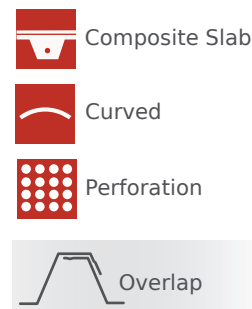
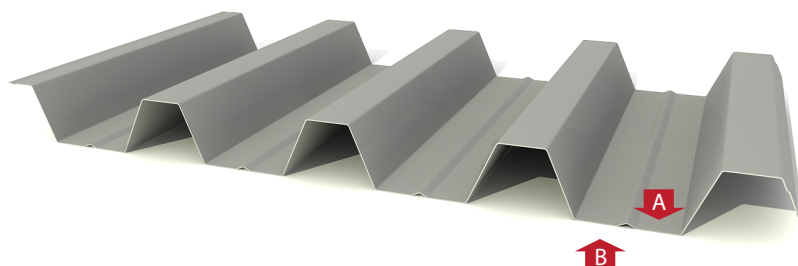


## Product



Working Length: 840 mm  
Height Profile: 70 mm

## Description

The INCO 70.4 profile is used both for roofs and facades (simple or sandwich) as roofs for industrial buildings, shopping centers, sports facilities, etc. As an internal support for the enclosure, it can reach spans of up to 5 m. It is a highly resistant profile thanks to the design of its geometry with a fret height of 70 mm. This profile can be curved (with load-bearing capacity) for use as a resistant element for self-supporting curved roofs.

It is available both in galvanized and in the different pre-lacquered colors. Also for acoustic improvement applications it can be made with perforated steel.

## Applications

- Industrial: hangars, plants, water tanks.
- Agricultural: stables, sheds.
- Commercial: open spaces, sport, walled.
- Public: schools, gymnasium, pavilions.

## Complementary Articles

- INCOLUX 70.4 (Skylight of Polyester)
- Tight Joint INCO 70.4 Upper/ Lower
- Trimming

## Related Documents

- General Catalogue
- Technical Sheet
- Technical Dossier
- Declaration of Performance (DDP / DOP)

## Material

|                       |          |
|-----------------------|----------|
| Steel                 | EN 10346 |
| Organic Coating       | EN 10169 |
| Dimensional Tolerance | EN 10346 |
| Reaction to Fire      | EN 14782 |

## Finishing

- Galvanized
- Standard Organic Coating / High Organic Coating
- Specialty Materials: Corten Steel and Magnelis
- Perforated for Acoustic Solutions

## Manufacturing Conditions

|                      |                                            |
|----------------------|--------------------------------------------|
| Manufacturing Length | Min. / Max. 2.000 / 14.000 mm              |
| Thickness Range      | 0,60   0,70   0,75   0,80   1,00   1,20 mm |
| Minimal Order        | 250 m <sup>2</sup>                         |
| Package Weight       | 1.500-2.000 kg                             |
| Colour               | White RAL 9003. Other on demand            |
| Colour Position      | A                                          |

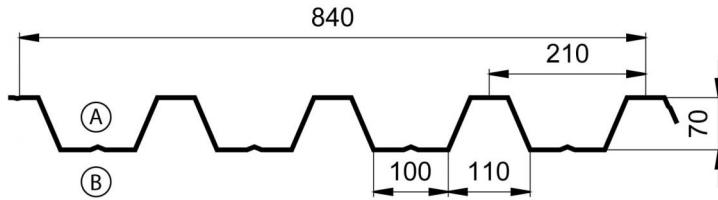
## Transport Conditions

| Thickness(mm) | Surface* (m <sup>2</sup> ) | Thickness(mm) | Surface* (m <sup>2</sup> ) |
|---------------|----------------------------|---------------|----------------------------|
| 0,60          | 3.100                      | 0,80          | 2.300                      |
| 0,70          | 2.600                      | 1,00          | 1.800                      |
| 0,75          | 2.500                      | 1,20          | 1.500                      |

\* estimated area depending on cutting length

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### Dimensions



Eff. Width: 840 mm

Dim. in mm

### Material characteristics

|                                         |         |
|-----------------------------------------|---------|
| Material                                | Steel   |
| Yield Strength (N/mm <sup>2</sup> )     | 220     |
| Elasticity Modulus (N/mm <sup>2</sup> ) | 210.000 |
| Density (Kg/m <sup>3</sup> )            | 7.850   |

### Roof Parameters

|                             |                       |
|-----------------------------|-----------------------|
| End Left-Right              | supported - supported |
| Position                    | horizontal            |
| Width of Supports (mm)      | 10                    |
| Extreme Supports Width (mm) | 10                    |

### Section values

| Thickness (mm) | Weight (daN/m <sup>2</sup> ) | Effective Area (mm <sup>2</sup> /m) | M. Inertia (mm <sup>4</sup> /m) |             |             | Section Modulus (mm <sup>3</sup> /m) |             |
|----------------|------------------------------|-------------------------------------|---------------------------------|-------------|-------------|--------------------------------------|-------------|
|                |                              |                                     | Gross                           | Effective + | Effective - | Effective +                          | Effective - |
| 0,60           | 7,00                         | 893                                 | 633.077                         | 553.003     | 462.532     | 12.195                               | 9.857       |
| 0,70           | 8,17                         | 1.042                               | 738.725                         | 673.258     | 592.251     | 16.254                               | 13.134      |
| 0,80           | 9,34                         | 1.190                               | 844.414                         | 790.899     | 778.881     | 19.159                               | 18.404      |
| 1,00           | 11,68                        | 1.488                               | 1.055.919                       | 1.029.987   | 1.055.919   | 24.498                               | 25.899      |
| 1,20           | 14,01                        | 1.786                               | 1.267.596                       | 1.267.597   | 1.267.597   | 29.834                               | 31.038      |

