

CLF FILES FOR NEXO SPEAKER SYSTEMS

February, 05, 2016

INSTALLATION

Create a sub-directory in the appropriate location for your simulation software and copy all CLF files into it.

NEXO CLF files

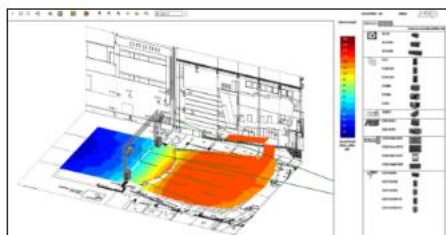
Enclosed CLF files cover the full NEXO speaker catalogue as of today.

PS8_foh PS8_wedge LS400	PS8_foh180 PS8wedge180	CLF files for PS8 and LS400
PS10_foh PS10_wedge LS600	PS10_foh180 PS10wedge180	CLF files for PS10 and LS600
PS15_foh PS15_wedge LS18	PS15_foh180 PS15wedge180	CLF files for PS15 and LS18
ID_40x90 ID_40x120 ID_60x120 ID_60x60 ID110 and ID210	ID_90x40 ID_120x40 ID_120x60	CLF files for ID24 and ID Subs
S1210_80_L S1210_120_L S1230_80_L S1230_120_L	S1210_80_R S1210_120_R S1230_80_R S1230_120_R	CLF files for GEO S12 line array
S1210ST_80_L S1210ST_120_L S1230ST_80_L S1230ST_120_L	S1210ST_80_R S1210ST_120_R S1230ST_80_R S1230ST_120_R	CLF files for GEOS12 ST line array
GEOM6_80_L GEOM6_120_L GEOM6_Bass_L	GEOM6_80_R GEOM6_120_R GEOM6_Bass_R	CLF files for GEO M6 line array
STM_M46 STM_M28_90 STM_S118	STM_B112 STM_M28_120	CLF files for STM line array
RS15 and RS18		CLF files for RS15 and RS18 subs

NOTES

- NEXO NS1 simulation software must be used prior to modelling in any simulation software in order to optimize direct sound coverage from GEO and STM systems.

NS1 simulation software is available on www.nexo-sa.com



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- NEXO subwoofers are included in the CLF files for display in projects only (IDS110, IDS210, LS400, LS600, LS18, RS15, RS18, STM S118).
- Phase data not being taken into account in CLF files, acoustic calculations for GEO and STM arrays will give poor approximation above 1 kHz.

CLF FILES IN CATT-ACOUSTIC

- Create a sub-directory named "N" in ... *CATT-data\SD* folder and copy all CLF files into it.
- To add a speaker (sp) in a project write the following lines of code in the source file:

```
SOURCEDEFS
ID_sp x_sp y_sp z_sp N/speaker.CF2 aim(hor_angle,vert_angle)
Lp1m_a = Lp_sensitivity
Gain_a = <G G G G G G >
Delay_e = d
```

For example, for an ID24 120x40:

```
SOURCEDEFS
A0 6.0 12.00 5.5 N/ID_120x40.CF2 aim(90,0)
Lp1m_a = Lp_sensitivity
Gain_a = <11 11 11 11 11 11>
Delay_e = 0
```

- Set the gain to the value given in the following table for each speaker to get the same SPL values in CATT-Acoustic and NS1 for one octave band calculations. For broadband (dBA) calculations there may be some small variations due to the different frequency bands taken into account in CATT-Acoustic and NS1.

Range	ID	PS			GEO			STM		
Speaker	ID24	PS8	PS10	PS15	S12	M620	M6B	M46	B112	M28
Gain (dB)	11	14	18	17	12	11	16	14	22	12

- For all subwoofers set the gain to 0.

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