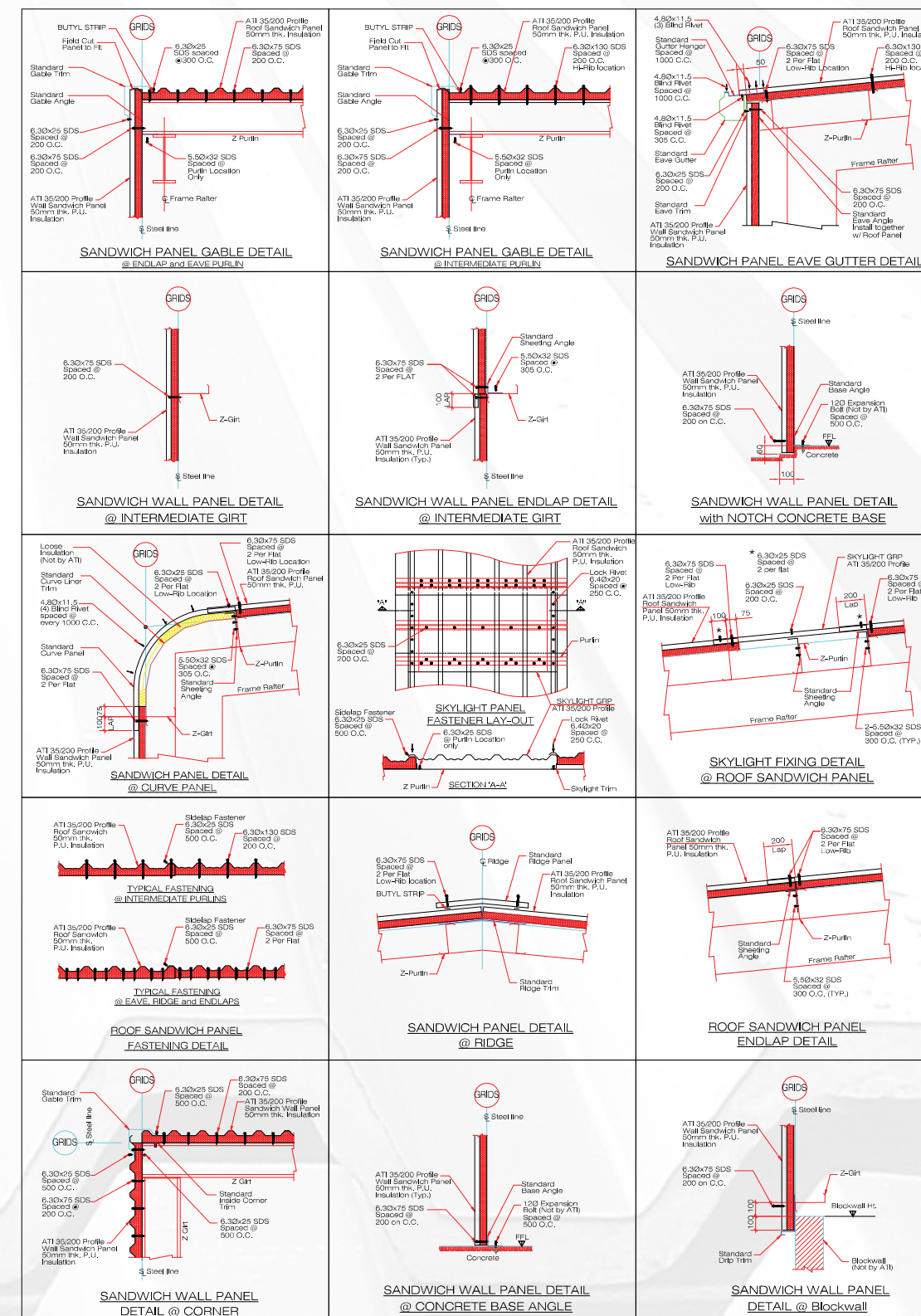
### Thermal Peformance

| Thickness of Insulation Core in mm | U-Value W/m2k |
|------------------------------------|---------------|
| 50                                 | 0.80          |
| 100                                | 0.40          |



