

Designers' Checklist for STEEL DECK



Composite Floor Deck

- Check fire rating requirements... Designs Dxxx in U.L. (pp. 63 - 65 of our manual). Note on project drawings when the fire rating requires spray fireproofing.
- Check relative costs of lightweight and normal weight concrete. Note: Lightweight concrete can usually fulfill fire rating needs with thinner slabs.
- Check pour stop requirements (p. 61 of our manual).
- Check hanger requirements - for ceilings, ducts, pipes, etc.
- Check maximum unshored spans to select deck gage and pattern. Note: It usually costs less to have unshored construction (pp. 35 - 55 of our manual).
- Check the SDI Construction Loading (p. 30 of our manual). Maximum unshored spans are based on these loading conditions. If additional loading conditions exist and/or buggies or screed machines will be used additional analysis is required.
- Check diaphragm shear and stiffness requirements (pp. 122 - 129 of our manual).



Roof Deck

- Check fire rating requirements... Designs Pxxx in U.L. (p. 23 of our manual). Note on project drawings when the fire rating requires spray fireproofing (typically P7xx and P8xx series).
- Check loads for: 1. snow drifting 2. additional dead load from ballasted roof systems 3. maintenance loads... use SDI criteria (pp. 5 - 16 of our manual).
- Check any other insurance requirements such as Factory Mutual. Note that maximum spans may be reduced to meet FM requirements. Specify the critical perimeter zones.
- Check diaphragm shear and stiffness requirements and select the fastener type and pattern. Use the diaphragm tables (pp. 95 - 121 of our manual).



Form Deck (Centering)

- Check fire rating requirements... Designs Gxxx in U.L. (p. 86 of our manual).
- Check requirements for finish. If deck is galvanized it will last the life of the structure and will always carry the slab weight; if the deck is uncoated or if the deck is shored, the slab should be reinforced to carry the slab weight as well as live loads.
- Check venting requirements if the deck is supporting an insulating fill... always use galvanized deck for this purpose.
- Check any diaphragm requirements (pp. 130 - 153 of our manual).



All Deck

- Check material specifications. The proper specification for galvanized steel is ASTM A653. The ASTM specification is A1008 for steel that is to be left uncoated or painted (but not galvanized). The minimum yield point of steel for most of our products is 40 ksi. The proper specification that covers the galvanized coating is ASTM A924.
- Check Canam USD Deck for any deck information - prices, delivery, design data. Use our website to download our *Catalog of Steel Deck Products* and to find an office near you.



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