

## Metallic Coated - MC

## Structural – S

### GENERAL DESCRIPTION

TRUECORE® G550 steel is a hot-dipped zinc-aluminium 55% alloy-coated structural steel with coating mass of minimum 150 g/m<sup>2</sup>. It has green tinted resin. and specifically designed for the residential house truss and framing market

### TYPICAL USES

Residential house trusses and framings

### STANDARDS

Certified Standards –  
Reference Standards –

TIS. 2228-2565  
JIS G3321-2010,  
AS 1397-2021, AS 1365-1996  
ASTM A 792-2010

### GUARANTEED PROPERTIES OF STEEL BASE

| MECHANICAL PROPERTIES            | GUARANTEED MINIMUM |
|----------------------------------|--------------------|
| Yield Strength, MPa              | 550                |
| Tensile Strength, MPa            | 550                |
| Elongation on 50mm (≥ 0.60mm), % | 2                  |

### CHEMICAL COMPOSITION OF STEEL BASE

| CHEMICAL PROPERTIES | GUARANTEED MAX % |
|---------------------|------------------|
| Carbon - C          | 0.20             |
| Phosphorus - P      | 0.04             |
| Manganese – Mn      | 1.20             |
| Sulphur - S         | 0.03             |

### METAL COATING ADHESION – 180° BEND TEST

| COATING CLASS | COATING ADHESION |
|---------------|------------------|
| AZ150         | 2t               |

Where t = the diameter of mandrel in terms of thickness of product.

### FIRE HAZARD PROPERTIES

| INDEX                 | RANGE | RESULT |
|-----------------------|-------|--------|
| Ignitability Index    | 0-20  | 0      |
| Spread Of Flame Index | 0-10  | 0      |
| Heat Evolved Index    | 0-10  | 0      |
| Smoke Developed Index | 0-10  | 0-1    |

### DIAMENSIONAL CAPABILITIES

| THICKNESS RANGES (mm) | MAX. WIDTH (mm) |
|-----------------------|-----------------|
| 0.40-1.00             | 1220            |

Notes: These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office.

### NORMAL/OPTIONAL SUPPLY CONDITIONS

|                   | NORMAL                             | OPTIONAL |
|-------------------|------------------------------------|----------|
| Coating Class     | AZ150                              |          |
| Surface Condition | Spangled                           |          |
| Surface Treatment | Passivated & Green<br>Resin coated |          |
| Branding          | Branded                            |          |

#### Important Notes

Optional supply conditions may be subject to dimensional restrictions

### FABRICATING PERFORMANCE

| METHOD       | RATING | METHOD                | RATING |
|--------------|--------|-----------------------|--------|
| Bending      | 1      | Lock Forming          | NR     |
| Drawing      | NR     | Welding               | 4      |
| Pressing     | NR     | Painting Pretreatment | NR     |
| Roll Forming | 3      |                       |        |

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

#### IMPORTANT INFORMATION

Typical mechanical properties are based on typical product despatched to customers. Note that ductility will decline through a natural ageing process during storage and/or paint stoving cycle. Material should be used promptly (within six months) to avoid the possibility of a storage related corrosion. For selection of the most appropriate metallic coated steel, please refer to technical bulletins TB-1a, TB-1b, CTB-21 and CTB-22. For storage, rollforming lubricants and other information please refer to the Technical Bulletins.

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