# Product Specifications

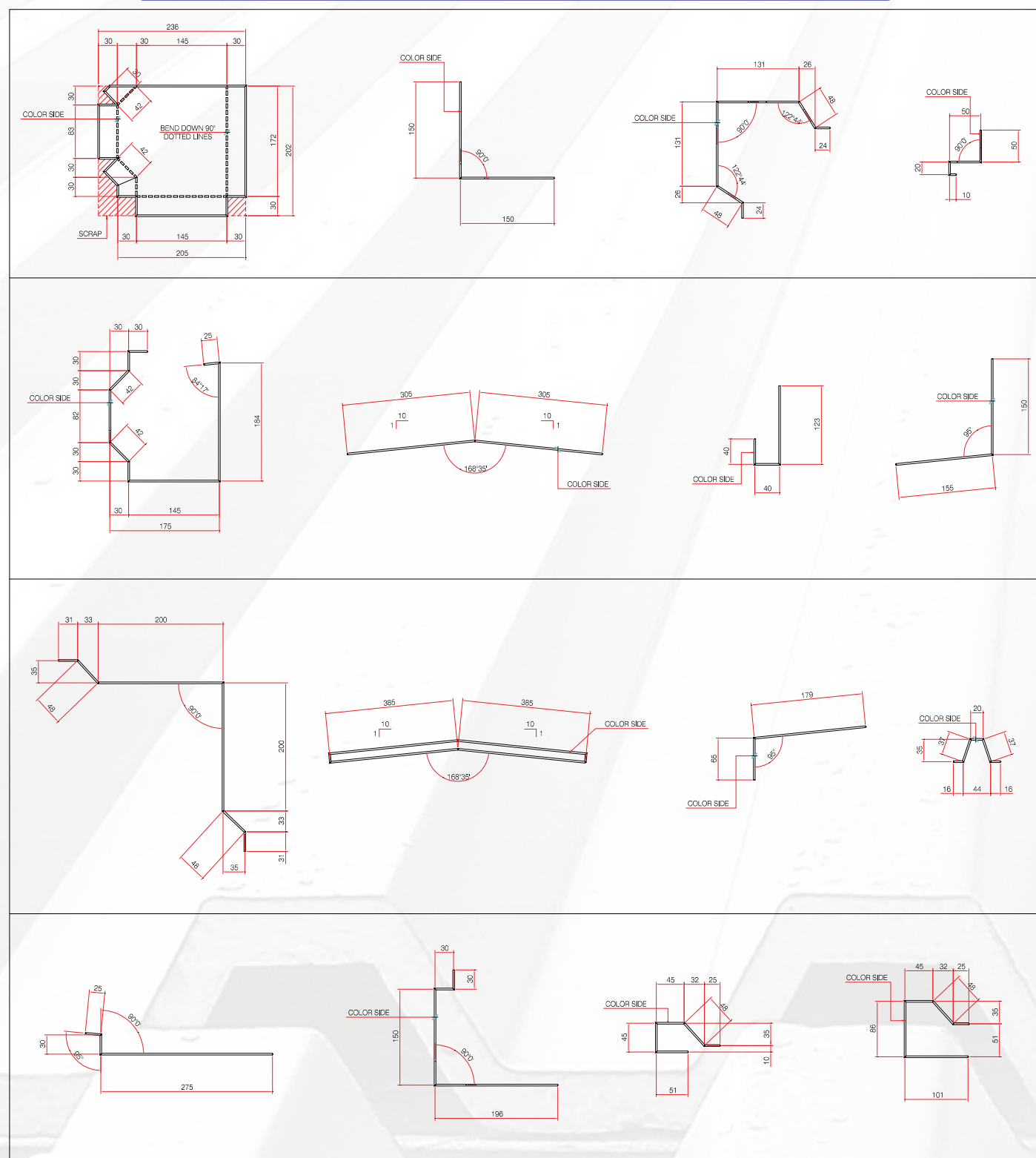
## COMPOSITE PANEL - ERECTION DETAILS





## Product Specifications

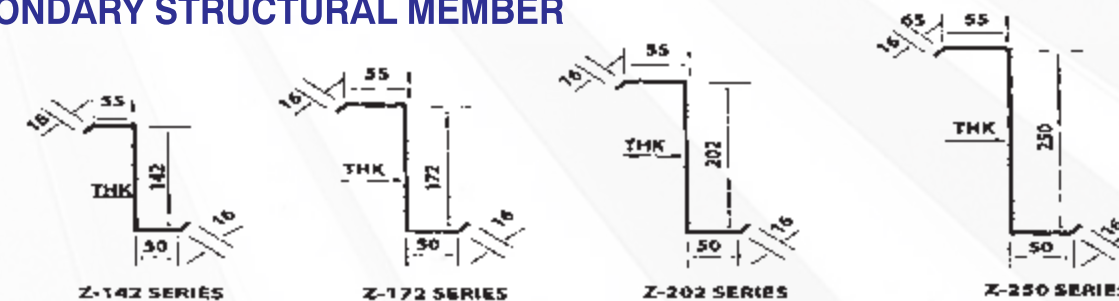
## TRIMS, GUTTER & RIDGE PANEL SHOP DETAILS



**SECONDARY MEMBERS :-** Purlins, Girts, Eaves Strut, Fascia channels shall be pre-galvanized cold formed sections conforming to ASTM a 653 Grade D or Equivalent, with minimum YS of 345N/mm<sup>2</sup>(50 ksi)

