

## RISULTATO INDAGINE

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Instrument: TEP-0064/01-10

Start recording: 12/03/12 10:13:37 End recording: 12/03/12 10:23:38

Smoothing window: Triangular window

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

Trace length: 0h10'00". Analysis performed on the entire trace.

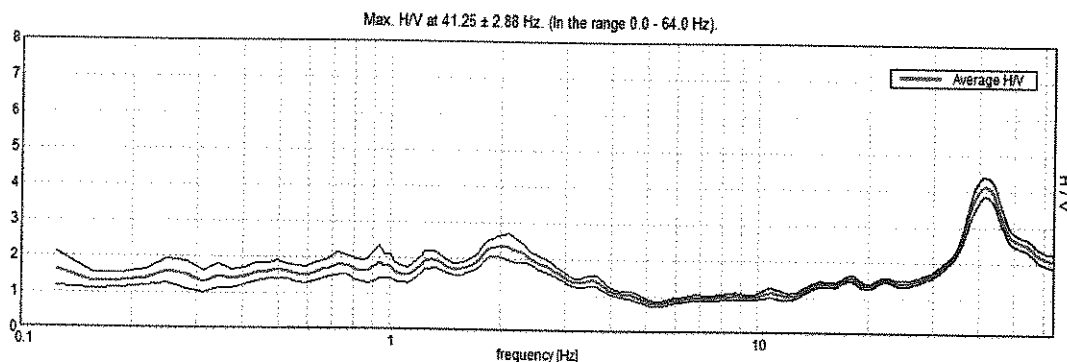
Sampling frequency: 128 Hz

Window size: 20 s

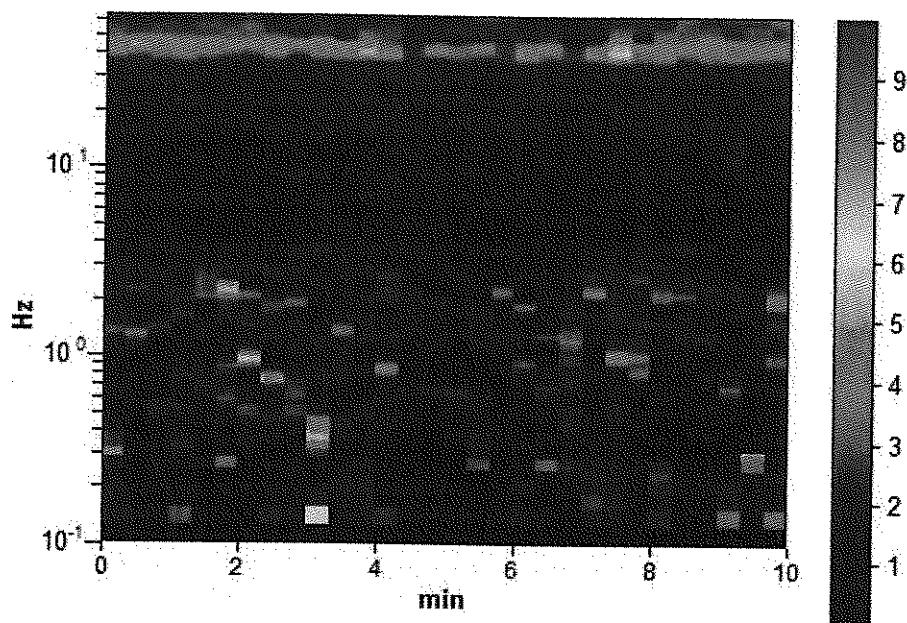
Smoothing window: Triangular window

Smoothing: 10%

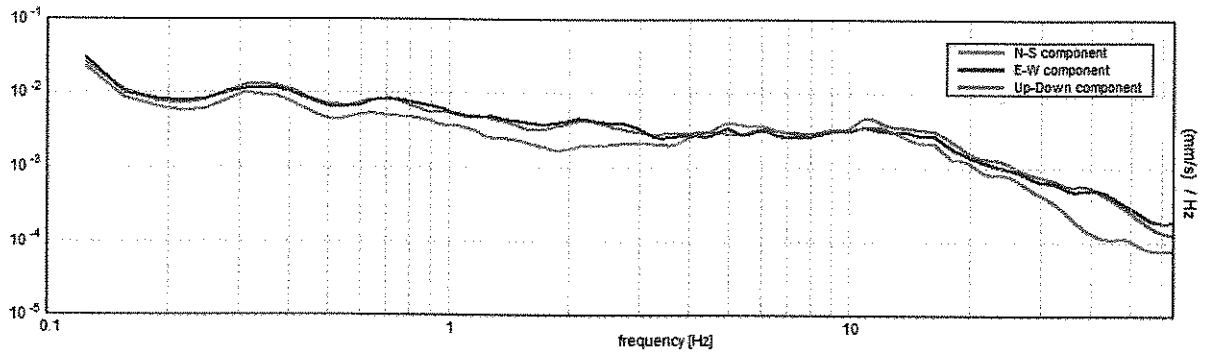
## HORIZONTAL TO VERTICAL SPECTRAL RATIO



