

ALMA MATER STUDIORUM – UNIVERSITÀ DI BOLOGNA

SCUOLA DI INGEGNERIA E ARCHITETTURA

DICAM – Dipartimento di Ingegneria Civile, Ambientale e dei Materiali

Corso di Laurea Magistrale in Ingegneria Civile

TESI DI LAUREA MAGISTRALE

**PROVE SU TAVOLA VIBRANTE DI UN SILO METALLICO A
FONDO PIANO: ANALISI DELLA RISPOSTA SISMICA
MEDIANTE MISURAZIONI OTTICHE**

APPENDICE A – Parte 3

CANDIDATO

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RELATORE

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Anno Accademico 2018-2019

Sessione I

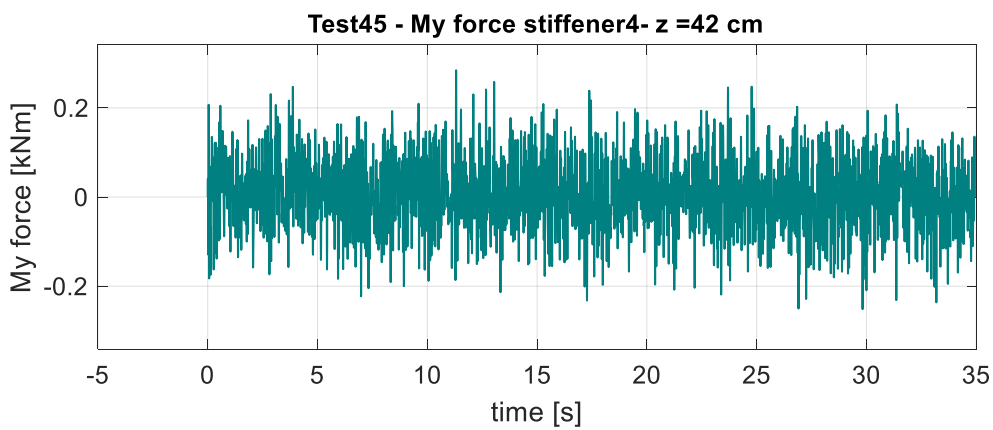
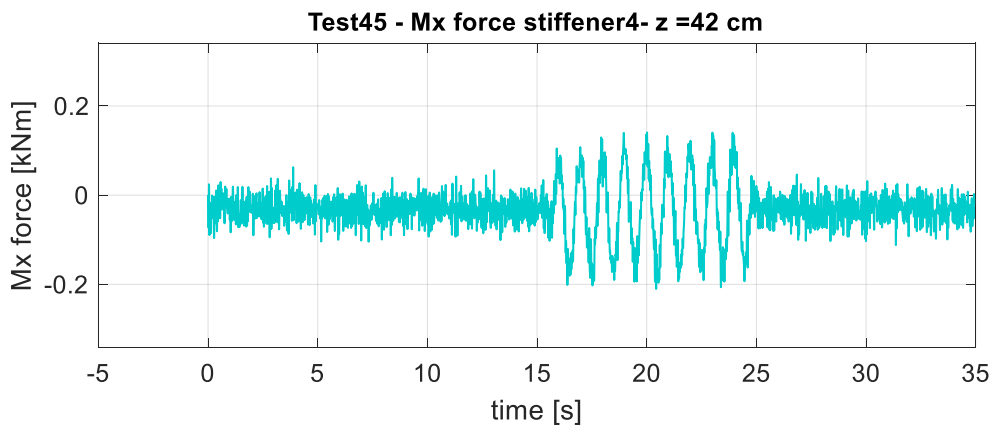
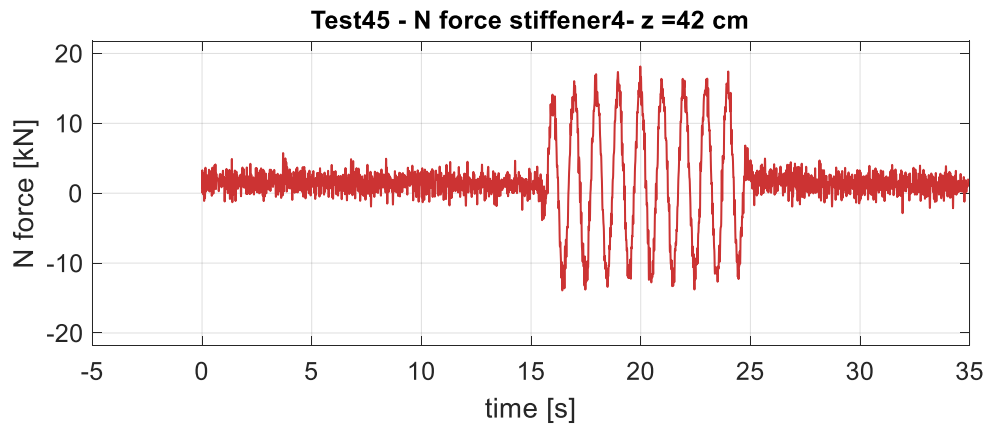
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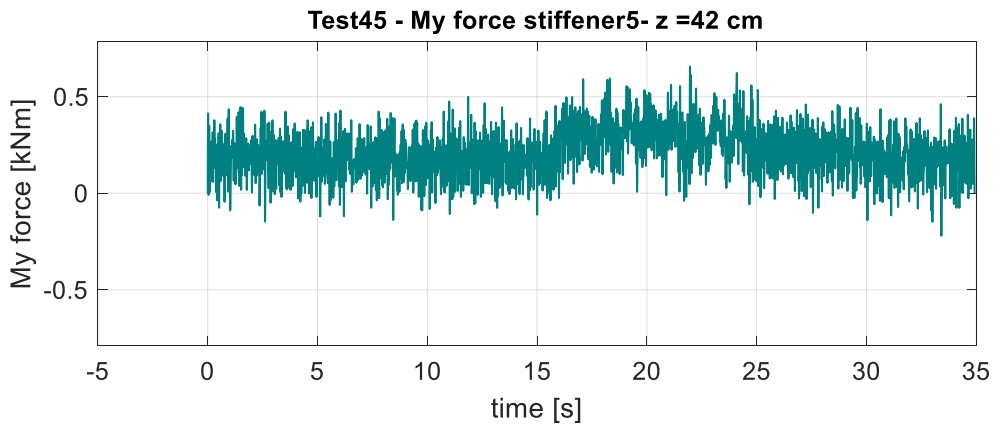
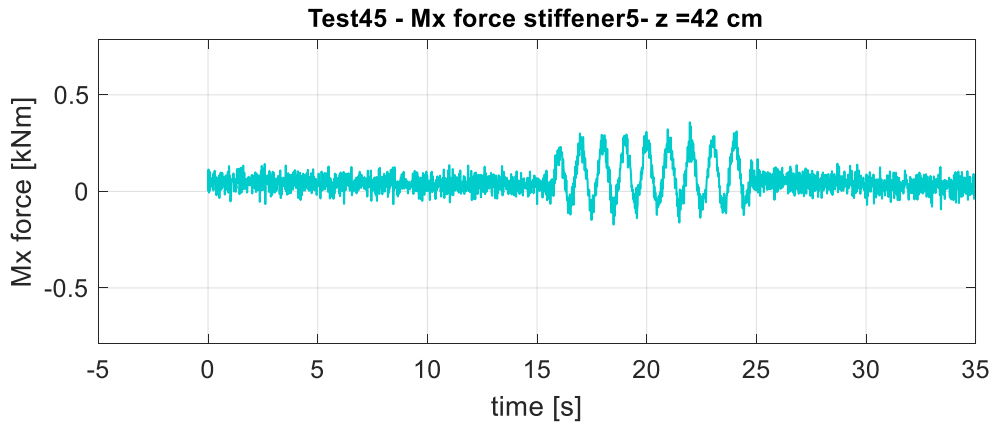
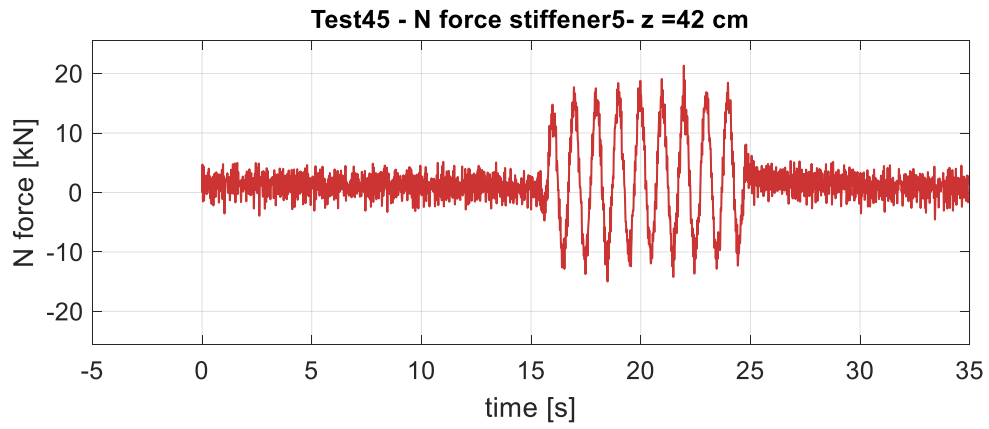
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Sinusoidal input 1 Hz 0.3 g pre – compaction: Test 45

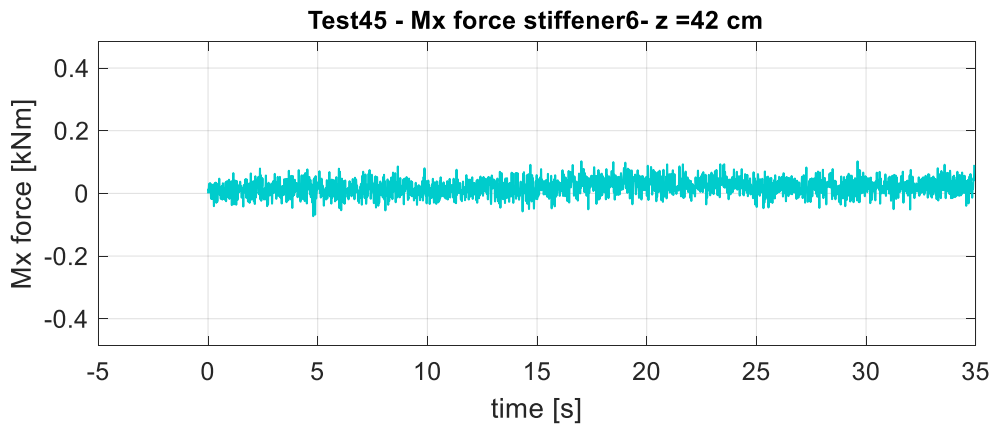
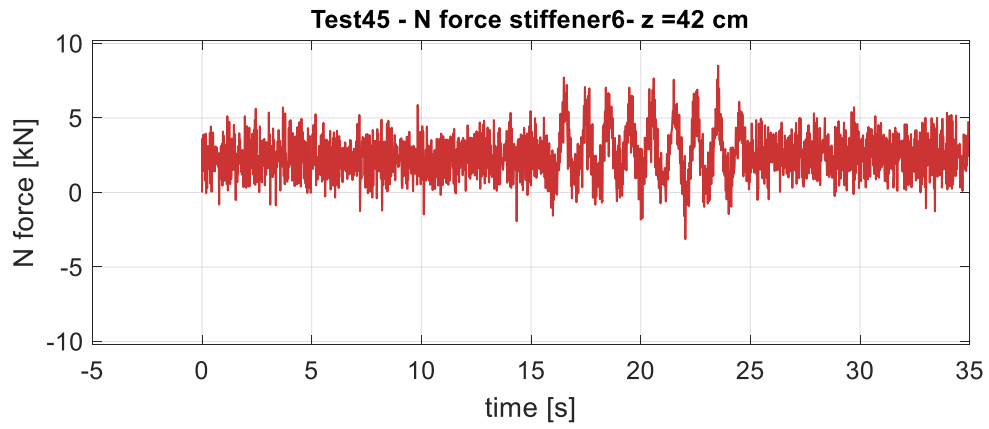
Quota Z = 42 cm: montante 4



