



Facilities Planning and Construction Design and Construction Standards

The Texas Tech University System's 'Design and Construction Standards', as administered by Facilities Planning and Construction, are intended to serve as guidelines to the design Professional and Construction Management teams for design development and construction administration of Texas Tech University System \$TTUS% Capital Projects'. They communicate the minimum expectations and requirements relative to specific building systems, design provisions, general specification requirements, and administrative procedures for new facilities being constructed on Texas Tech University System \$

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, engage a (qualified professional structural engineer, licensed in the state of Texas, to design metal building systems'

Pre-engineered metal building systems shall withstand the effects of gravity loads and lateral loads and stresses, deflection and drift limits, thermal movement, seismic performance, fire resistance ratings within limits and under conditions indicated according to the Structural

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This section covers the general requirements for the following materials, as required to meet the project scope requirements. It is the design professional's responsibility to comprehensively specify all relevant systems to meet the design intent.

- 1% Structural steel framing
- 6% Metal roof panels
- 7% Metal wall panels
- A% Foamed insulation core metal wall panels
- B% Metal soffit panels
- C% Thermal insulation
- <% Personnel doors and frames
- >% Aluminum windows
- =% Accessories

Structural Steel Framing: Manufacturer's primary framing system, designed to withstand required loads and specified requirements. Primary framing includes transverse and lean-to frames, rafters, rafter, and canopy beams, side wall, intermediate, end wall, and corner columns and wind bracing. Comply with AISC 708, Specification for Structural Steel Buildings

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as well as structural erection'

Quality Control Comply with "2" *s ; "etal Building Systems" annual; for fabrication and erection tolerances' Special inspections will not be required if fabrication is performed by an - * S

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door and lined) ith lead sheet o! thic/ness not less than that re(uired !or doors and) alls) here !rames are used' Furnish) ith additional rein!orcements and internal su##orts to ade(uately carry the) eight o! lead!lined doors' -ninstall rein!orcements and su##orts be!ore installing lead lining' Form lead sheet to match !rame contour, continuous in each jamb and across the head, la##ing the sto##s' Form lead shields around areas #re##ared to receive hard) are' Fabricate lead lining) ide enough to maintain an e!!ective la#) ith lead o! ad!acent shielding'

Head!Hined Flush 8 ood oors Solid!core) ood doors

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1% Show layout of radiation-protected areas' - indicate lead thickness or lead equivalence of