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column can can

support a load

~~Limit state~~

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The welding
renaissance of
the 1930s
brought
confidence in
the design and
use of steel
pipe with welded
seams and

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joints. In the
prewelding era,
it had been
common prac -
tice to design
steel pipe using
a safety factor
of 4 based on
the tensile
strength.

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design of sewers

and culverts

requires

consideration of

the different,

but

interrelated,

fields of

hydrology,

hydraulics,

structural

behavior,

durability,

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procedures. This
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pipe and the
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Manufacturing
Process ASTM
A500 structural
pipe is welded
pipe sized
tubing made from
flat-rolled
steel, formed
through a roller
system and

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welded using electric-resistance
welding.

Longitudinal
butt joints of
welded tubing
shall be welded
across its
thickness in
such a manner as
to assure the
structural
design strength
of the tubing

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RICHARD M. DRAKE
and ROBERT J.

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structures in

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chemical and
power plants
that are
designed to
support pipes,
power cables and
instrument cable
trays. They may
also be used to
support
mechanical
equipment,
vessels and

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Seismic design
of structural
steel pipe
racks.

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pipe racks are
structures in
petrochemical,
chemical and

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power plants
that support
pipes, power
cables and
instrument cable
trays.

Occasionally,
they may also
support
mechanical
equipment,
vessels and
valve access
platforms.

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of structural

steel pipe racks

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applications

rely on

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pipe for

strength and

stability. At

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we supply welded

and seamless

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applications to

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industries. Our

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strength and

uniformity you

need in a

structural pipe,

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while also
offering you a
cost-effective
option compared
to other
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piping
materials.

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PIP Structural

Design Criteria

prescribes that

wind loads

on individual

structural

members, use the

loads for pipe

racks are

determined in

accordance with

larger of 10% of

the total piping

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weight or 40% of the ASCE 7 and the following: weight of the largest pipe undergoing thermal movement: 10% of the total piping weight assumes that the • Wind drift with the full wind load should not

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exceed thermal
movements on the
individual pipes
do not oc- the
pipe rack height

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the Design of

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Pipe July 2001

Page 46. of the

PGD zone, and

the orientation

of the pipe axis

with respect to

the direction of

PGD movement.

For example, if

the direction of

ground movement

is nominally

parallel to the

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pipe axis, or
longitudinal
PGD, then pipe
axial stresses
predominate.

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You will start with the absolute basics i.e. calculating loads on the pipe racks. Your trainer proceeds step by step through the

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process of
modelling
Pipe Racks
columns, beams,
stringers,
Structural
bracing, applying
Engineers
dead loads,
product loads,
thermal loads,
wind loads. Next,
he proceeds
further on how
to assign the
properties to
the structural

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steel members,
assigning the
releases and
supports. Final
stage shall be
how to analyze
and assign the
design commands
in STAAD Pro.

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are structures
in
petrochemical,
chemical and
power plants
that are

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designed to support pipes, power cables and instrument cable trays. The design requirements found in the US building codes are not clear on how they have to be applied to pipe racks. This course summarizes the

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requirements and
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practice design
criteria, design
loads and other
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consideration
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shapes, such as round HSS and steel pipe, are most efficient for resisting torsional loading. Other closed shapes, such as square and rectangular HSS, also provide considerably better

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resistance to Steel
torsion than
open shapes,
such as W-shapes
and channels.

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