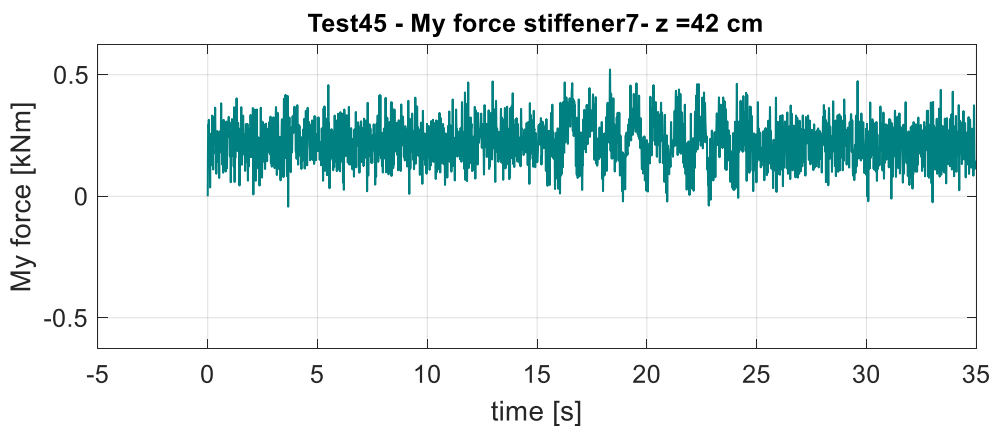
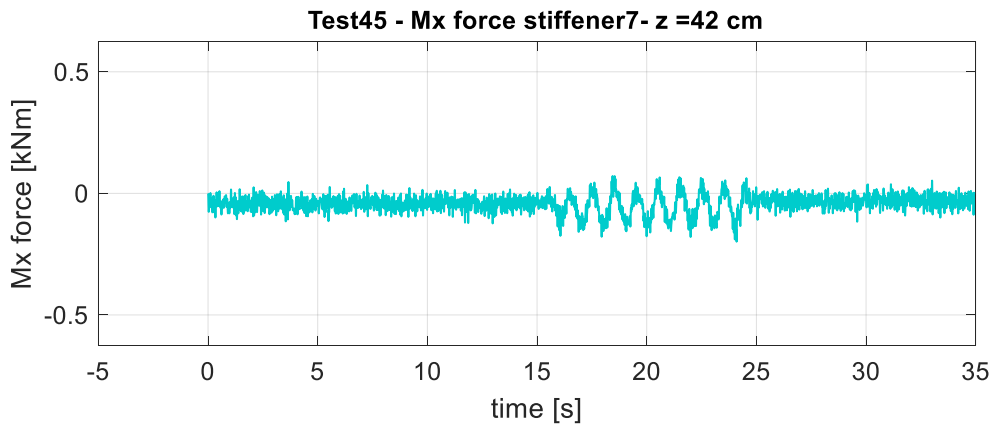
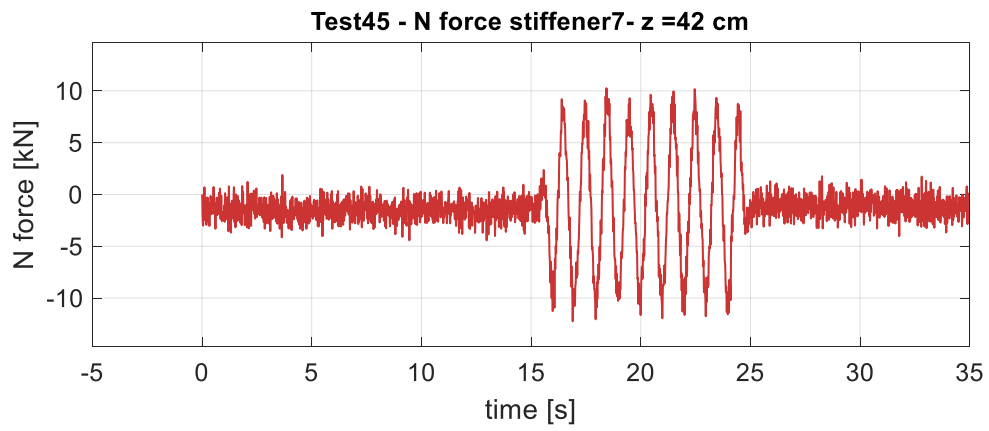
Quota Z = 42 cm: montante 5



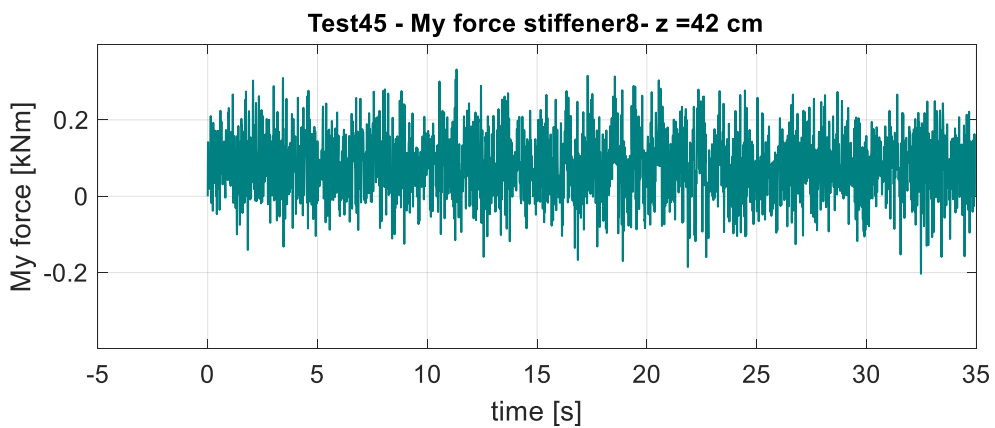
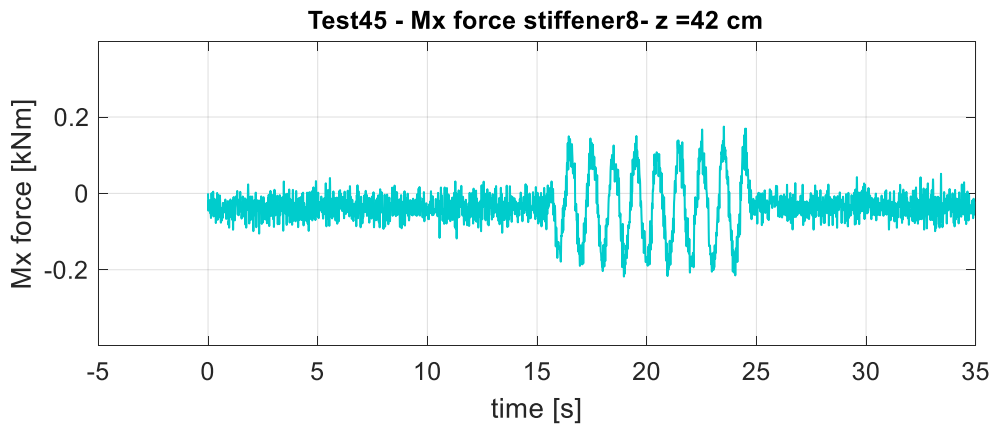
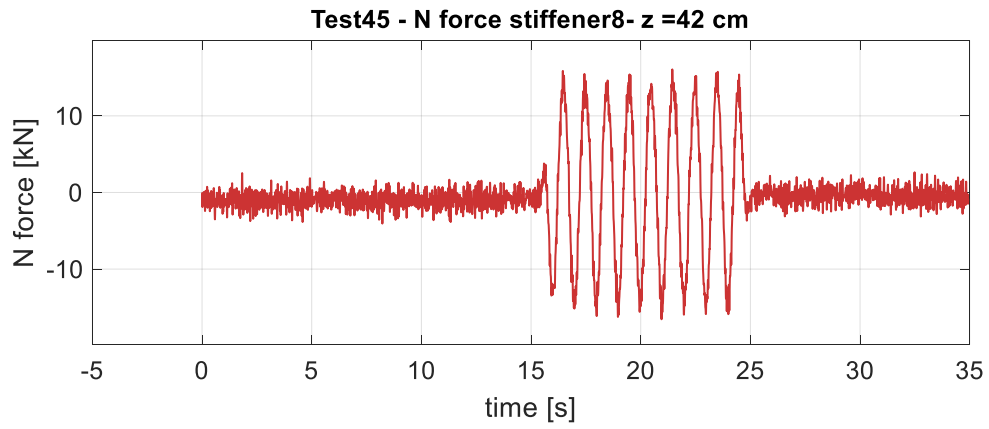
Quota Z = 42 cm: montante 6



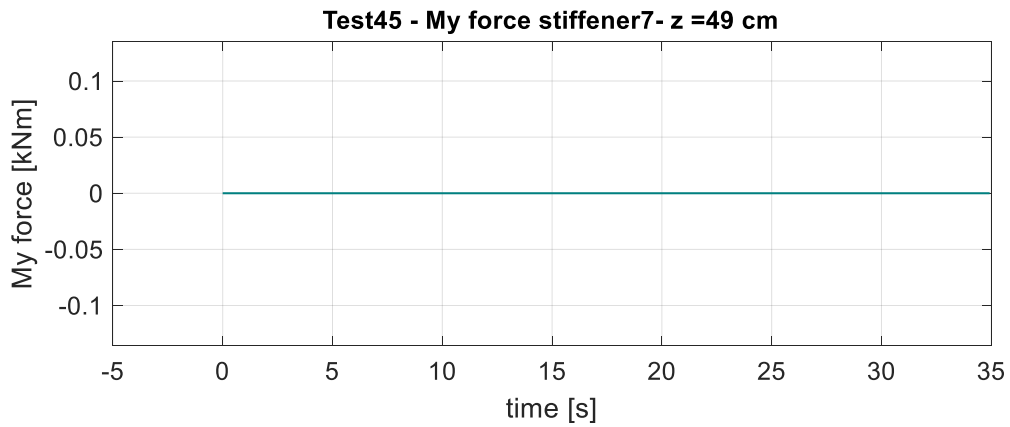
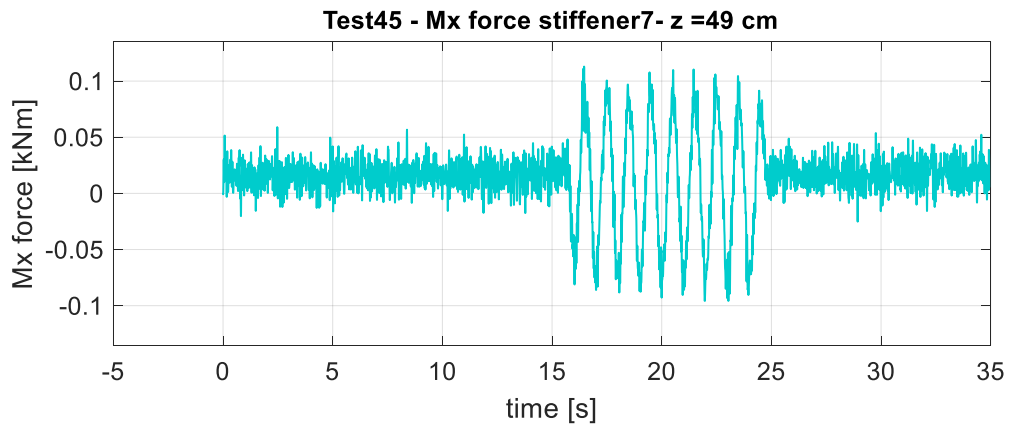
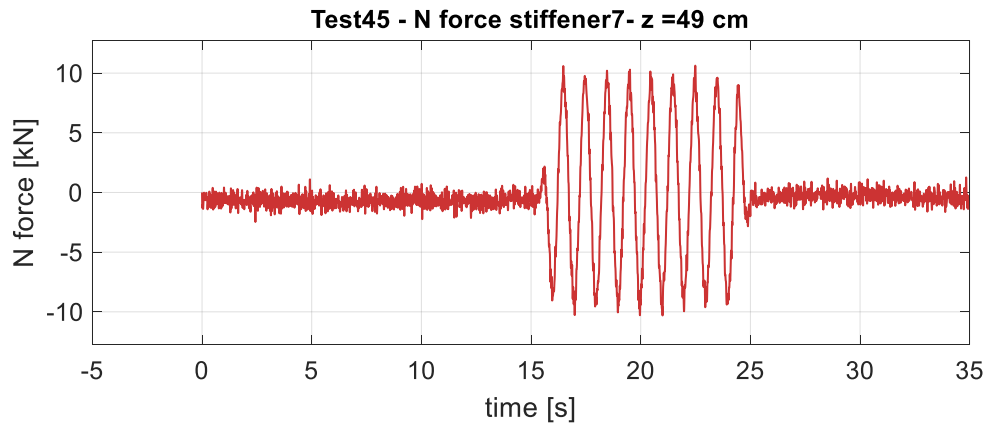
Quota Z = 42 cm: montante 7