## ■ Z Section Properties

## SECONDARY STRUCTURAL MEMBER

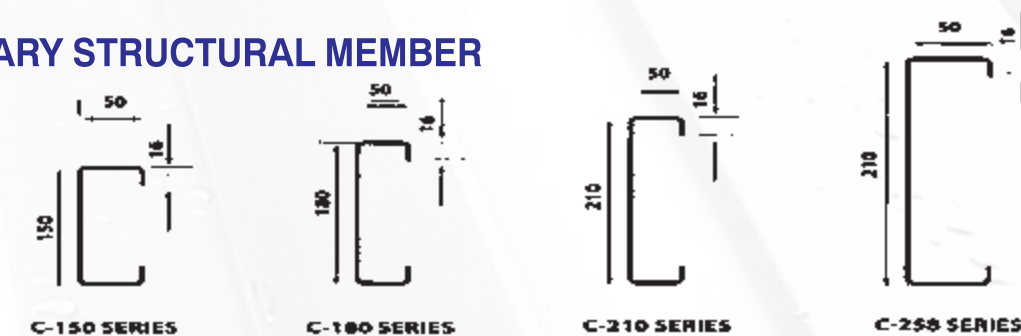


**Non Standard size also available on request**



## ■ C Section Properties

## SECONDARY STRUCTURAL MEMBER



**Non Standard size also available on request**







## Product Specifications

### PROPERTIES "Z" SECTIONS

| Section | Depth<br>D | Thick<br>T | Lip  | Top<br>Flange<br>A | Bottom<br>Flange<br>B | Weight | Area               | Ixx                | Zxx<br>(Top)       | Zyy<br>(Bott.)     | ryy   |
|---------|------------|------------|------|--------------------|-----------------------|--------|--------------------|--------------------|--------------------|--------------------|-------|
|         | (mm)       | (mm)       | (mm) | (mm)               | (mm)                  | (Kg/m) | (cm <sup>2</sup> ) | (cm <sup>4</sup> ) | (cm <sup>3</sup> ) | (cm <sup>3</sup> ) | (mm)  |
| 14215   | 142        | 1.5        | 16   | 55                 | 50                    | 2.95   | 3.57               | 101.7              | 14.64              | 14.04              | 18.81 |
| 14220   | 142        | 2.0        | 16   | 55                 | 50                    | 3.93   | 4.71               | 132.8              | 19.10              | 18.32              | 18.47 |
| 14225   | 142        | 2.5        | 16   | 55                 | 50                    | 4.92   | 5.83               | 162.4              | 23.37              | 22.40              | 18.14 |
| 17215   | 172        | 1.5        | 16   | 55                 | 50                    | 3.59   | 4.32               | 183.8              | 21.74              | 21.01              | 22.64 |
| 17220   | 172        | 2.0        | 16   | 55                 | 50                    | 4.79   | 5.71               | 240.7              | 28.49              | 27.52              | 22.31 |
| 17225   | 172        | 2.5        | 16   | 55                 | 50                    | 5.98   | 7.08               | 295.6              | 34.98              | 33.79              | 21.97 |
| 20215   | 202        | 1.5        | 16   | 55                 | 50                    | 3.93   | 4.77               | 270.4              | 27.20              | 26.36              | 21.55 |
| 20220   | 202        | 2.0        | 16   | 55                 | 50                    | 5.24   | 6.31               | 354.8              | 35.69              | 34.59              | 21.22 |
| 20225   | 202        | 2.5        | 16   | 55                 | 50                    | 6.55   | 7.83               | 436.3              | 43.89              | 42.53              | 20.89 |
| 23215   | 232        | 1.5        | 16   | 76                 | 69                    | 4.78   | 6.02               | 487.09             | 42.73              | 41.28              | 32.70 |
| 23220   | 232        | 2.0        | 16   | 76                 | 69                    | 6.37   | 7.98               | 641.9              | 56.32              | 54.40              | 32.50 |
| 23225   | 232        | 2.5        | 16   | 76                 | 69                    | 7.96   | 9.90               | 790.24             | 69.34              | 66.95              | 32.40 |
| 25015   | 250        | 1.5        | 16   | 55                 | 50                    | 4.79   | 5.71               | 500.9              | 40.59              | 39.56              | 24.74 |
| 25020   | 250        | 2.0        | 16   | 55                 | 50                    | 6.39   | 7.67               | 659.0              | 53.41              | 52.05              | 24.41 |
| 25025   | 250        | 2.5        | 16   | 55                 | 50                    | 7.98   | 9.53               | 812.7              | 65.87              | 64.18              | 24.08 |
| 26220   | 262        | 2.0        | 16   | 80                 | 72                    | 6.90   | 8.72               | 878.0              | 68.33              | 65.89              | 3.31  |
| 26225   | 262        | 2.5        | 16   | 80                 | 72                    | 8.63   | 10.83              | 1083.18            | 84.23              | 81.20              | 3.29  |
| 30225   | 302        | 2.5        | 18   | 90                 | 82                    | 9.79   | 12.47              | 1661.13            | 111.79             | 108.29             | 3.70  |
| 30230   | 302        | 3.0        | 18   | 90                 | 82                    | 11.73  | 14.91              | 1978.11            | 133.12             | 128.95             | 3.68  |
| 34225   | 342        | 2.5        | 18   | 100                | 92                    | 10.97  | 13.97              | 2377.20            | 141.01             | 137.06             | 4.04  |
| 34230   | 342        | 3.0        | 18   | 100                | 92                    | 13.14  | 16.71              | 2823.95            | 137.06             | 163.35             | 4.02  |

PURLINS, GIRTS ARE FORMED FROM STEEL WHICH HAS  
A MINIMUM YIELD STRENGTH OF 345 MPa (50kSI)

