**Construction Metal/Metal Fabricator Typical Marking Criteria**

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| --- | --- | --- | --- | --- | --- |
| **Aspect ID** | **Description** | **Tolerance/****Requirement** | **Max Mark** |  | **Mark Awarded** |
|  | **Gusset Brackets** |  |  |
| **Gusset Brackets** |  |  |
| **Bracket 1** |  |  |
| A1 | Overall Length – 180mm  | (+/- 1.0mm) | 1.0 |  |  |
| A2 | Overall height – 96mm  | (+/- 1.0mm) | 1.0 |  |  |
| A3 | Overall height – 68mm  | (+/- 1.0mm) | 1.0 |  |  |
| A4 | Internal cut-out dimension - 40mm top and bottom (0.5 Mark each) | (+/- 1.0mm) | 1.0 |  |  |
| A5 | Internal cut-out dimension – 55mm left and right (0.5 Mark each) | (+/- 1.0mm) | 1.0 |  |  |
| A6 | Internal cut-out dimension - 80mm  | (+/- 1.0mm) | 0.5 |  |  |
| A7 | Internal cut-out dimension - 55mm  | (+/- 1.0mm) | 0.5 |  |  |
| A8 | Internal cut-out dimension - 34mm  | (+/- 1.0mm) | 0.5 |  |  |
| A9 | Angle of slope - 75°  | (+/- 1°) | 1.0 |  |  |
| **Bracket 2** |  |  |
| A10 | Overall Length – 180mm  | (+/- 1.0mm) | 1.0 |  |  |
| A11 | Overall height – 96mm  | (+/- 1.0mm) | 1.0 |  |  |
| A12 | Overall height – 68mm  | (+/- 1.0mm) | 1.0 |  |  |
| A13 | Internal cut-out dimension - 40mm top and bottom (0.5 Mark each) | (+/- 1.0mm) | 1.0 |  |  |
| A14 | Internal cut-out dimension – 55mm left and right (0.5 Mark each) | (+/- 1.0mm) | 1.0 |  |  |
| A15 | Internal cut-out dimension - 80mm  | (+/- 1.0mm) | 0.5 |  |  |
| A16 | Internal cut-out dimension - 55mm  | (+/- 1.0mm) | 0.5 |  |  |
| A17 | Internal cut-out dimension - 34mm  | (+/- 1.0mm) | 0.5 |  |  |
| A18 | Angle of slope - 75°  | (+/- 1°) | 1.0 |  |  |
|  |  | **Max possible Marks** | **15** |  |  |

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| **Aspect ID** | **Description** | **Tolerance/****Requirement** | **Max Mark** |  | **Mark Awarded** |

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| --- | --- | --- |
| **Quality of Thermal Cutting** |  |  |
| **Bracket 1** |  |  |
|  B1 | Does not meet expected industry standard – e.g., cut with slag attached, drag lines elongated on the cut, melting of the top edge or edges have been ground/filed = 0 mark | 3.0 |  |  |
| Below expected industry standard – e.g., clean cut with less than 50% slag attached, min elongated drag lines on the cut, less than 50% melted top edges, min (85o) edge cut of surface = 0.5 mark |  |  |
| Meets industry expected standard – e.g., good clean cut with less than 25% slag attached, parallel drag lines of cut, less than 25% top edges square (85o) edges of cut surface = 1.0 marks |  |  |
| Above expected industry standard - excellent clean cut with no slag attached, parallel drag lines of cut, no melted top edges, square (900) edges of cut surface = 1.5 marks |  |  |
| **Bracket 2** |  |  |
|  B2 | Does not meet expected industry standard – e.g., cut with slag attached, drag lines elongated on the cut, melting of the top edge or edges have been ground/filed = 0 mark |  |  |  |
| Below expected industry standard – e.g., clean cut with less than 50% slag attached, min elongated drag lines on the cut, less than 50% melted top edges, min (85o) edge cut of surface = 0.5 mark |  |  |  |
| Meets industry expected standard – e.g., good clean cut with less than 25% slag attached, parallel drag lines of cut, less than 25% top edges square (85o) edges of cut surface = 1.0 marks |  |  |  |
| Above expected industry standard - excellent clean cut with no slag attached, parallel drag lines of cut, no melted top edges, square (900) edges of cut surface = 1.5 marks |  |  |  |
|  | **Max possible Marks** | **3.0** |  |  |
|  C1 |  No additional material taken Each additional item of material taken – DEDUCT 0.5 Marks per item | **2.0** |  |  |

**Summary Marks**

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| --- | --- | --- | --- | --- |
| **Aspect ID** | **Description** | **Max Mark** |  | **Mark Awarded** |
| **A1** | Gusset Brackets | 15 |  |  |
| **B1** | Thermal Cutting | 3 |  |  |
| **C1** | Material | 2 |  |  |
|  |  |  **20** |  |  |