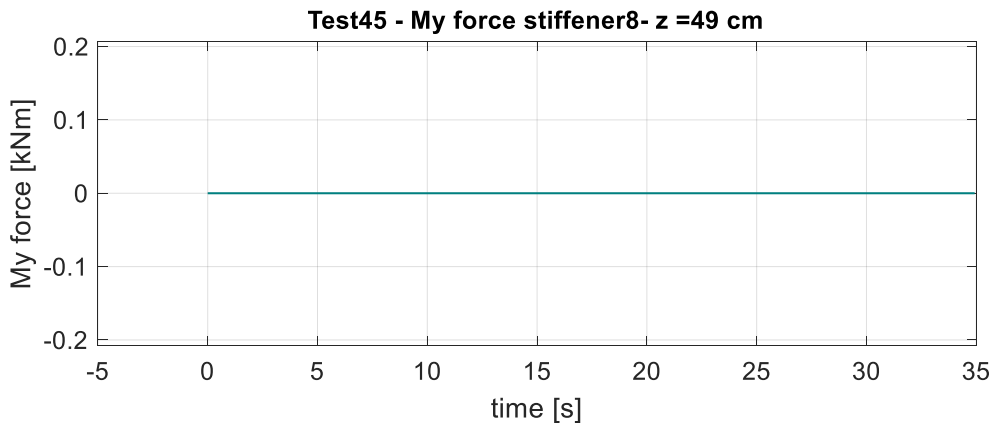
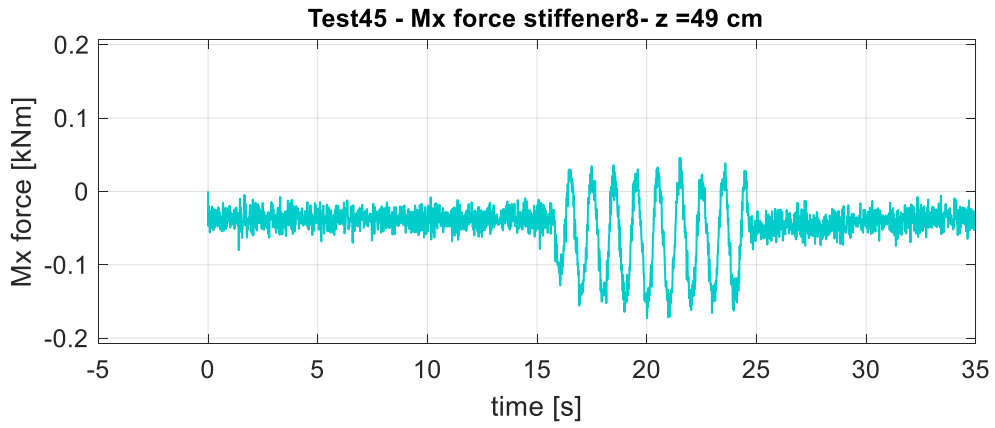
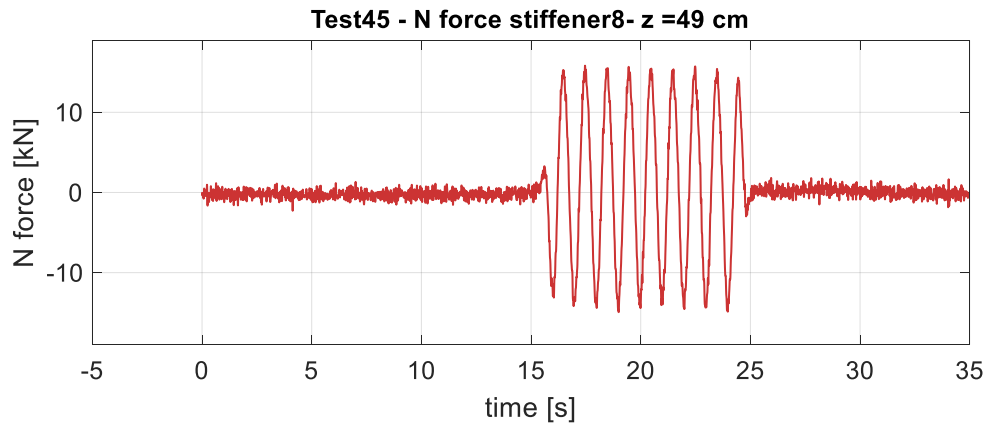
Quota Z = 42 cm: montante 8



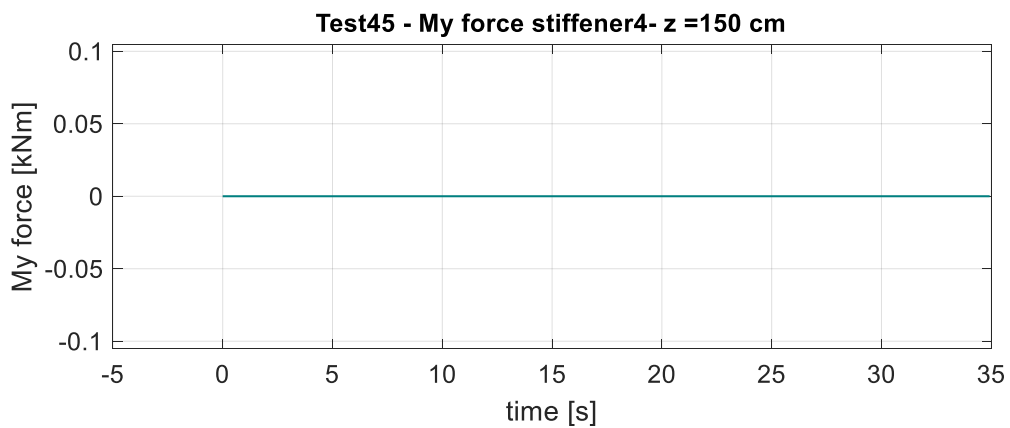
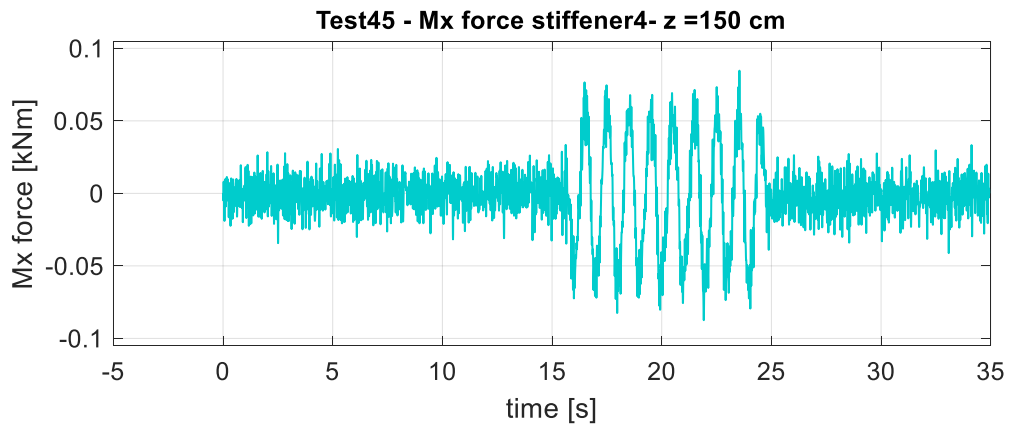
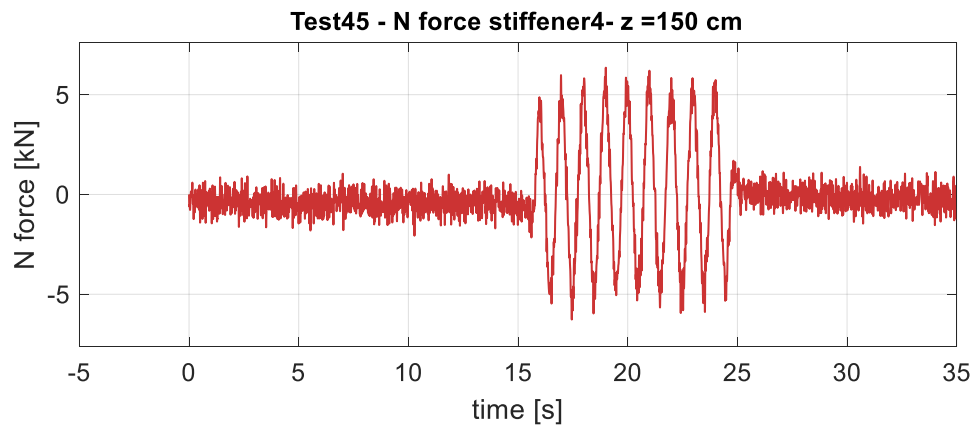
Quota Z = 49 cm: montante 7



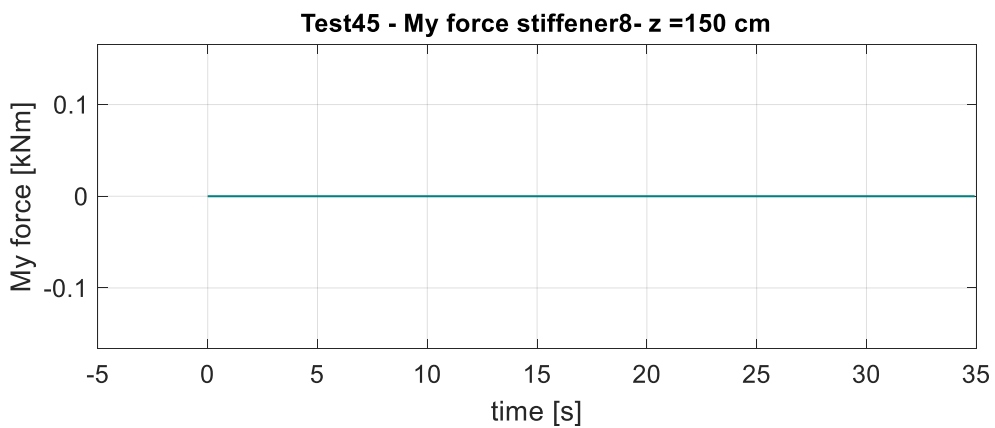
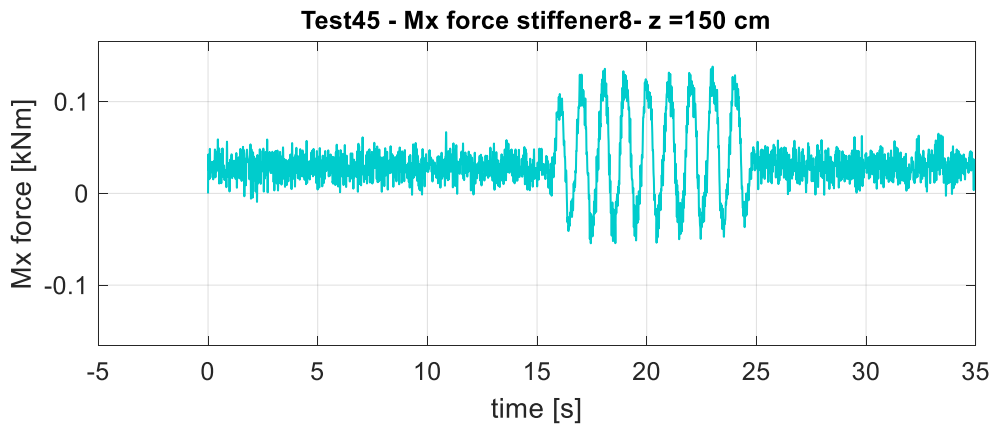
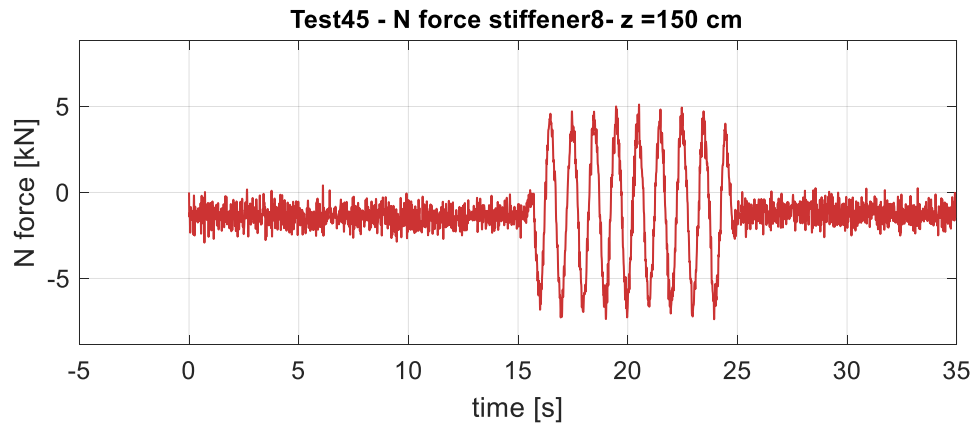
Quota Z = 49 cm: montante 8



