

CLEARANCE 10'0"

SLOW

SPEED LIMIT 15

deck design data sheet
wait for attendant



DESIGNER'S CHECKLIST FOR SPECIFYING COMPOSITE DECK in parking structures

Summary of Industry Guidelines for the Design of Parking Garages ¹	Additional Information
<p>➔ Design slabs as continuous spans. Use negative bending reinforcement over the supports to distribute loads and control crack widths.</p>	<p>➔ Allow curing time before applying seals to the concrete slab so that free moisture has a chance to dry. Hanger tabs are sometimes specified in the bottom flats to aid this process.</p>
<p>➔ Provide additional reinforcement to deter cracking caused by large temperature differences and to provide lateral distribution of loads.</p>	<p>➔ Galvanized steel pour stops may not be appropriate when exposed to the weather or when water drainage will flow over the face.</p>
<p>➔ Consider Salt-water infiltration: Sources are wind and condensation deposits in coastal regions and road salt that is either brought into the structure by vehicles or spread by the owner in colder climates. Top surface of the slab must be sealed to prevent migration of chloride ions through the slab and to the deck. A minimum G90 (Z275) galvanizing is recommended. Protect the bottom of the deck with a durable paint. Establish a maintenance program for slab seals and painted surfaces. If protective measures cannot be assured, design the deck as a form and the slab as a conventional reinforced concrete slab.</p>	<p>➔ The SDI method² may be used to design slabs and determine distribution steel.</p> <p>➔ The vibration response of the entire structure must be considered.</p> <p>➔ Chloride salts are not allowed as additives in concrete slabs on composite deck. Additives may be appropriate to resist freeze - thaw.</p>

¹ "Steel Deck Institute Design Manual", Publication No. 30

² "Composite Deck Design Handbook", March 1997 Steel Deck Institute



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