## Exodermic Weight Calculation - Cast-in-place

VT - Richmond Truss

| | | |
|---|---|---|
| Panel length (direction main grid bars) | 21.167 | ft. |
| Panel width | 8.000 | ft. |
| No. of composite beams per panel | 4 | |
| | | |
| Concrete type | Normal weight | |
| Concrete weight | 145 | lbs/cu.ft. |
| Concrete thickness | 5 | in. |
| Top rebar size | 4 | |
| Top rebar spacing | 4 | in. |
| Bottom rebar size | 4 | |
| Bottom rebar spacing | 8 | in. |
| "Haunch" height (see note) | 4.445 | in. (May vary.) |
| "Haunch" width | 8.99 | in. |
| Connection between panels - height | 7.945 | in. |
| Connection between panels - width | 8 | in. |
| Main bar weight | 5 | lbs/lin.ft. |
| Main bar spacing | 12 | in. |
| Distribution bar height | 1.5 | in. |
| Distribution bar thickness | 0.25 | in. |
| Distribution bar spacing | 6 | in. |
| Galv. horiz sheet metal (gauge) | 20 | gauge |

**WEIGHTS**

| | | |
|---|---|---|
| Main bars | 5.0 | lbs./s.f |
| Distribution bars | 2.6 | lbs./s.f |
| Galv. horiz sheet metal | 1.4 | lbs./s.f |
| Weight of Steel Grid | | 8.9 lbs/sf |
| | | |
| Concrete | | 60.4 lbs/sf |
| Rebar | | 3.3 lbs/sf |
| less concrete displaced by steel | | -1.6 lbs/sf |
| **WEIGHT OF EXODERMIC DECK** | | **71.1 lbs/sf** |
| | | |
| Plus additional concrete for full depth "haunch" | | 7.6 lbs/sf |
| less haunch concrete displaced by steel in haunch | | -0.3 lbs/sf |
| Plus additional concrete for connection between panels | | 2.5 lbs/sf |
| | | |
| TOTAL INSTALLED WEIGHT before overlay | | 80.9 lbs/sf |
| TOTAL INSTALLED WEIGHT with overlay if specified | | 105.9 lbs/sf |

Note: The term "haunch" is used here to describe the areas of the deck over beams where the grid is filled full depth.