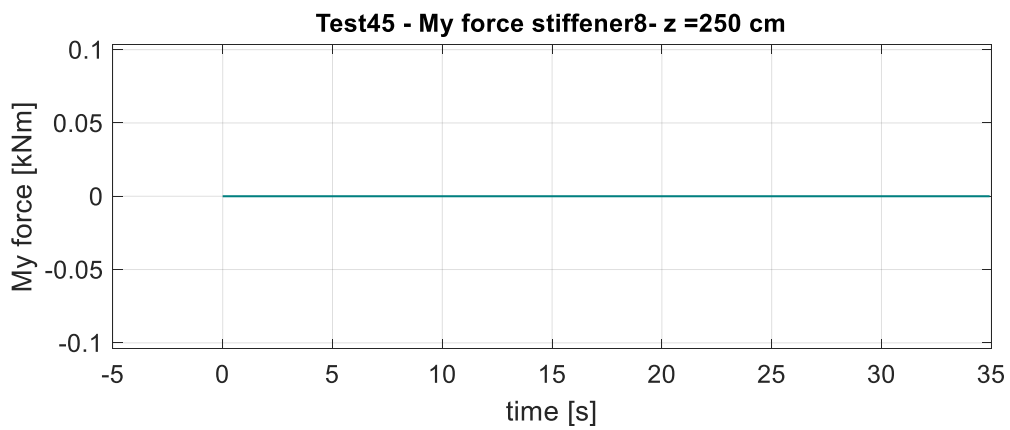
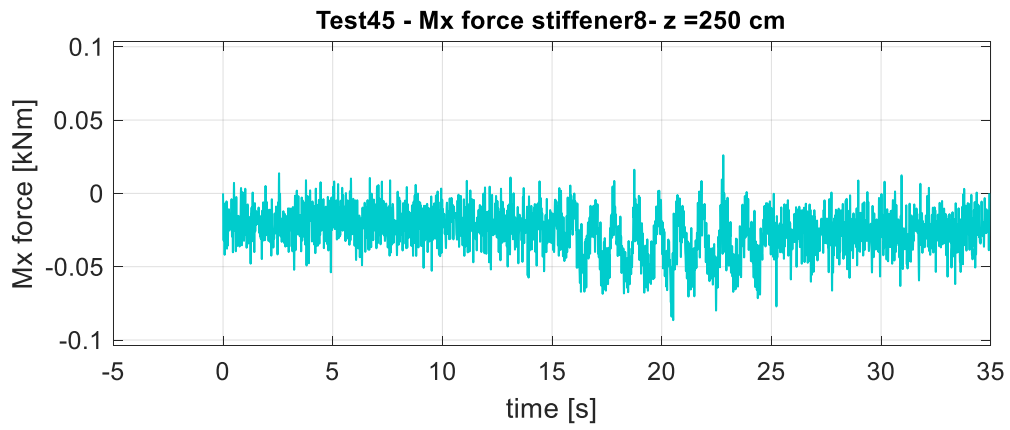
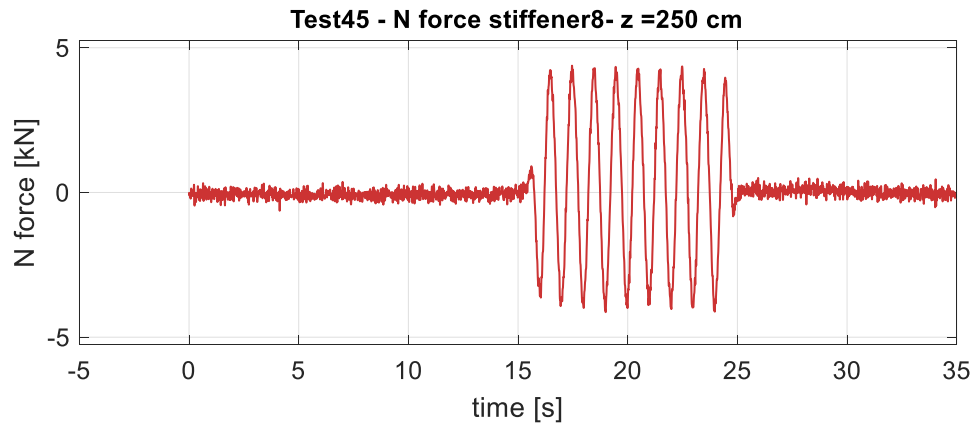
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

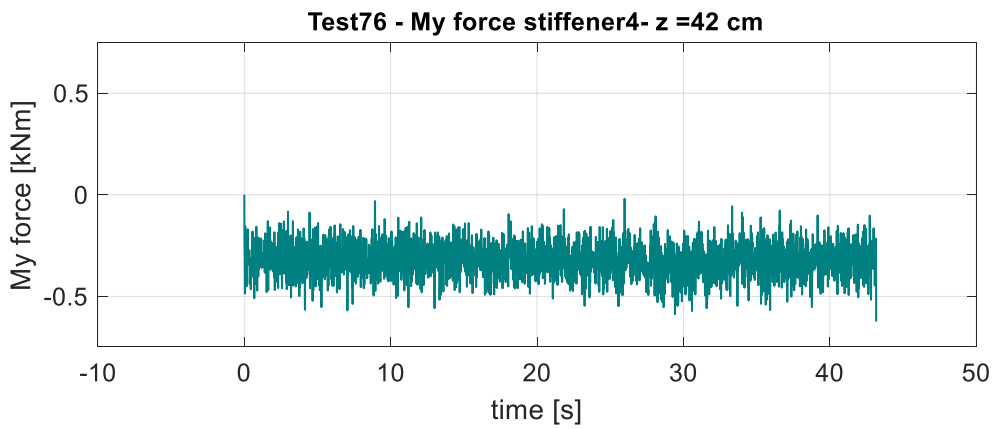
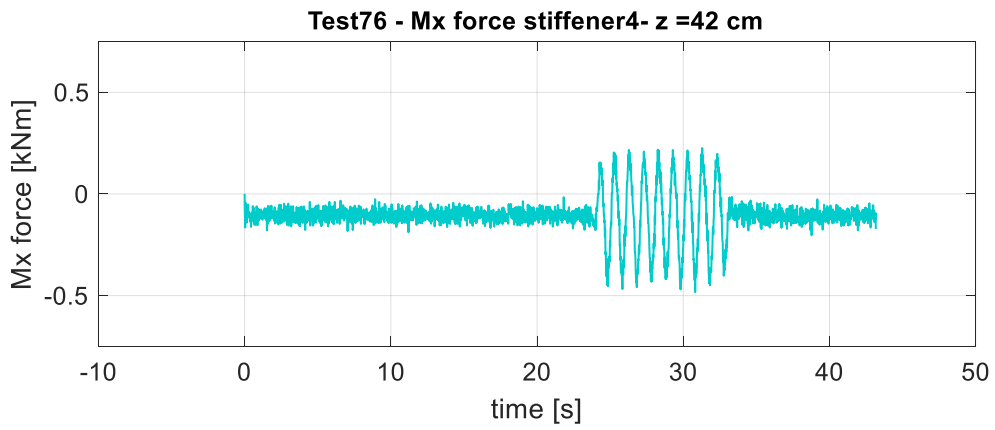
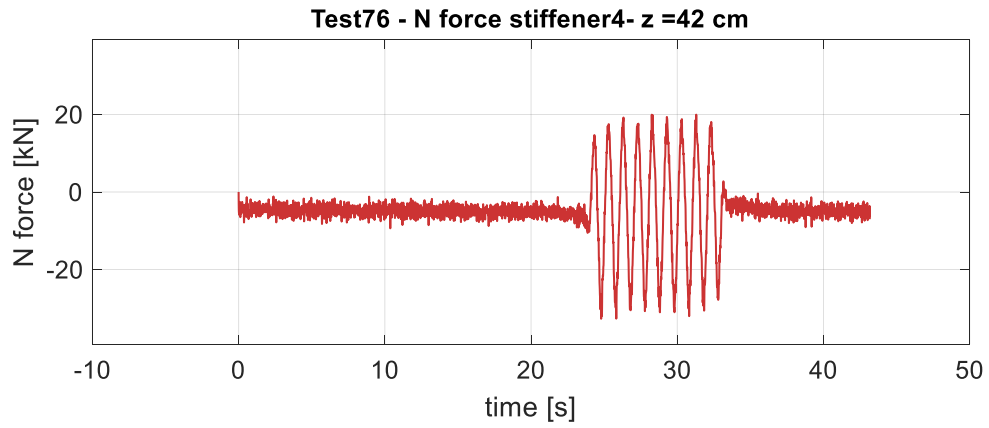


Quota Z = 250 cm: montante 8

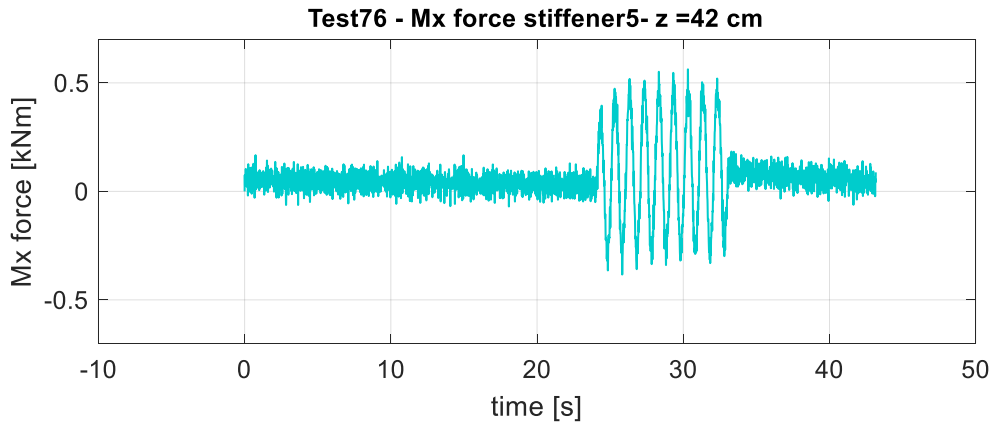
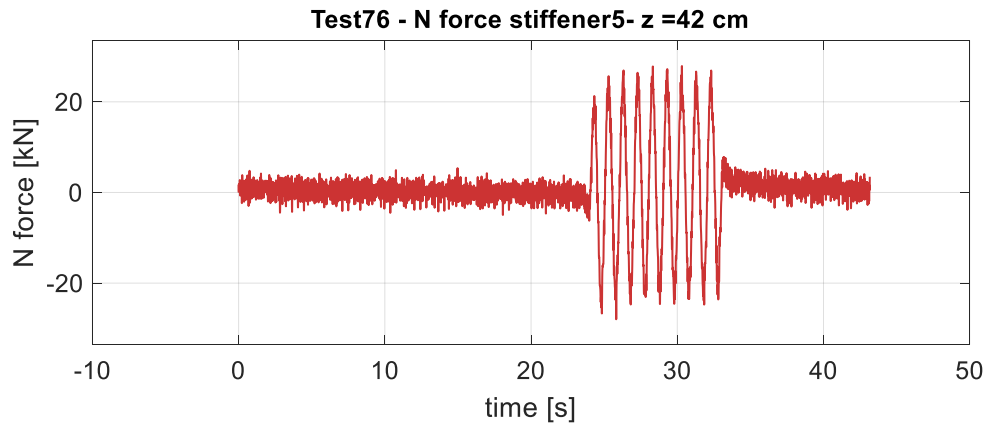


Sinusoidal input 1 Hz 0.5 g pre – compaction: Test 76

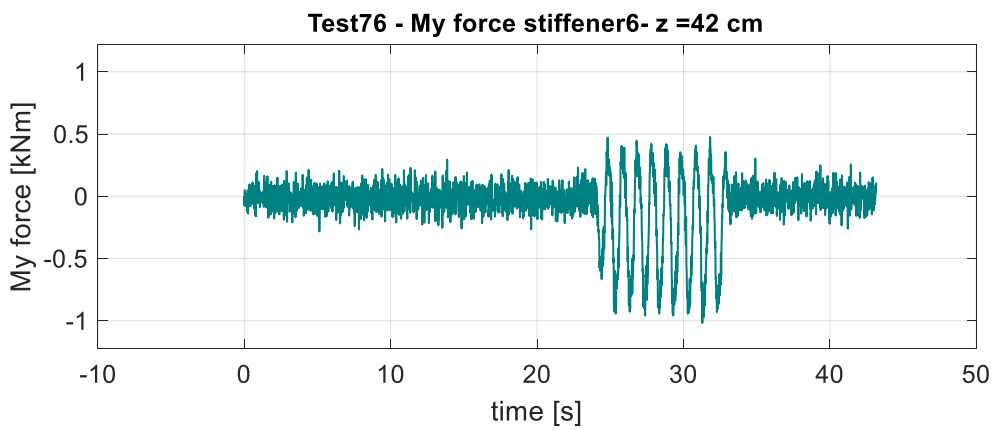
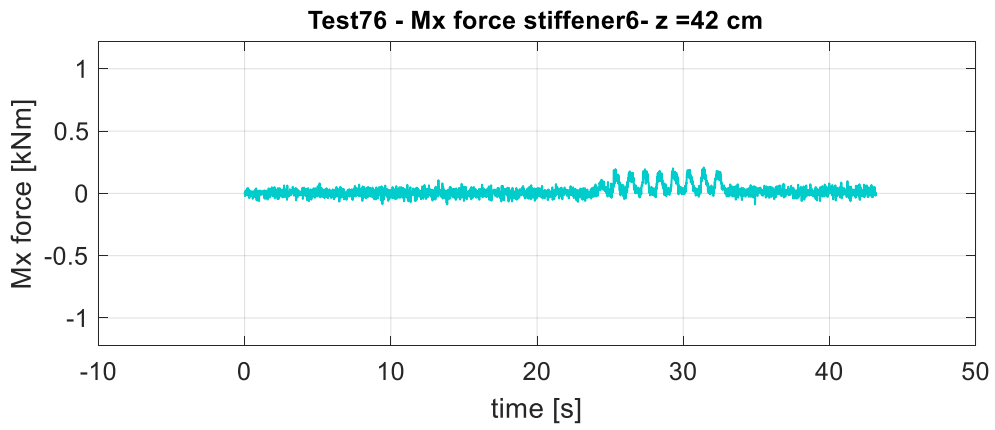
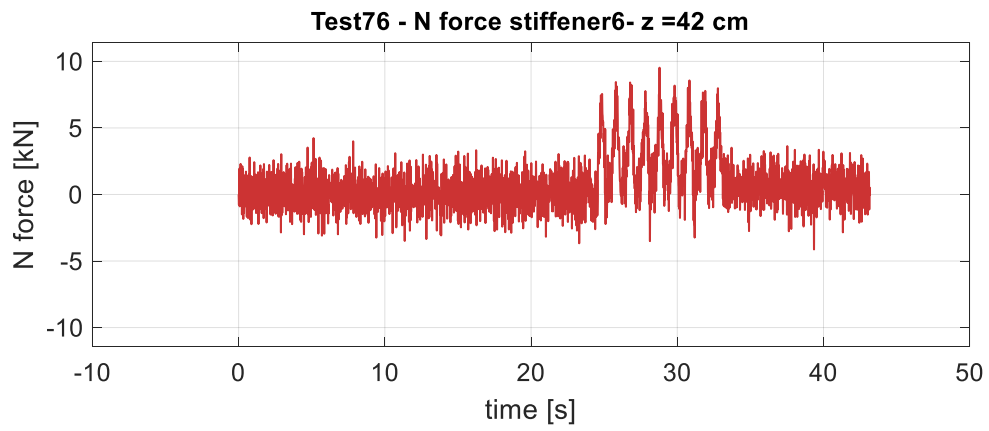
Quota Z = 42 cm: montante 4



