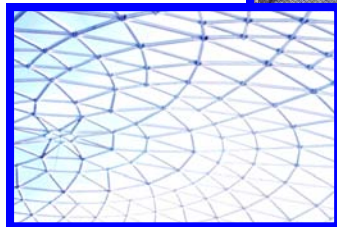
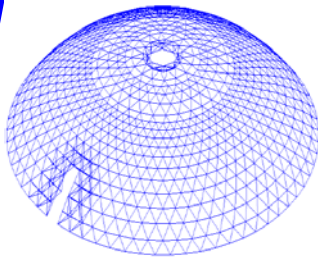
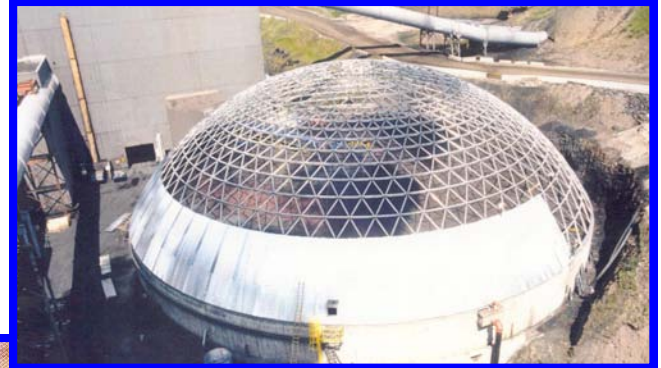




## Fording Coal Thickeners

### Dome Roofs

Owner: Fording Coal—Greenhills & Fording River, BC  
Engineer: SNC-Lavalin, Edmonton  
Fording RiverDome: 52m (171ft) dia.  
Greenhills Dome A : 50m dia (160' x 44'h)  
Greenhills Dome B : 30m dia (100' x 27'h)



Safety nets were used under the dome frame assembly to allow Fording operations to continue uninterrupted. To accelerate construction, each dome was assembled in two halves—as an annular ring on tank wall & crown caps for the 50m & 30m dia domes (15000 & 5000lbs) were assembled separately, lifted to position & connected to their base rings. Domes were designed for 110psf unbalanced snow load and reactions at the base perimeter were no more than 10kips horizontally & 25kips vertically at each of the 64 footing attachment points for the larger dome. These forces were approximately half these values on the smaller dome. Frame assembly with a crew of 3-6men was completed in around 5 weeks, once panel installation commenced a crew of 9 completed the deck in 10 days.