### PROPERTIES "C" SECTIONS

| Section | Depth<br>D | Thickness<br>T | Lip  | Flange<br>A | Weight | Area               | Ixx                | Zxx                | Zyy                | ryy   |
|---------|------------|----------------|------|-------------|--------|--------------------|--------------------|--------------------|--------------------|-------|
|         | (mm)       | (mm)           | (mm) | (mm)        | (Kg/M) | (cm <sup>2</sup> ) | (cm <sup>4</sup> ) | (cm <sup>3</sup> ) | (cm <sup>3</sup> ) | (mm)  |
| 15015   | 150        | 1.5            | 16.0 | 50          | 3.59   | 4.21               | 145.2              | 19.36              | 4.61               | 21.50 |
| 15020   | 150        | 2.0            | 16.0 | 50          | 4.79   | 5.57               | 190.1              | 25.35              | 5.95               | 21.30 |
| 15025   | 150        | 2.5            | 16.0 | 50          | 5.98   | 6.90               | 233.4              | 31.12              | 7.20               | 21.00 |
| 18015   | 180        | 1.5            | 16.0 | 50          | 3.59   | 4.21               | 187.1              | 20.79              | 2.99               | 15.50 |
| 18025   | 180        | 2.0            | 16.0 | 50          | 4.79   | 5.57               | 244.9              | 27.22              | 3.83               | 15.30 |
| 18025   | 180        | 2.5            | 16.0 | 50          | 5.98   | 6.90               | 300.5              | 33.39              | 4.60               | 15.00 |
| 21015   | 210        | 1.5            | 16.0 | 50          | 3.93   | 4.66               | 272.8              | 35.98              | 3.03               | 15.10 |
| 21020   | 210        | 2.0            | 16.0 | 50          | 5.24   | 6.17               | 357.7              | 34.06              | 3.88               | 14.80 |
| 21025   | 210        | 2.5            | 16.0 | 50          | 6.55   | 7.65               | 439.6              | 41.86              | 4.66               | 14.60 |
| 25815   | 258        | 1.5            | 16.0 | 50          | 4.79   | 5.83               | 528.5              | 40.97              | 4.87               | 19.80 |
| 25820   | 258        | 2.0            | 16.0 | 50          | 6.39   | 7.73               | 695.3              | 53.90              | 6.29               | 19.50 |
| 25825   | 258        | 2.5            | 16.0 | 50          | 7.98   | 9.60               | 857.5              | 66.47              | 7.61               | 19.30 |

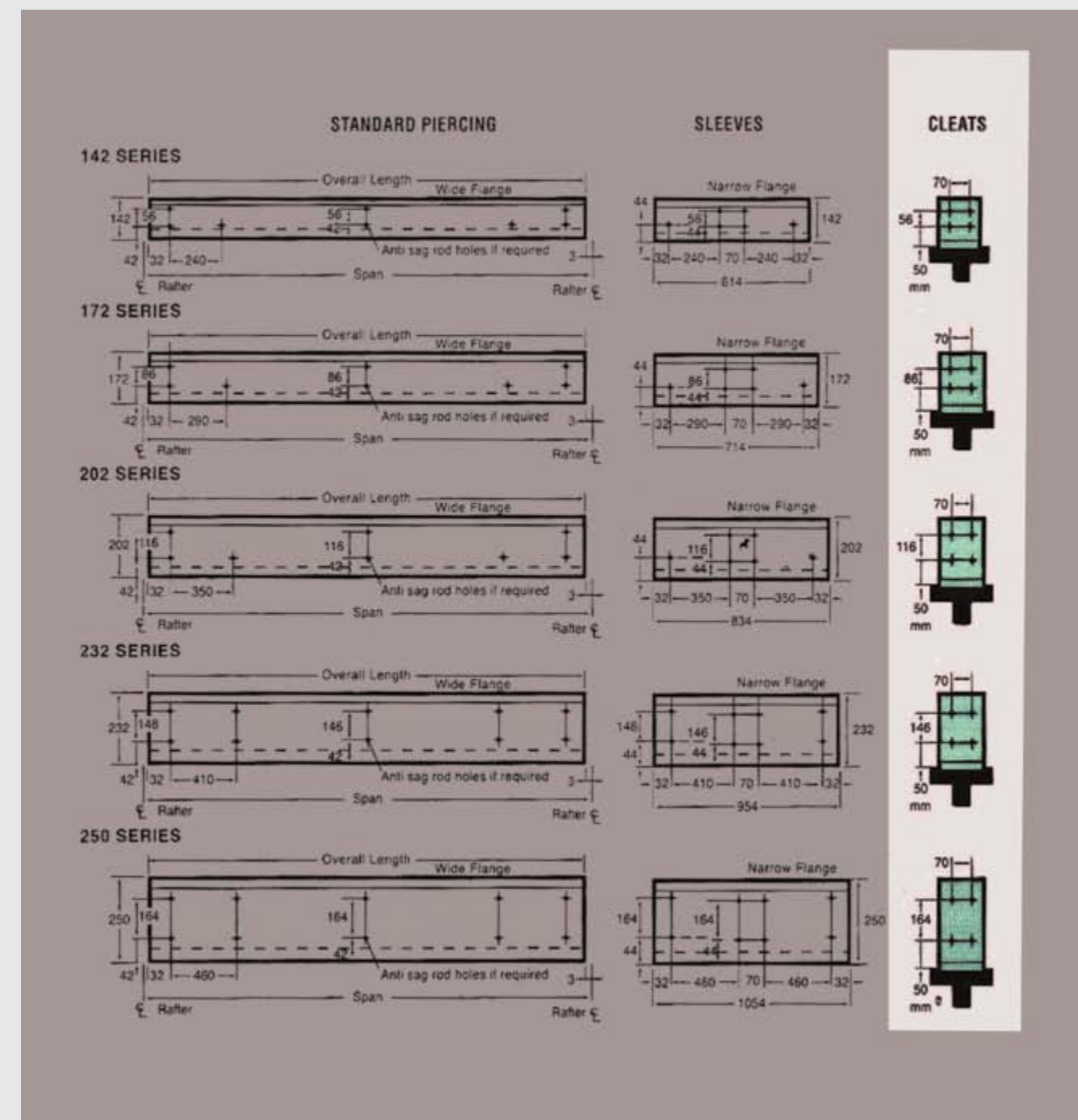
PURLINS, GIRTS ARE FORMED FROM STEEL WHICH HAS  
A MINIMUM YIELD STRENGTH OF 345 MPa (50kSI)