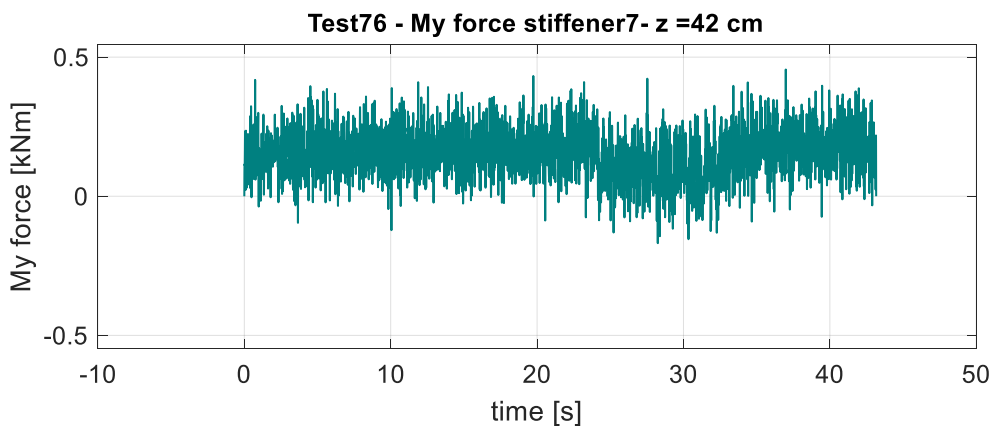
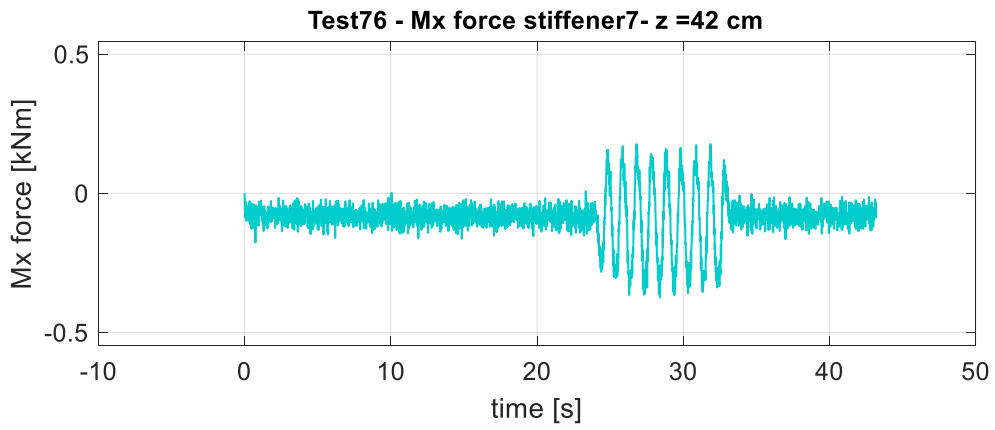
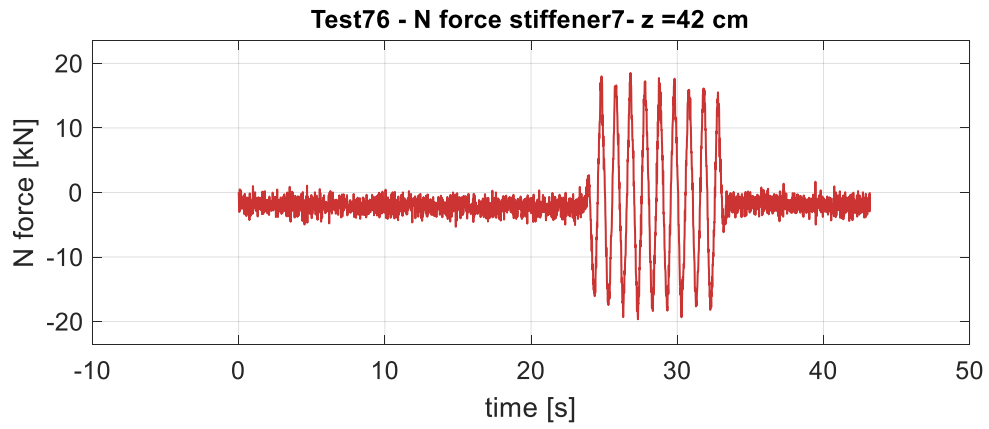
Quota Z = 42 cm: montante 5



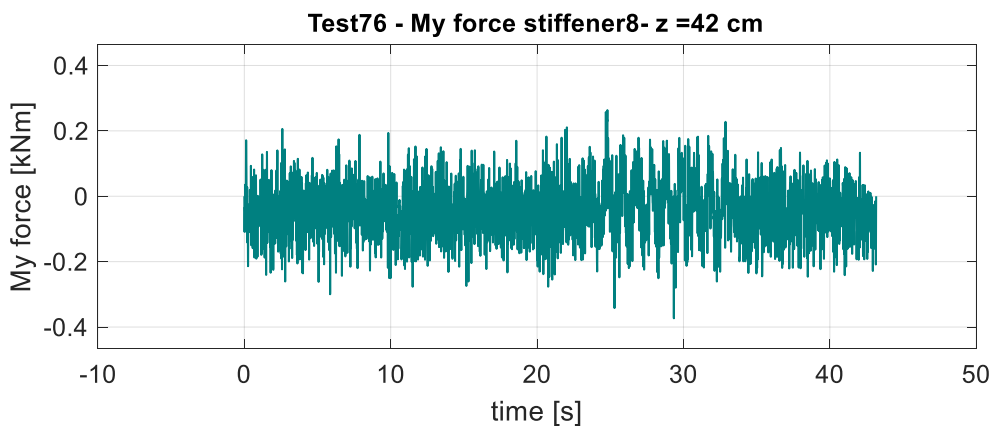
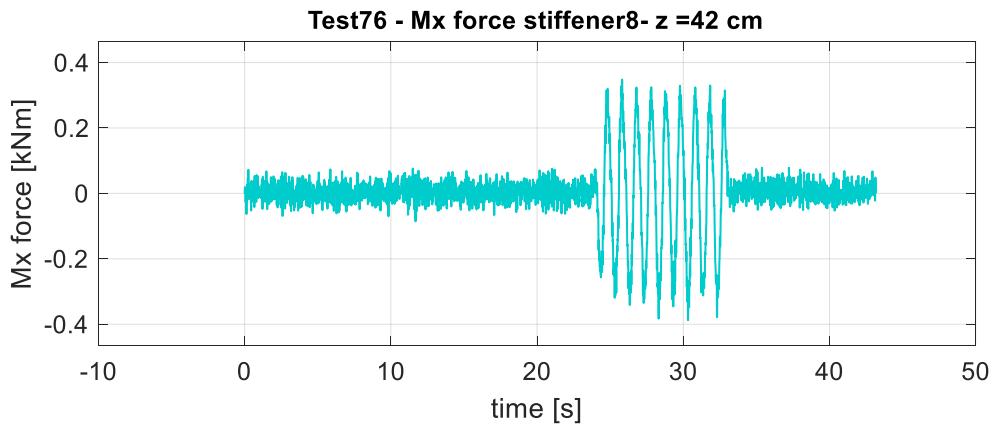
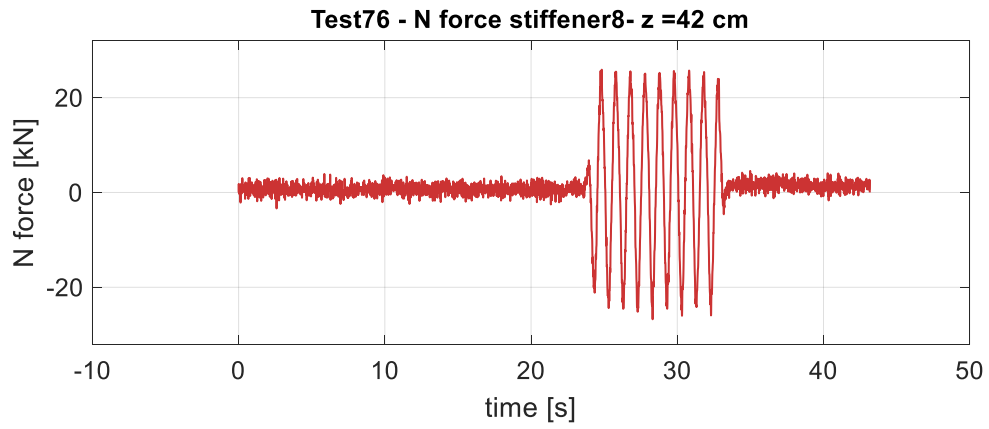
Quota Z = 42 cm: montante 6



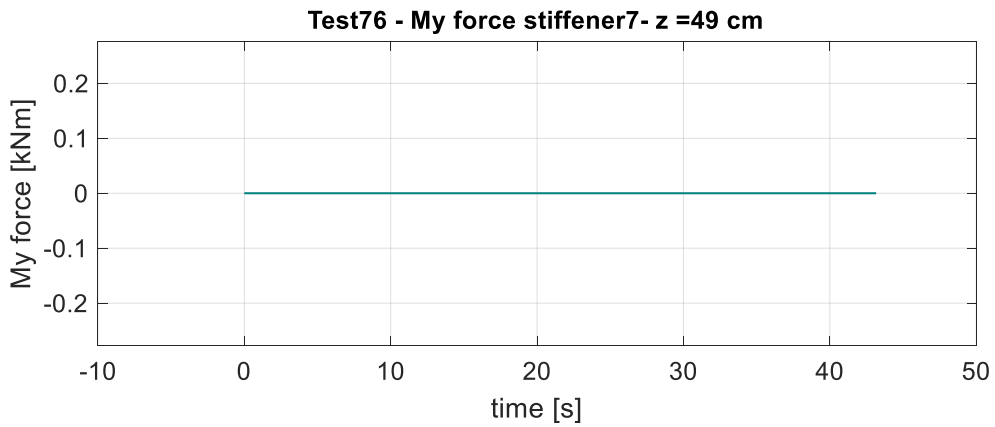
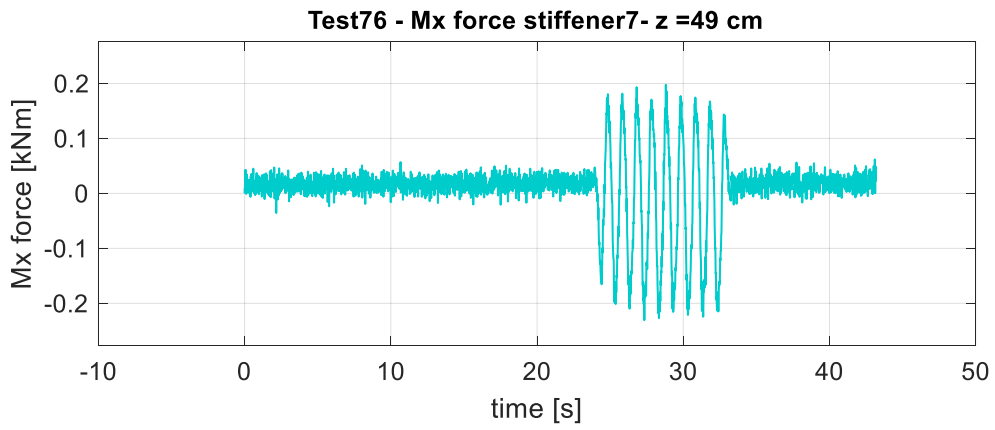
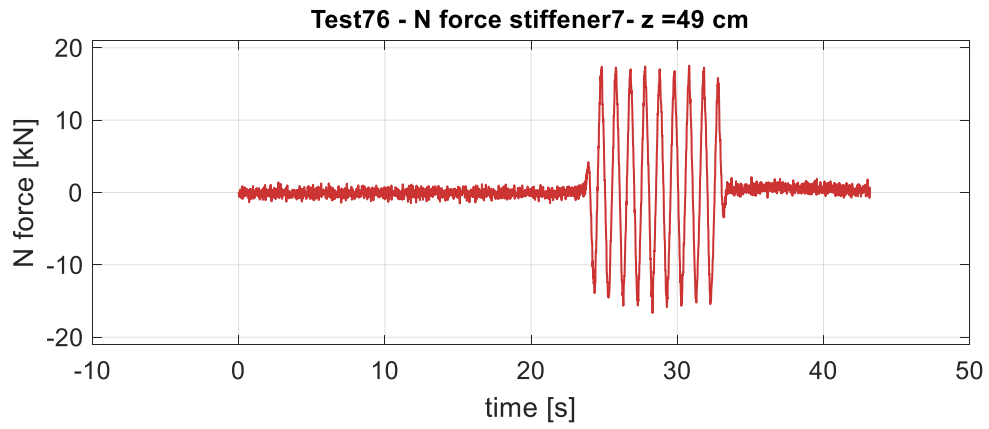
Quota Z = 42 cm: montante 7



