

Dataset 1 is composed by two CSV files, defined as follow:

- i. **alpha1.csv** (2561x648): This file contains the measured acoustic absorption coefficient data:
 - The 648 rows correspond to the values of the acoustic absorption coefficient at each frequency, obtained by varying a set of categorical variables.
- ii. **target1.csv** (648x14): This file contains 648 one-hot encoded vectors, one for each acoustic absorption measurement reported in alpha1.csv. Each row describes the conditions under which the corresponding measurement was performed:
 - Columns [1,2] → material (2);
 - Columns [3,4] → protective layer (2);
 - Columns [5,6,7] → installation configuration (3);
 - Columns [8,9,10,11] → relative humidity (4);
 - Columns [12,13,14] → specimen number (3);

Note: The investigated frequency range spans from 250 Hz to 4250 Hz, with a resolution of 1.5625 Hz.

Material		Protective Layer		Installation configuration			Relative humidity				...
Green	Grey	SI	NO	T1	T2	T3	10%	40%	70%	100%	...

...	Specimen number		
...	1	2	3

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