## Product Specifications

### TYPICAL SLEEVED SYSTEM PURLINS

All Holes are 14mm Dia unless specified. All dimensions in millimeters







Raw Material

RAW MATERIALS USED:

Raw material used that are listed below are normally subject to every thorough chemical and physical checking before it is approved to be used for production :

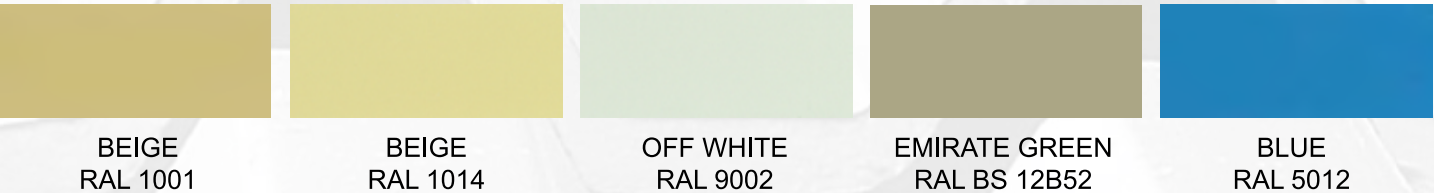
- Different gauges of pre-painted pretreated galvanized iron G.I. coil.
Different gauges of pre-painted pretreated aluminium coil.
Polyol material for the manufacture of polyurethane including the additives.
Polyisocynates material for the manufacture of polyurethane.
Reinforced craft paper backed aluminium foil.

PHOTOS OF CHEMICAL DRUMS AND COIL WITH THE STANDARD COIL COLOURS



COLOUR CHART

STANDARD COLORS



DESIGN DATA

Table with 13 columns: Purlin Span (m), Purlin C/C (m), Z-Purlin Sections (14215, 14220, 17215, 17220, 20215, 20220, 25015, 25020), and 12 unlabeled columns for stress values.

Table with 13 columns: Purlin Span (m), Purlin C/C (m), Z-Purlin Sections (14215, 14220, 17215, 17220, 20215, 20220, 25015, 25020), and 12 unlabeled columns for stress values.

