SOLID TECH

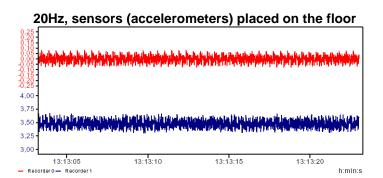
VIBRATION MEASUREMENT & VIBRATION ANALYSIS.

Equipment: Instruments:	Vibration sensor: Vibration sensor:	Geophone, Texas VTI Hamlin
Audio Generator:	GW Instrument	
Data-logger:	PC-CARD-DAS16/16AO, Measurement Computing	
Software:	DASY Lab	
Room description:	Wooden Floor (spruce) 27,5m2	
Temperature:	18°C	
Sound pressure:	70-80db	
Sound measurement:	Cel-573	

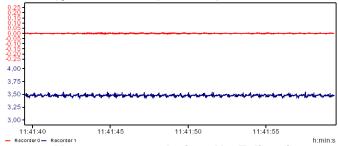
Object 1: Discs of Silence, permanently mounted on the Radius racks' base-corner-pillars, loaded at 50% of its working span.

Object 2: IsoClear placed on the floor, loaded at 50% of its working span

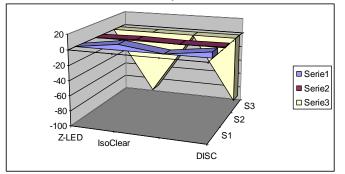
Red Curve = Z direction (the up and down movement) **Blue Curve** = X-Y direction (lateral movement – left, right)



20Hz, IsoClear, placed on the floor, sensors placed on the object.



Measurement analysis 20Hz, Z direction.

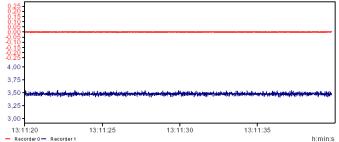


Serie 1 = Vibrations on the floor.

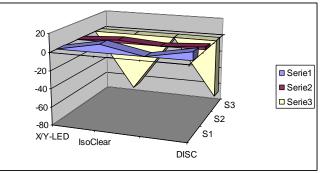
Serie 2 = Vibrations on Isoclear (left column). Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

Isoclear = 84,64% reduction at 20HZ Discs of Silence equipped Radius rack = 88,48% reduction on the shelf at 20Hz.

20Hz, Discs of Silence equipped Radius rack placed on the floor, sensors placed on the shelf.

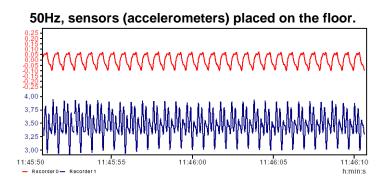




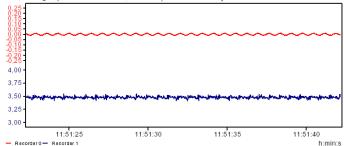


Serie 1 = Vibrations on the floor. Serie 2 = Vibrations on the Isoclear (left column). Discs of Silence equipped Radius rack (right column) Serie 3 = Reduction of vibrations in %

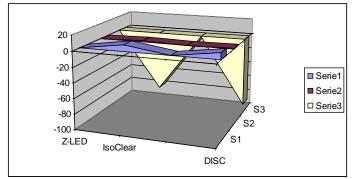
Isoclear = 65,23% reduction at 20Hz Discs of Silence equipped Radius rack = 66,22% reduction on the shelf at 20Hz,



50Hz, IsoClear, placed on the floor, sensors placed on the object.



Measurement analysis 50Hz, Z direction.



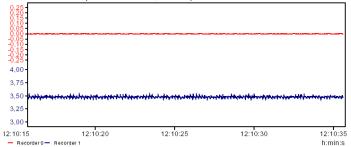
Serie 1 = Vibrations on the floor.

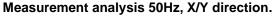
Serie 2 = Vibrations on Isoclear (left column).

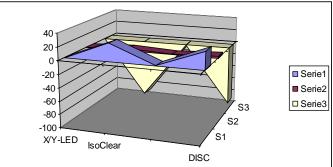
Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

Isoclear = 77,73% reduction at 50HZ Discs of Silence equipped Radius rack = 89,22% reduction on the shelf at 50Hz.