### Load Tables

Live Load (daN/m<sup>2</sup>)

| Thickness (mm) | Maximum Span Length (m) |           |           |           |          |          |          |          |          |         | 1 Span $\Delta$ |
|----------------|-------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|---------|-----------------|
|                | 3,50                    | 3,75      | 4,00      | 4,25      | 4,50     | 4,75     | 5,00     | 5,25     | 5,50     | 5,75    | 6,00            |
| 0,60           | 104 / 83                | 84 / 72   | 68 / 62   | 56 / 54   | 46 / 48  | 38 / 42  | 32 / 38  | 26 / 33  | 22 / 30  | 18 / 26 | 16 / 24         |
| 0,70           | 125 / 112               | 100 / 97  | 81 / 84   | 67 / 73   | 55 / 65  | 45 / 57  | 38 / 51  | 32 / 45  | 27 / 41  | 22 / 37 | 19 / 33         |
| 0,80           | 145 / 159               | 116 / 138 | 94 / 120  | 77 / 105  | 64 / 93  | 53 / 82  | 44 / 74  | 37 / 66  | 31 / 59  | 26 / 54 | 22 / 48         |
| 1,00           | 185 / 225               | 149 / 195 | 121 / 170 | 99 / 149  | 81 / 132 | 67 / 117 | 56 / 105 | 47 / 94  | 39 / 85  | 33 / 77 | 28 / 69         |
| 1,20           | 225 / 270               | 181 / 233 | 147 / 204 | 120 / 179 | 99 / 158 | 83 / 141 | 69 / 126 | 57 / 113 | 49 / 101 | 41 / 92 | 34 / 83         |

| Thickness (mm) | Maximum Span Length (m) |           |           |           |           |           |           |          |         |         | 2 Span $\Delta \Delta$ |
|----------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|---------|------------------------|
|                | 3,50                    | 3,75      | 4,00      | 4,25      | 4,50      | 4,75      | 5,00      | 5,25     | 5,50    | 5,75    | 6,00                   |
| 0,60           | 55 / 104                | 49 / 90   | 44 / 78   | 39 / 68   | 35 / 60   | 32 / 54   | 28 / 48   | 26 / 42  | 23 / 38 | 21 / 34 | 19 / 31                |
| 0,70           | 75 / 139                | 67 / 121  | 60 / 105  | 53 / 92   | 48 / 81   | 43 / 73   | 39 / 65   | 36 / 58  | 33 / 52 | 29 / 47 | 27 / 43                |
| 0,80           | 104 / 165               | 92 / 143  | 83 / 124  | 74 / 109  | 67 / 96   | 61 / 86   | 56 / 77   | 50 / 69  | 46 / 62 | 42 / 56 | 39 / 51                |
| 1,00           | 155 / 211               | 137 / 183 | 123 / 159 | 111 / 140 | 100 / 124 | 91 / 110  | 83 / 98   | 75 / 88  | 69 / 79 | 63 / 72 | 58 / 65                |
| 1,20           | 200 / 258               | 178 / 223 | 159 / 195 | 143 / 171 | 129 / 151 | 116 / 135 | 105 / 120 | 96 / 108 | 88 / 97 | 81 / 88 | 74 / 79                |

| Thickness (mm) | Maximum Span Length (m) |           |           |           |           |           |           |           |           |          | 3 Span $\Delta \Delta \Delta$ |
|----------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-------------------------------|
|                | 3,50                    | 3,75      | 4,00      | 4,25      | 4,50      | 4,75      | 5,00      | 5,25      | 5,50      | 5,75     | 6,00                          |
| 0,60           | 67 / 130                | 60 / 113  | 54 / 98   | 48 / 87   | 43 / 77   | 39 / 68   | 36 / 61   | 32 / 55   | 30 / 49   | 27 / 44  | 25 / 40                       |
| 0,70           | 92 / 175                | 82 / 152  | 73 / 133  | 66 / 117  | 59 / 103  | 54 / 92   | 49 / 83   | 45 / 74   | 41 / 67   | 37 / 61  | 35 / 55                       |
| 0,80           | 126 / 208               | 112 / 180 | 101 / 158 | 91 / 138  | 82 / 123  | 75 / 109  | 68 / 98   | 63 / 88   | 58 / 80   | 53 / 72  | 49 / 66                       |
| 1,00           | 187 / 267               | 167 / 231 | 150 / 202 | 135 / 177 | 123 / 157 | 111 / 140 | 102 / 125 | 93 / 113  | 85 / 102  | 73 / 92  | 63 / 84                       |
| 1,20           | 243 / 325               | 217 / 282 | 194 / 246 | 175 / 217 | 158 / 192 | 143 / 171 | 131 / 153 | 119 / 138 | 103 / 125 | 89 / 113 | 77 / 103                      |

Calculation of Bending, Shear, dent, Deflection (L/ 200)

### Calculus Notes

v20.04.01

Actions Combination:

ELU<sub>Down</sub>: Q = 1,35 \* Own Load + 1,50 \* Live Load

ELS<sub>Down</sub>: Q = 1,00 \* Own Load + 1,00 \* Live Load

ELU<sub>Up</sub>: Q = 0,80 \* Own Load - 1,50 \* Wind

Note: the r

Normative:

UNE-EN 1993-1-3 Eurocode 3 Part 1-3