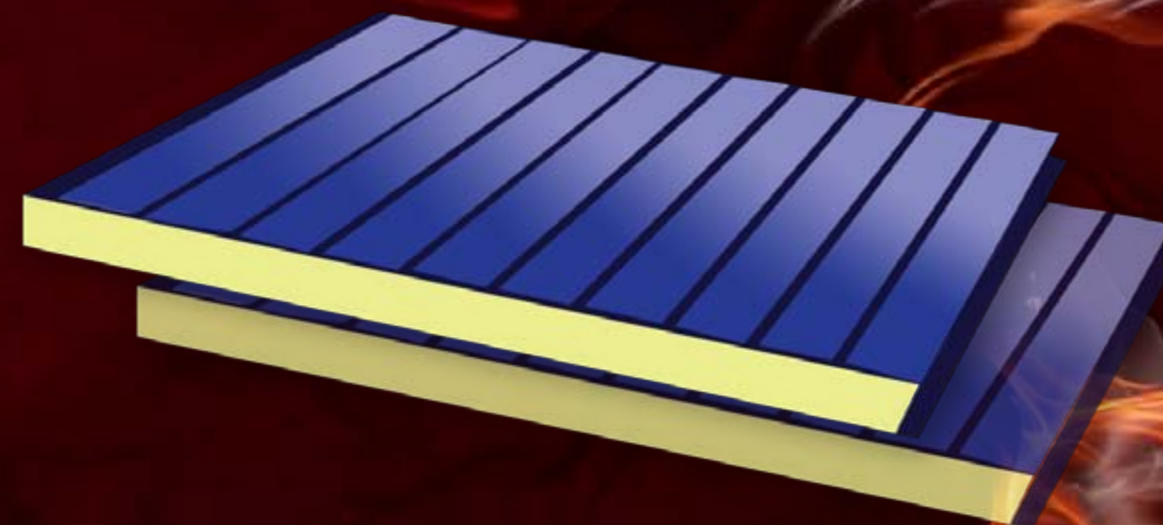




## Raw Material

### NON STANDARD COLORS

|                            |                               |                                |                              |                                |
|----------------------------|-------------------------------|--------------------------------|------------------------------|--------------------------------|
|                            |                               |                                |                              |                                |
| JAUNE SABLE<br>RAL 1002    | JAUNE DE SECURITE<br>RAL 1003 | JAUNE OR<br>RAL 1004           | JAUNE MIEL<br>RAL 1005       | JAUNE MAIS<br>RAL 1006         |
|                            |                               |                                |                              |                                |
| JAUNE NARCISSE<br>RAL 1007 | JAUNE DAHLIA<br>RAL 1033      | JAUNE PASTEL<br>RAL 1034       | JAUNE SOLEIL<br>RAL 1037     | ORANGE PASTEL<br>RAL 2003      |
|                            |                               |                                |                              |                                |
| ROUGE FEU<br>RAL 3000      | ROUGE CARMIN<br>RAL 3002      | VIEUX ROSE<br>RAL 3014         | ROSE CLAIR<br>RAL 3015       | LILAS ROUGE<br>RAL 4001        |
|                            |                               |                                |                              |                                |
| LILAS BLEU<br>RAL 4005     | TELE MEGENTA<br>RAL 4010      | BLEU VIOLET<br>RAL 5000        | BLEU OUTREMER<br>RAL 5002    | BLEU AZUR<br>RAL 5009          |
|                            |                               |                                |                              |                                |
| BLEU CIEL<br>RAL 5015      | BLEU TURQUOISE<br>RAL 5018    | VERT PATINE<br>RAL 6000        | VERT FEUILLAGE<br>RAL 6002   | VERT MOUSSE<br>RAL 6005        |
|                            |                               |                                |                              |                                |
| VERT NOIR<br>RAL 6012      | VERT BLANC<br>RAL 6019        | VERT SIGNALISATION<br>RAL 6024 | TURQUOISE PASTEL<br>RAL 6034 | GRIS PETIT-GRIS<br>RAL 7000    |
|                            |                               |                                |                              |                                |
| GRIS SOURIS<br>RAL 7005    | GRIS FER<br>RAL 7011          | GRIS SILEX<br>RAL 7032         | GRIS CLAIR<br>RAL 7035       | TELEGRIS 2<br>RAL 7046         |
|                            |                               |                                |                              |                                |
| BLANC CREME<br>RAL 9001    | NOIR FONCE<br>RAL 9005        | ALUMINIUM BLANC<br>RAL 9006    | NOIR GRAPHITE<br>RAL 9011    | NOIR SIGNALISATION<br>RAL 9017 |



**100%**  
*Fire **Rated***  
*Rock Wool **Panel***

*Mineral Wool Composite Panels*

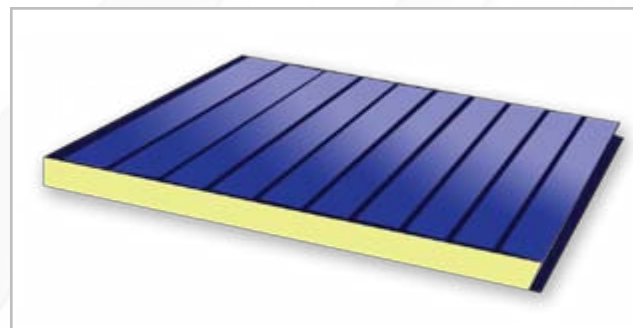




## Rock wool panel

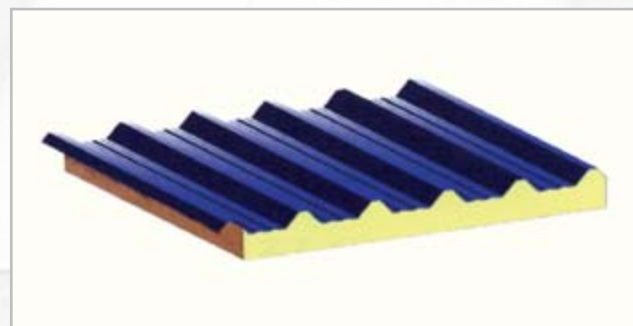
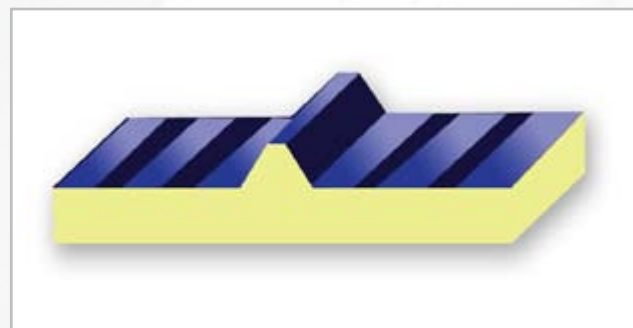
### Wall / Partition Panel

**COIL WIDTH :** 1070 / 1070  
**PRODUCT WITH :** 1000mm  
**LENGTH MAX :** 12000 mm T  
**HICKNESS:** 50,80,100mm  
**COIL THICKNESS:** 0.4-0.7mm



### Roof Panel — Profile 34.5/250

**COIL WIDTH :** 1219 / 1070  
**PRODUCT WITH :** 1000mm  
**LENGTH MAX :** 12000 mm  
**THICKNESS :** 50,80,100mm  
**COIL THICKNESS :** 0.4-0.7mm  
**PROFILE :** 34.5/250



Al Awazil rockwool panel is stress skin sandwich panel with metal facings bonded to mineral wool core. Panel is mainly used for Roof, wall and Partition applications. Our panel is developed to meet specific demand of composite panel with high performance such as efficient and superior fire resistance. Al Awazil panel has been specially developed for use in commercial and industrial light weight cladding applications to satisfy the thermal, fire and acoustic requirements of roof, walls & partitions. Al Awazil Panel is manufactured in a variety of thickness to suit the cladding needs of any framed buildings.

