* MEMBER NAME : S01
  1. General Information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Design Code** | **Unit System** | **Span(X)** | **Span(Y)** | **Thickness** |  |  |
| ACI318M-14 | N, mm | 4.000m | 6.000m | 201mm | 24.00MPa | 400MPa |

* 1. Design Load & Support Condition

|  |  |  |  |
| --- | --- | --- | --- |
| **Dead Load** | **Live Load** | **Slab Type** | **Support Type** |
| 2.000kN/m² | 2.000kN/m² | 2-Way Slab | Support Case-2 |



* 1. Check Thickness & Deflection

|  |  |  |  |
| --- | --- | --- | --- |
| **Check Items** | **Input** | **Criteria** | **Ratio** |
| Required minimum thickness (mm) | 201 | 179 | OK(0.889) |

* 1. Check Moment & Shear Capacity [ Direction X ]

|  |  |  |  |
| --- | --- | --- | --- |
| **Check Items** | **TOP** | **MIDDLE** | **BOTTOM** |
| Bar-1 | #5@450 | #5@450 | #5@450 |
| Bar-2 | #5@450 | #5@450 | #5@450 |
| Bar-3 | #5@450 | #5@450 | #5@450 |
|  | 6.502 | 3.689 | 6.502 |
|  | 9.186 | 0.000 | 9.186 |
|  | 52.59 | 52.59 | 52.59 |
|  | 108 | 108 | 108 |
|  | OK(0.124) | OK(0.0701) | OK(0.124) |
|  | OK(0.0850) | OK(0.000) | OK(0.0850) |

* 1. Check Moment & Shear Capacity [ Direction Y ]

|  |  |  |  |
| --- | --- | --- | --- |
| **Check Items** | **LEFT** | **CENTER** | **RIGHT** |
| Bar-1 | #5@450 | #5@450 | #5@450 |
| Bar-2 | #5@450 | #5@450 | #5@450 |
| Bar-3 | #5@450 | #5@450 | #5@450 |
|  | 2.858 | 1.683 | 2.858 |
|  | 2.623 | 0.000 | 2.623 |
|  | 47.51 | 47.51 | 47.51 |
|  | 98.18 | 98.18 | 98.18 |
|  | OK(0.0601) | OK(0.0354) | OK(0.0601) |
|  | OK(0.0267) | OK(0.000) | OK(0.0267) |