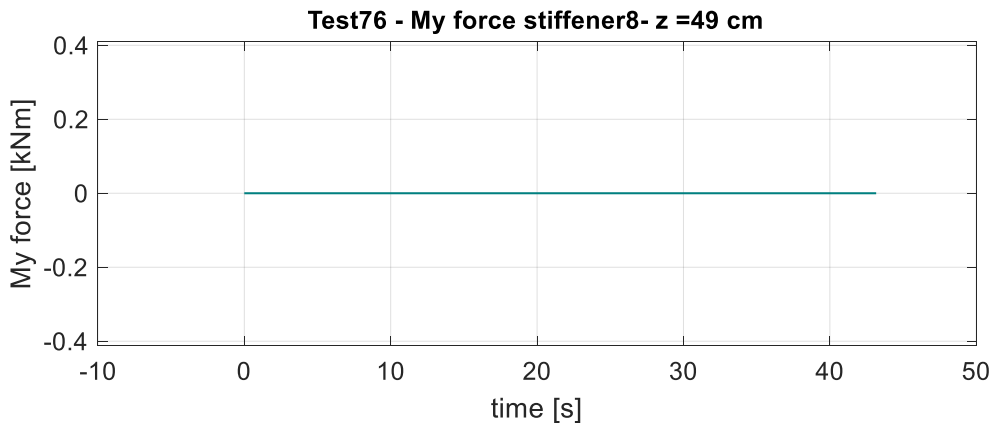
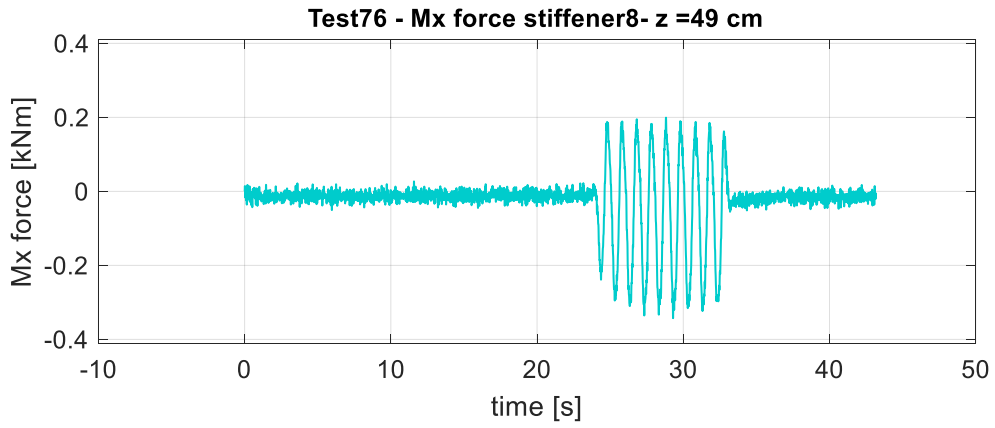
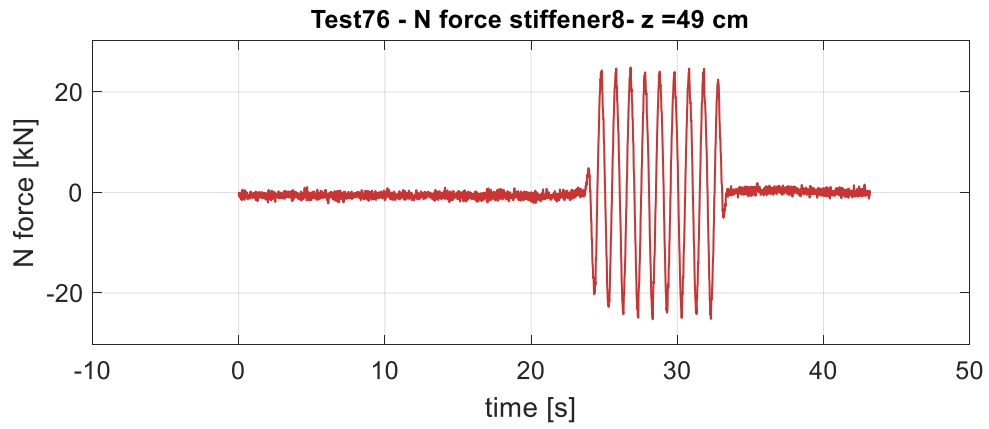
Quota Z = 42 cm: montante 8



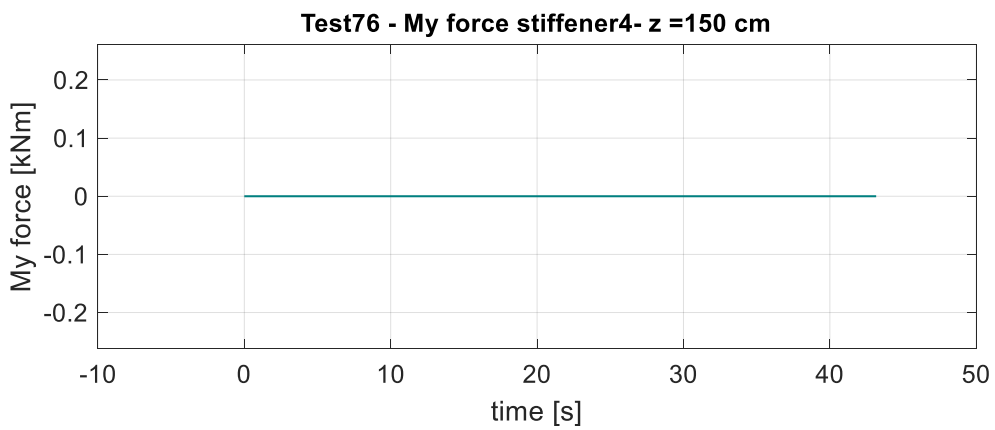
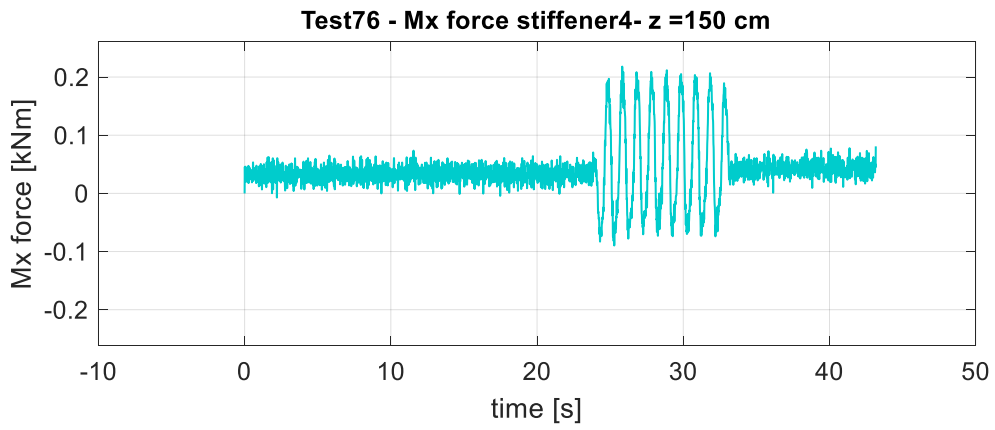
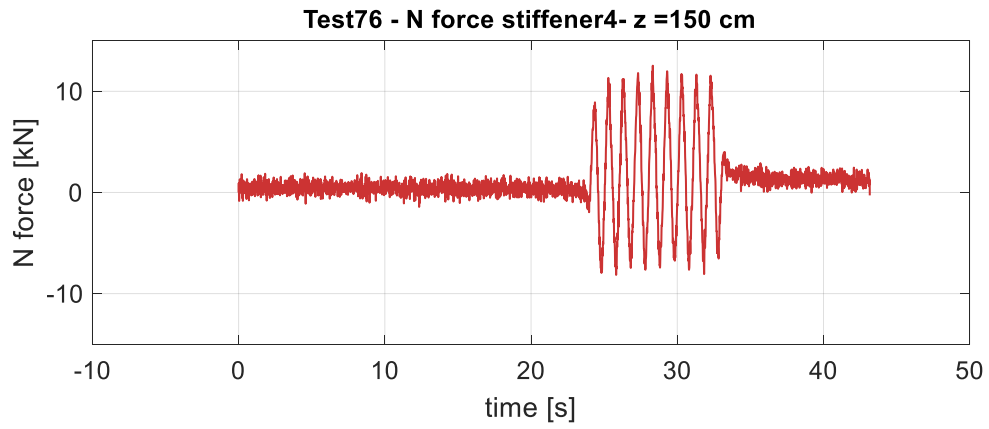
Quota Z = 49 cm: montante 7



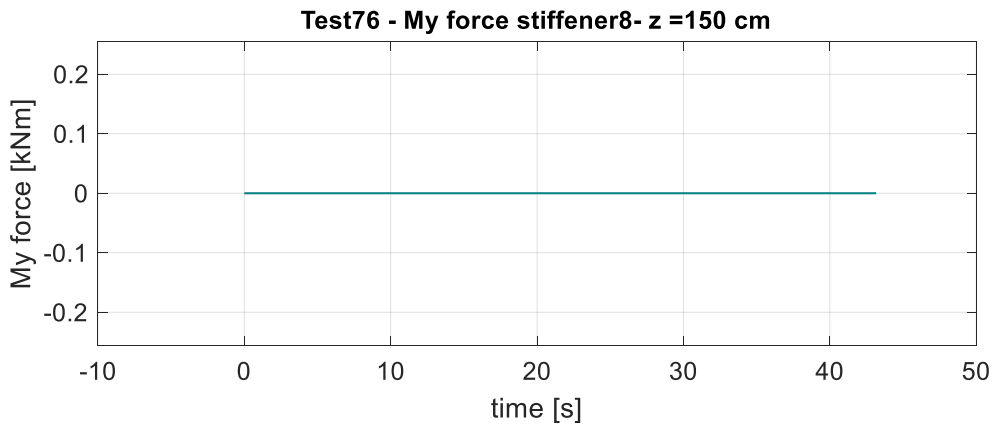
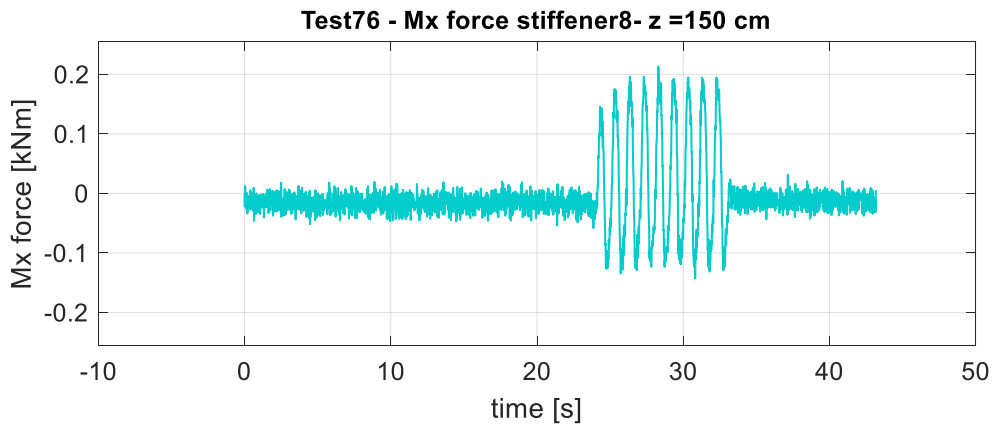
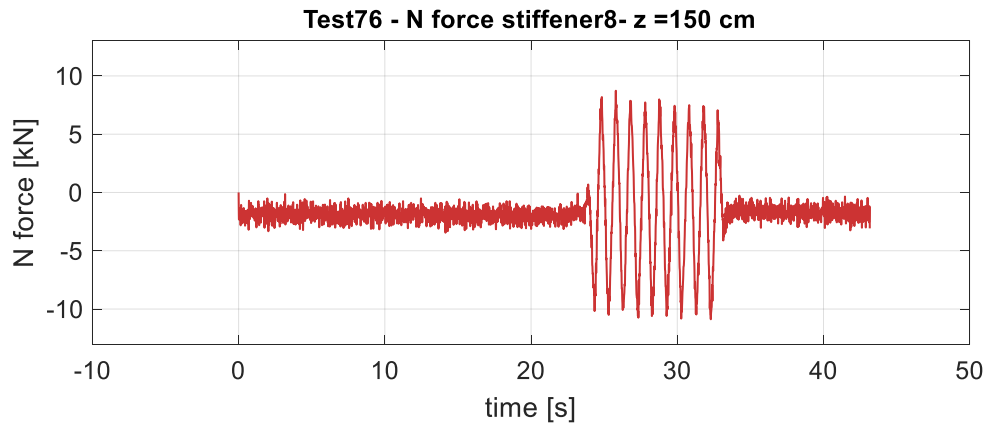
Quota Z = 49 cm: montante 8