Rockwool! does not burn like plastic foams, polystyrene and polyurethane foam. Al Awazil panels made with rock wool and steel facing are completely inorganic.

Rockwool panels have an extensive history in Europe and America, Al Awazil fire rated panel is an exiting new product in the Gulf region. As building owners and designers become more aware of non-combustible sandwich panels, the applications of rock wool panels also have grown rapidly in recent times. Al Awazil fire panels are non combustible and capable of resisting fire up to two (2) hours.

### Advantages

- > Perfect Fire resistance with A1 grade (EN 13501 - 1) inflammable mineral rockwool
- > Heat insulation
- > Perfect acoustic solutions with perforated models
- > Energy saver
- > Economy in construction cost
- > Requires less joint splice as a result of continuous production
- > Custom designed production with continious process
- > Easy installation
- > Color variety
- > Long life cycle
- > Enviroment friendly product
- > Foam, CC, HCFC free
- > Non-combustible

### Benefit of Al Awazil fire panel

- > Low thermal conductivity
- > Easy io handle
- > Fire resistance
- > Noise Protection
- > Easy to Install

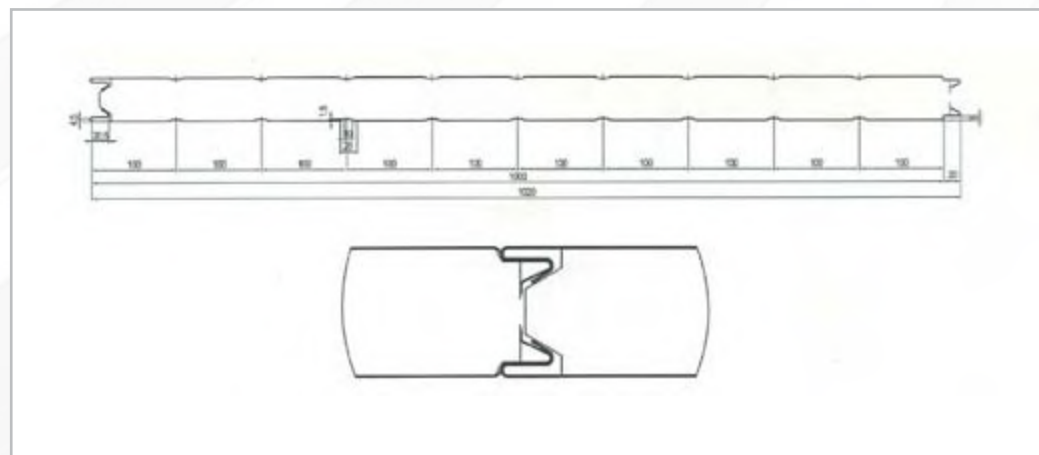
### Thermal performance

| Insulation Core Thickness (mm) | U-Value W / m <sup>2</sup> K |
|--------------------------------|------------------------------|
| 50                             | 0.72                         |
| 80                             | 0.47                         |
| 100                            | 0.38                         |
| 150                            | 0.26                         |



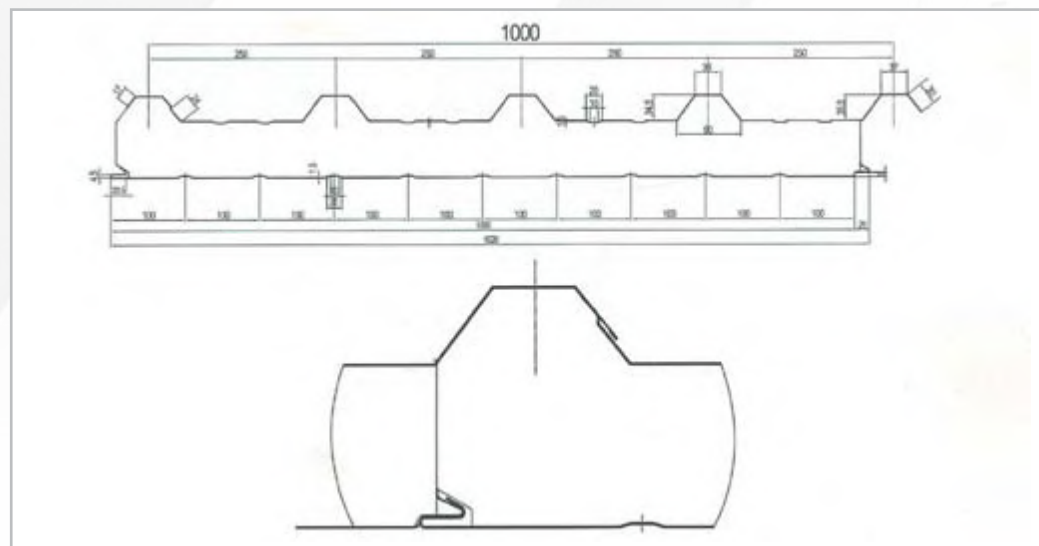


## Al Awazil Panel Wall/Partition



Detail "Joint"

