* 1. General Information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Design Code** | **Unit System** |  |  |  |
| **IS456:2000** | N, mm | 25.00MPa | 415MPa | 415MPa |

* 1. Design Load & Support Condition

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Design Load** | | | **Support** | | |
|  |  | **LL** | **Type** | **Left** | **Right** |
| 2.000kN/m² | 1.000kN/m² | 1.000kN/m² | By Others | Fix(1.000) | Fix(1.000) |

* 1. Section

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Thickness** | | | **Length** | | | **Size** | |
| **Stair** | **Landing** | **Cover** | **Landing(L)** | **Landing(R)** | **Stair** | **Height** | **Width** |
| 200mm | 200mm | 20.00mm | 3.000m | 3.000m | 3.000m | 2.000m | 3.000m |



* 1. Check Stair (Section-I)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rebar** | | **Moment(kN·m/mm)** | | | **Shear(kN/mm)** | | |
| **Top** | **Bottom** |  |  | **Ratio** |  |  | **Ratio** |
| P3@150 | P3@300 | -26.21 | 28.25 | OK(0.928) | -15.61 | 106 | OK(0.147) |

* 1. Check Stair (Section-M)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rebar** | | **Moment(kN·m/mm)** | | | **Shear(kN/mm)** | | |
| **Top** | **Bottom** |  |  | **Ratio** |  |  | **Ratio** |
| P3@150 | P3@300 | 13.43 | 14.32 | OK(0.938) | 0.000 | 0.000 | OK(0.000) |

* 1. Check Stair (Section-J)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rebar** | | **Moment(kN·m/mm)** | | | **Shear(kN/mm)** | | |
| **Top** | **Bottom** |  |  | **Ratio** |  |  | **Ratio** |
| P3@150 | P3@300 | -26.21 | 28.25 | OK(0.928) | 15.61 | 106 | OK(0.147) |

* 1. Minimum Traverse Reinforcement (Section- I M J)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Section- I | | Section- M | | Section- J | |
| **Top** | **Bottom** | **Top** | **Bottom** | **Top** | **Bottom** |
| P3@150 | P3@300 | P3@150 | P3@300 | P3@150 | P3@300 |