





## Spilmans Island, Texas 77520, USA

Latitude, Longitude: 29.6952278, -95.0029837



<b>Date</b>	2/27/2020, 10:49:17 AM
<b>Design Code Reference Document</b>	ASCE7-10
<b>Risk Category</b>	I
<b>Site Class</b>	D - Stiff Soil

Type	Value	Description
$S_S$	0.073	$MCE_R$ ground motion. (for 0.2 second period)
$S_1$	0.039	$MCE_R$ ground motion. (for 1.0s period)
$S_{MS}$	0.116	Site-modified spectral acceleration value
$S_{M1}$	0.094	Site-modified spectral acceleration value
$S_{DS}$	0.078	Numeric seismic design value at 0.2 second SA
$S_{D1}$	0.063	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	A	Seismic design category
$F_a$	1.6	Site amplification factor at 0.2 second
$F_v$	2.4	Site amplification factor at 1.0 second
PGA	0.035	$MCE_G$ peak ground acceleration
$F_{PGA}$	1.6	Site amplification factor at PGA
$PGA_M$	0.055	Site modified peak ground acceleration
$T_L$	12	Long-period transition period in seconds
$SsRT$	0.073	Probabilistic risk-targeted ground motion. (0.2 second)
$SsUH$	0.081	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
$SsD$	1.5	Factored deterministic acceleration value. (0.2 second)
$S1RT$	0.039	Probabilistic risk-targeted ground motion. (1.0 second)
$S1UH$	0.045	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
$S1D$	0.6	Factored deterministic acceleration value. (1.0 second)
$PGAd$	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)
$C_{RS}$	0.899	Mapped value of the risk coefficient at short periods
$C_{R1}$	0.866	Mapped value of the risk coefficient at a period of 1 s

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