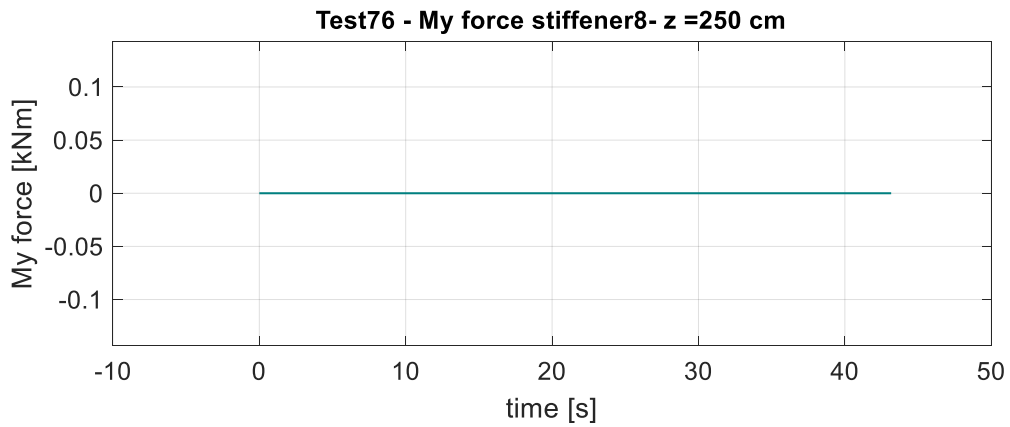
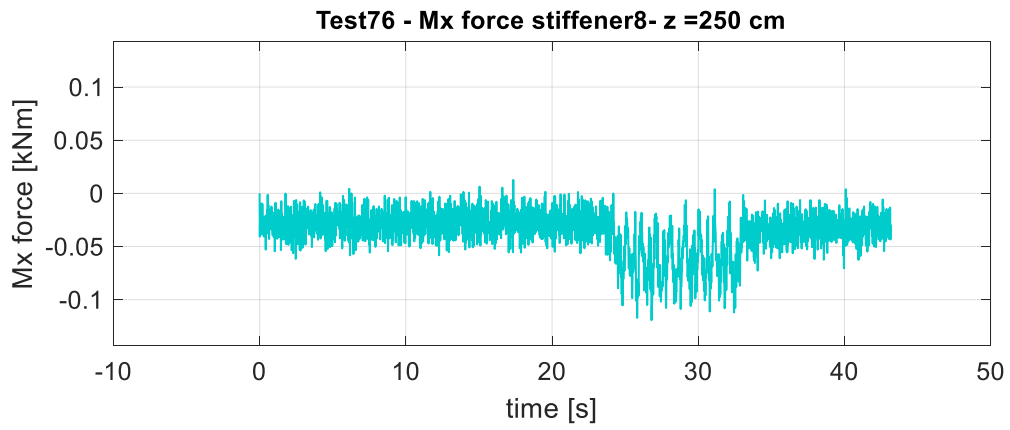
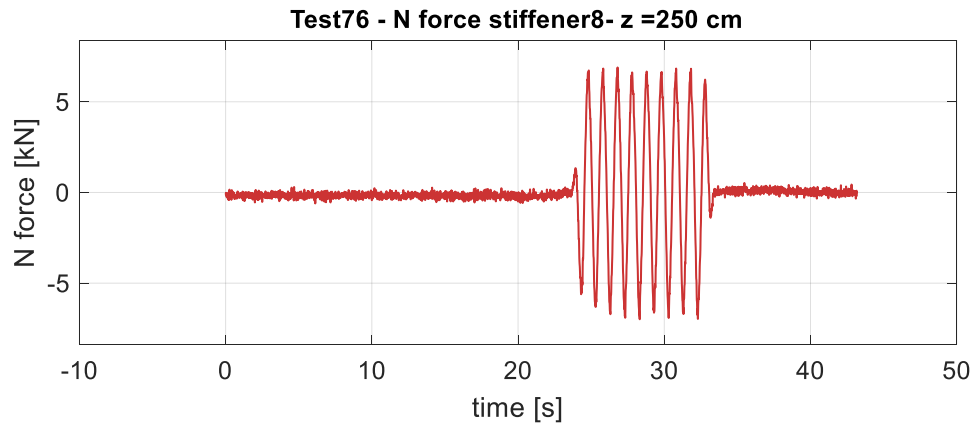
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

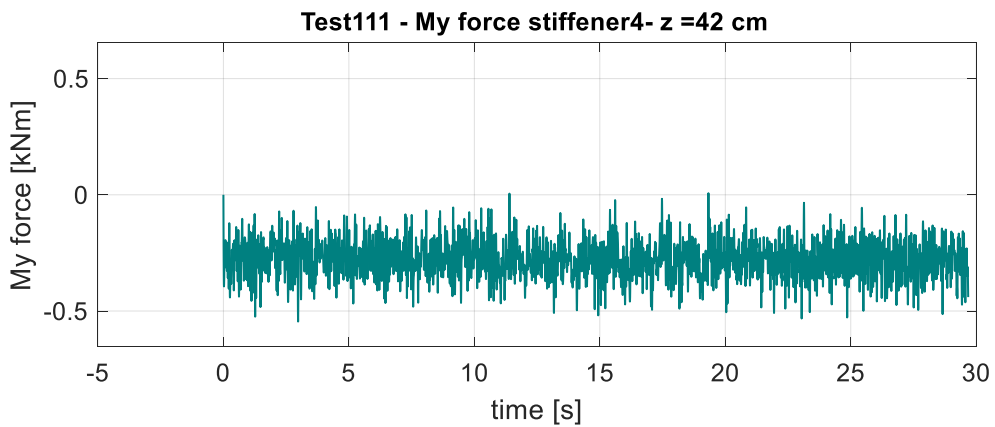
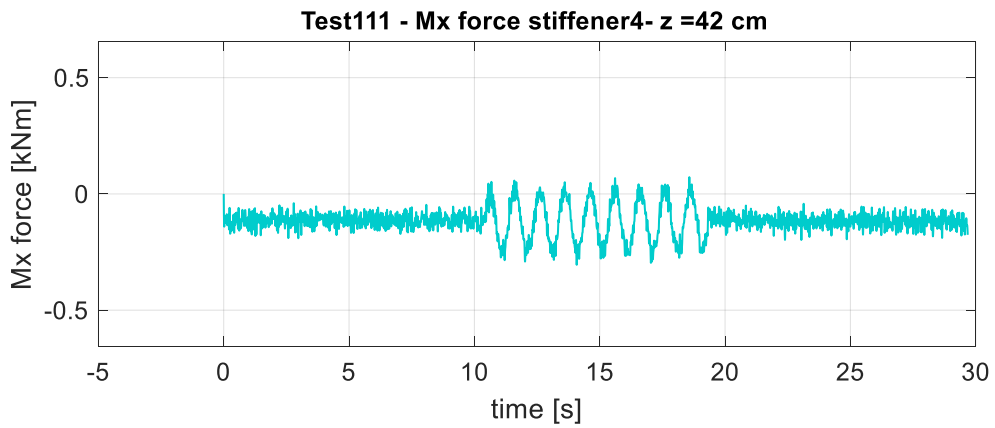
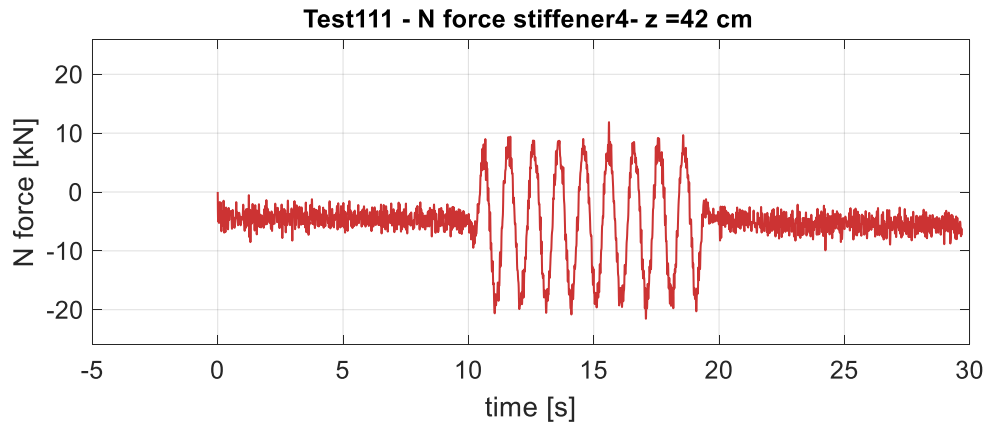


Quota Z = 250 cm: montante 8

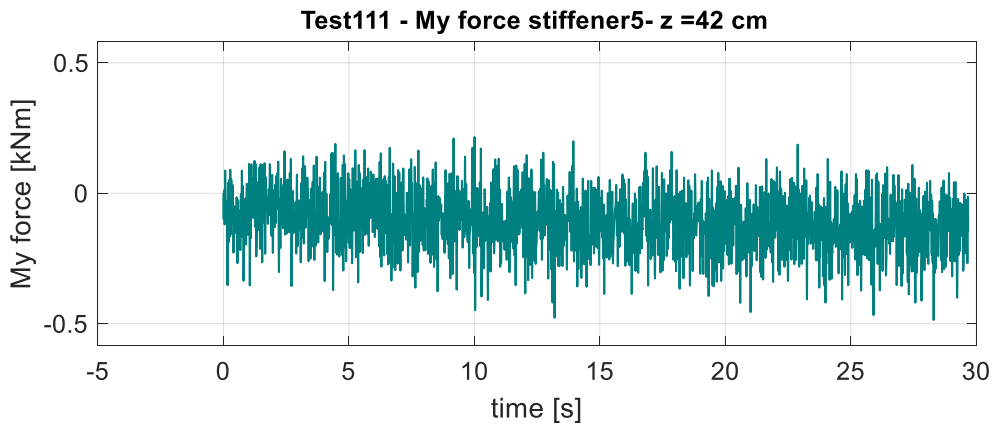
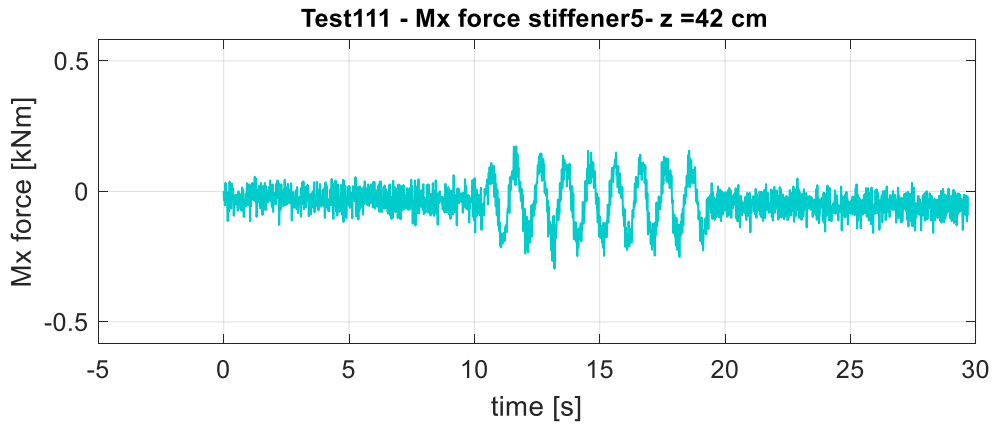
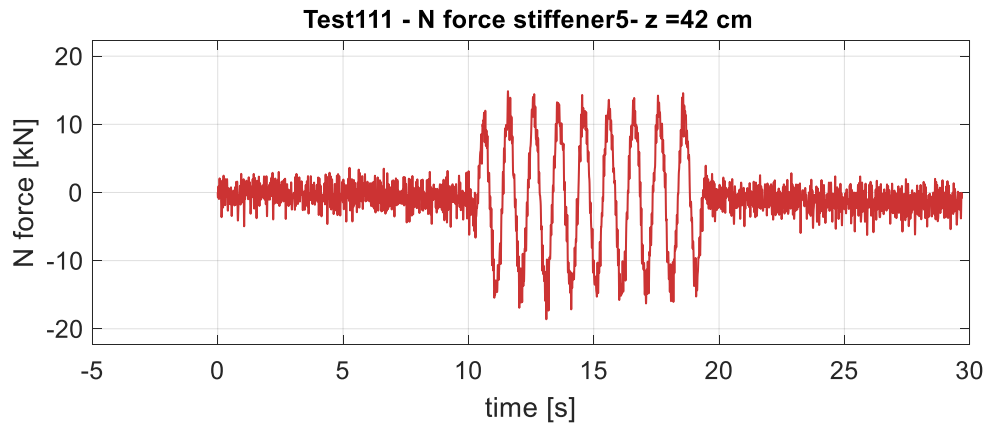