50Hz, Discs of Silence, equipped Radius rack placed on the floor, sensors placed on the shelf.

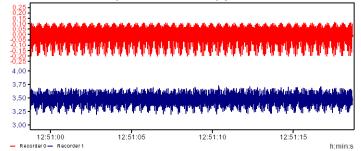




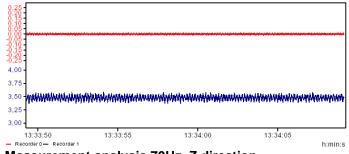


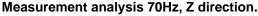
Serie 1 = Vibrations on the floor. Serie 2 = Vibrations on the Isoclear (left column). Discs of Silence equipped Radius rack (right column) Serie 3 = Reduction of vibrations in %

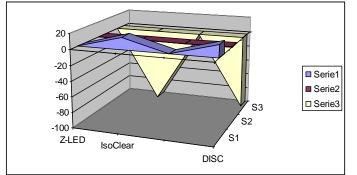
Isoclear = 87,18% reduction at 50Hz Discs of Silence equipped Radius rack = 88,44% reduction on the shelf at 50Hz, 70Hz, sensors (accelerometers) placed on the floor.



70Hz, IsoClear, placed on the floor, sensors placed on the object.







Serie 1 = Vibrations on the floor.

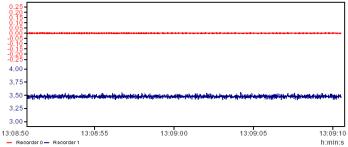
Serie 2 = Vibrations on Isoclear (left column).

Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

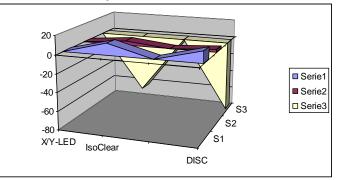
Isoclear = 94,07% reduction at 70HZ

Discs of Silence equipped Radius rack = 94,39% reduction on the shelf at 70Hz.

70Hz, Discs of Silence, equipped Radius rack placed on the floor, sensors placed on the shelf.



Measurement analysis 70Hz, X/Y direction.

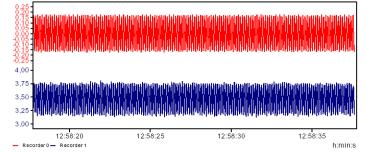


Serie 1 = Vibrations on the floor.

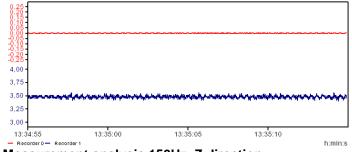
Serie 2 = Vibrations on Isoclear (left column). Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

Isoclear = 61,98% reduction at 70HZ Discs of Silence equipped Radius rack = 76,37% reduction on the shelf at 70Hz.

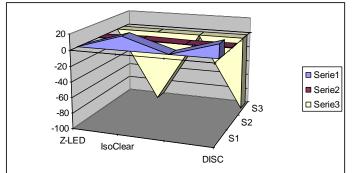




150Hz, IsoClear, placed on the floor, sensors placed on the object.







Serie 1 = Vibrations on the floor.

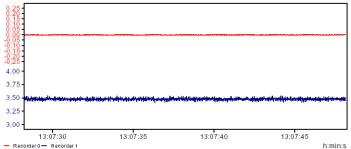
Serie 2 = Vibrations on Isoclear (left column).

Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

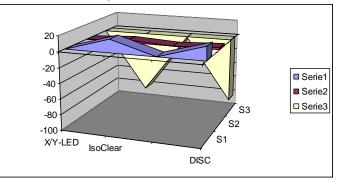
Isoclear = 93,81% reduction at 150HZ

Discs of Silence equipped Radius rack = 95,87% reduction on the shelf at 150Hz.

150Hz, Discs of Silence, equipped Radius rack placed on the floor, sensors placed on the shelf.



Measurement analysis 150Hz, X/Y direction.



Serie 1 =Vibrations on the floor.

Serie 2 = Vibrations on Isoclear (left column). Discs of Silence equipped Radius rack (right column). Serie 3 = Reduction of vibrations in %

Isoclear = 77,56% reduction at 150HZDiscs of Silence equipped Radius rack = 82,76% reduction on the shelf at 150Hz.