## Al Awazil Panel Roof



Detail "Joint"

## Projects







## Projects

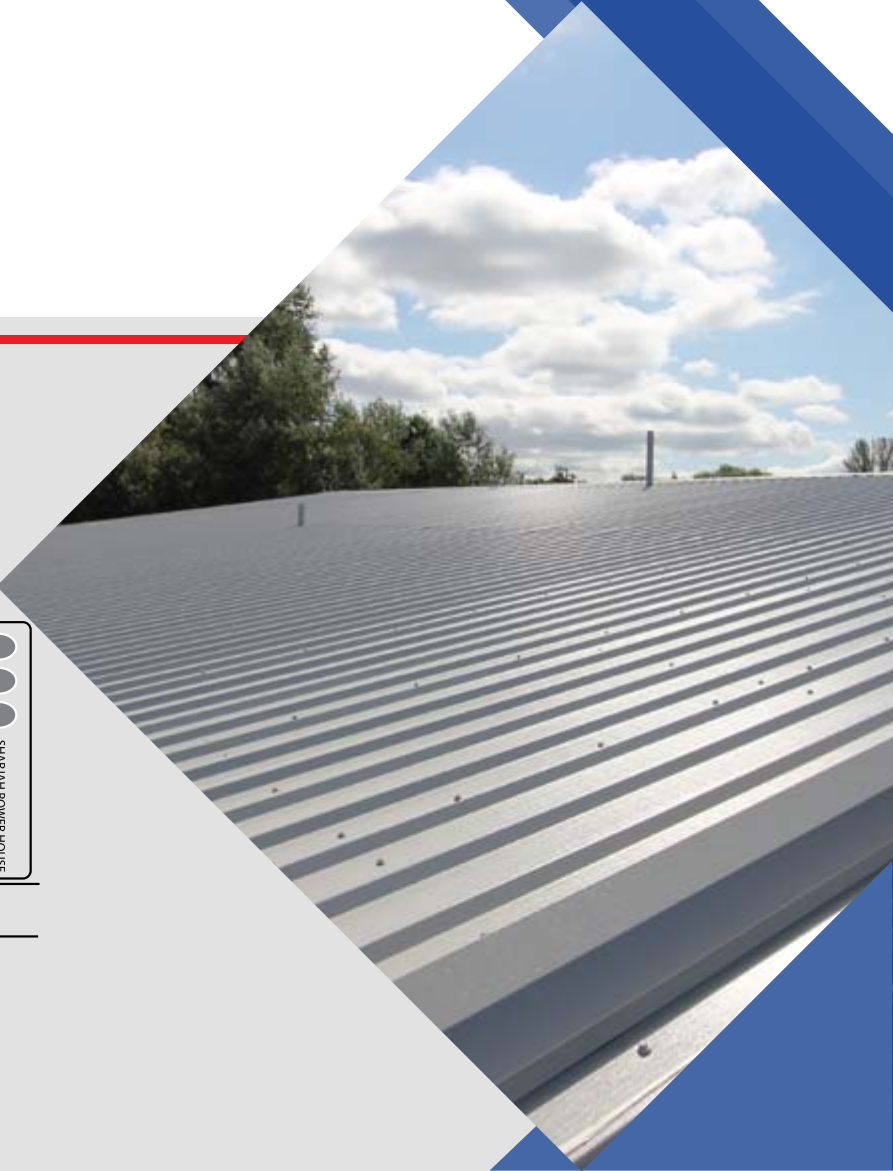
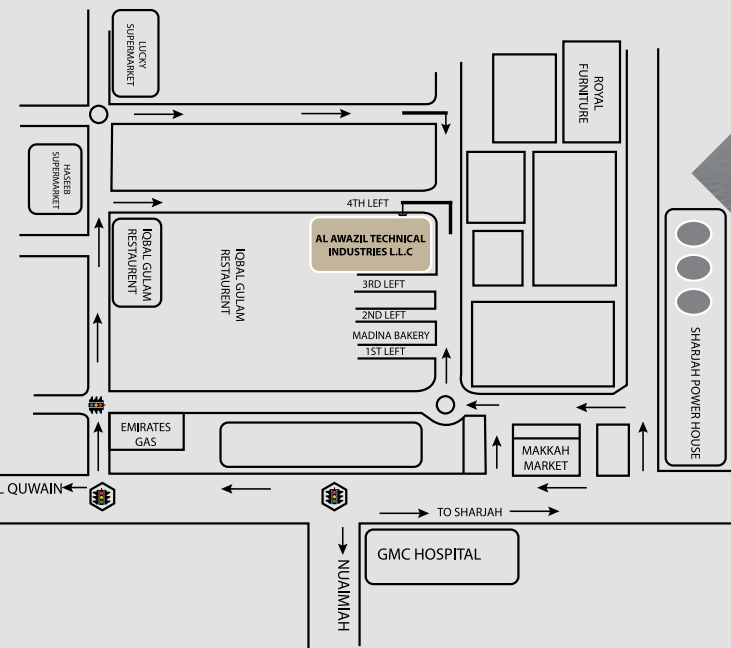


## Certificates





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