## H/V TIME HISTORY



SINGLE COMPONENT SPECTRA



EXPERIMENTAL VS. SYNTHETIC H/V

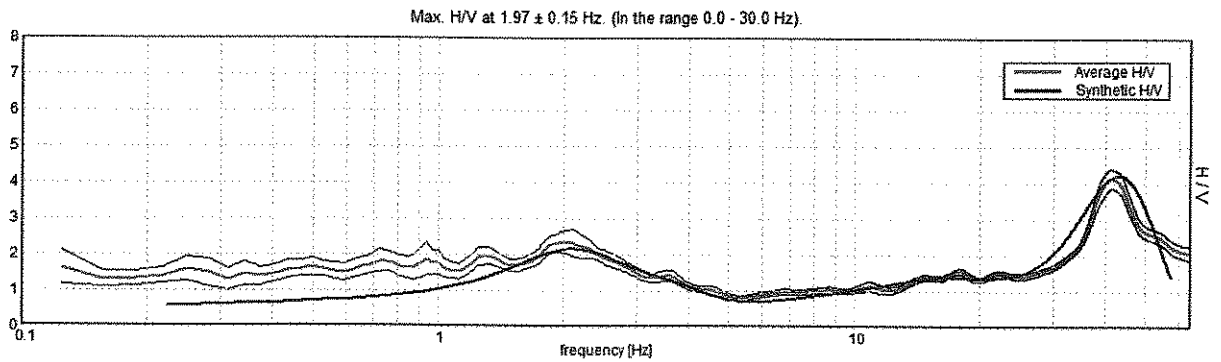
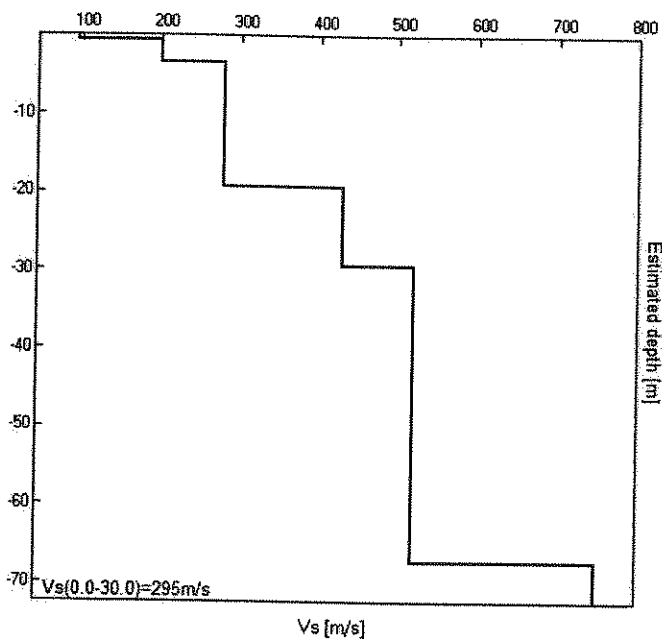


TABELLA VELOCITÀ ONDE Vs

Depth (layer bottom) [m]	Thickness [m]	Vs [m/s]	Poisson Ratio
0.60	0.60	96	0.48
3.40	2.80	200	0.34
19.40	16.00	280	0.32
29.40	10.00	430	0.31
67.40	38.00	520	0.30
inf.	0.00	750	0.28

STIMA Vs30

$Vs(0.0-30.0)=295m/s$



9

### SESAME GUIDELINES (2005)

Max. H/V at  $1.97 \pm 0.15$  Hz (in the range 0.0 - 30.0 Hz).

$f_0 > 10 / Lw$ :  $1.97 > 0.50$  [ OK ]

$nc(f_0) > 200$ :  $1181.3 > 200$  [ OK ]

$sA(f) < 2$  for  $0.5f_0 < f < 2f_0$  if  $f_0 > 0.5$ Hz

$sA(f) < 3$  for  $0.5f_0 < f < 2f_0$  if  $f_0 < 0.5$ Hz. Exceeded 0 out of 96 times [ OK ]

Exists  $f_+$  in  $[f_0, 4f_0]$   $A_{H/V}(f_+) < A_0 / 2$ :  $3.938$  Hz [ OK ]

$A_0 > 2$ :  $2.33 > 2$  [ OK ]

$f_{peak}[A_{H/V}(f) \pm sA(f)] = f_0 \pm 5\%$ :  $0.03649 < 0.05$  [ OK ]

$sf < e(f_0)$ :  $0.07184 < 0.19688$  [ OK ]

$sA(f_0) < q(f_0)$ :  $0.133 < 1.78$  [ OK ]

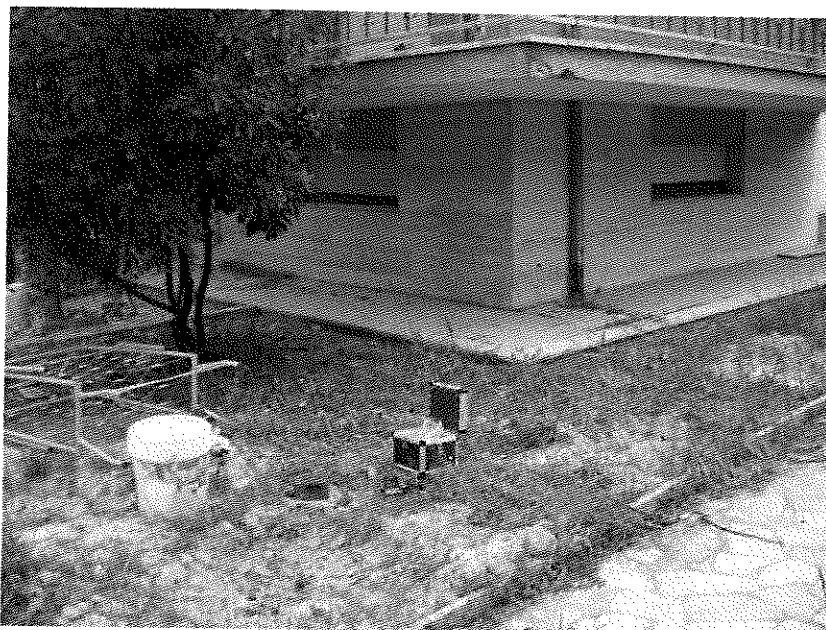


Foto 1- esecuzione in sito di misura HVSR