Sinusoidal input 1 Hz 0.3 g post – compaction: Test 111

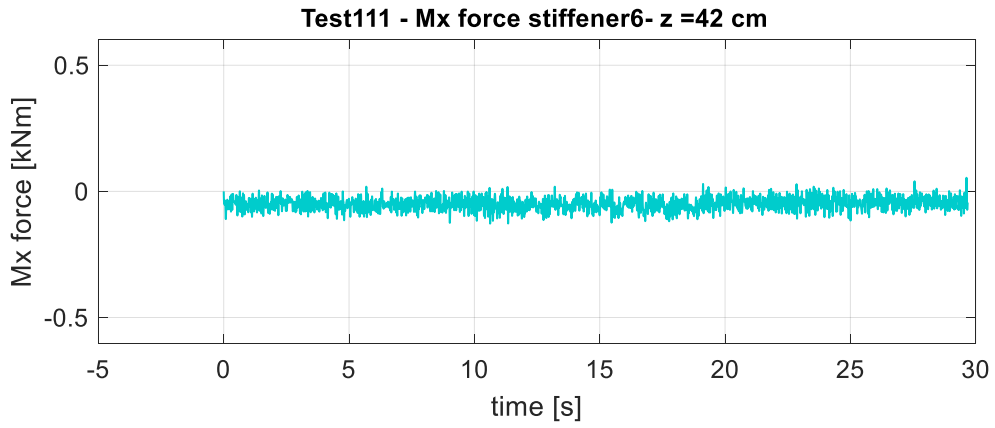
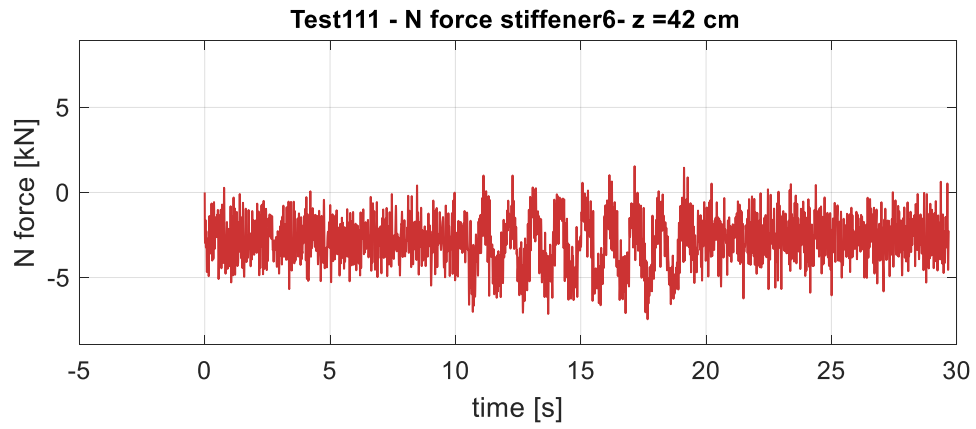
Quota Z = 42 cm: montante 4



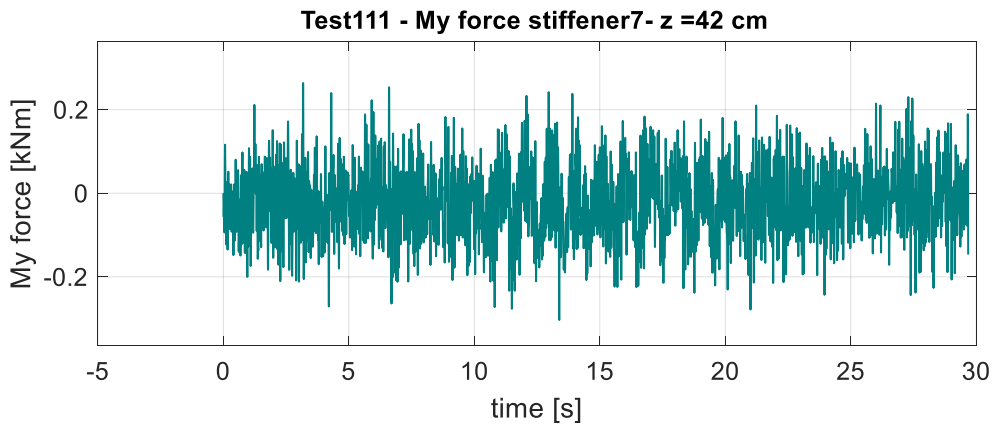
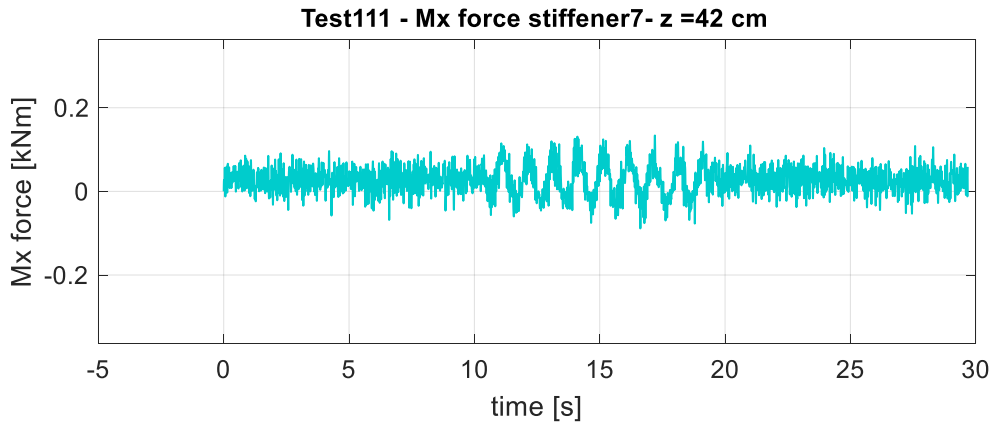
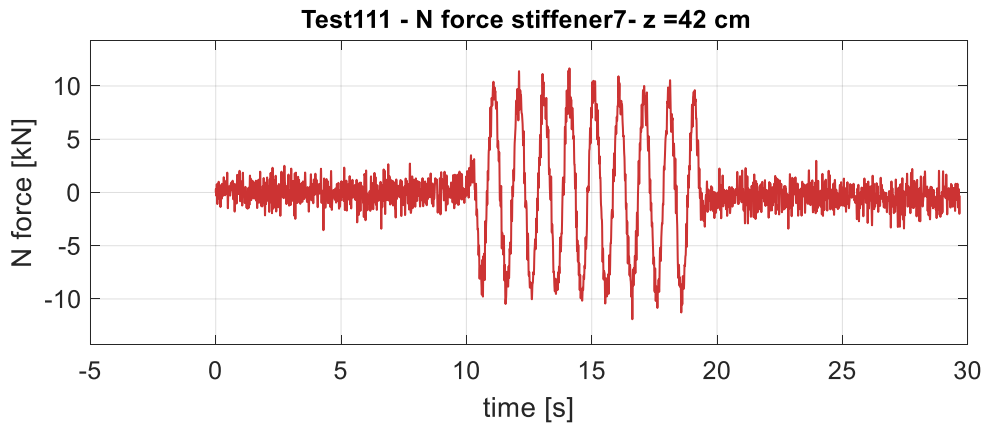
Quota Z = 42 cm: montante 5



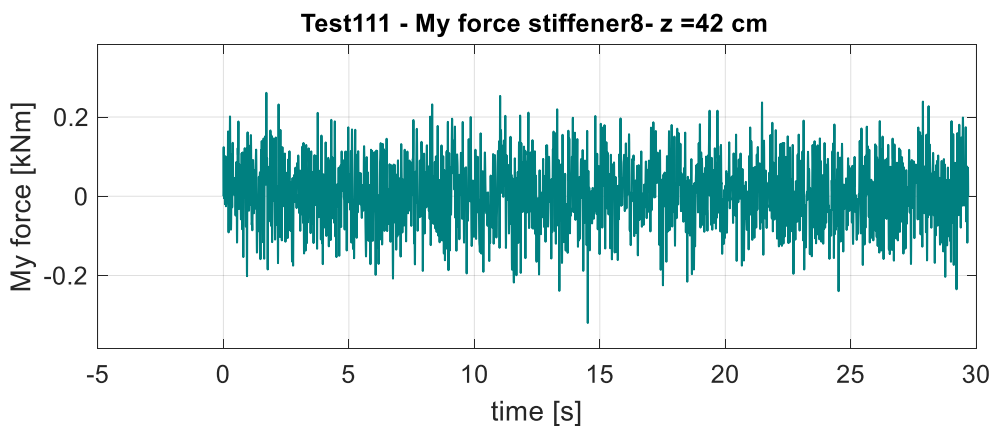
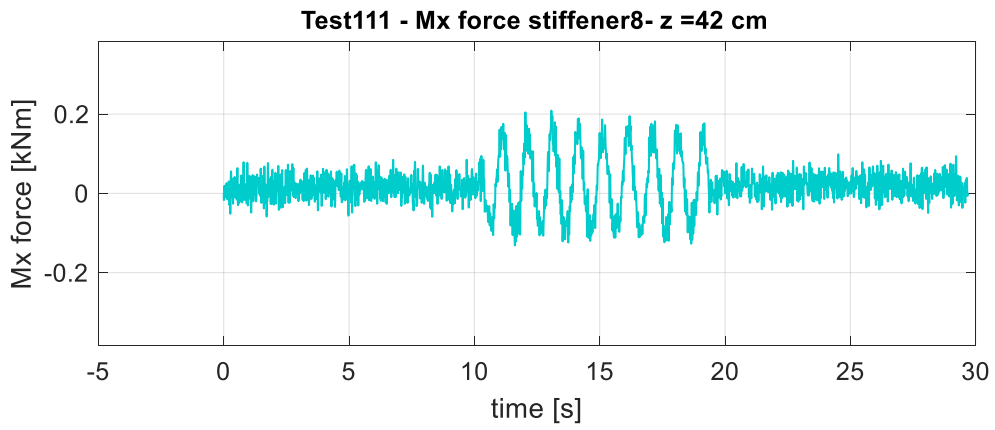
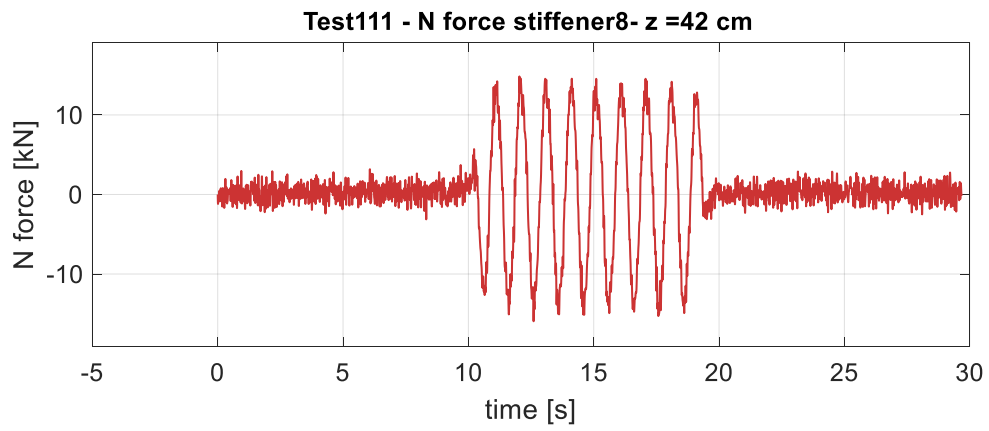
Quota Z = 42 cm: montante 6



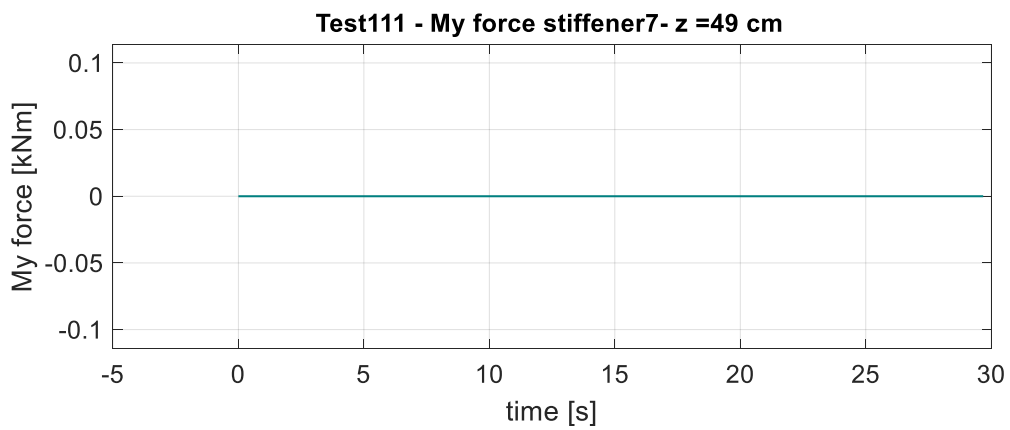
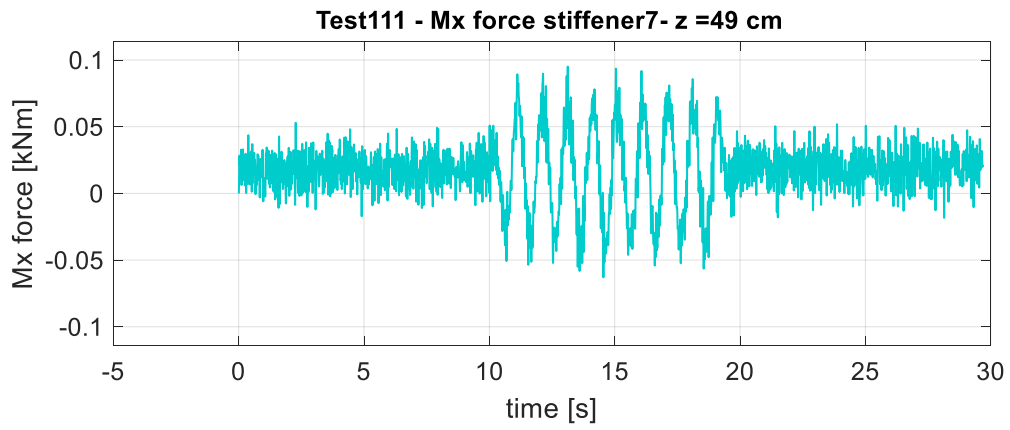
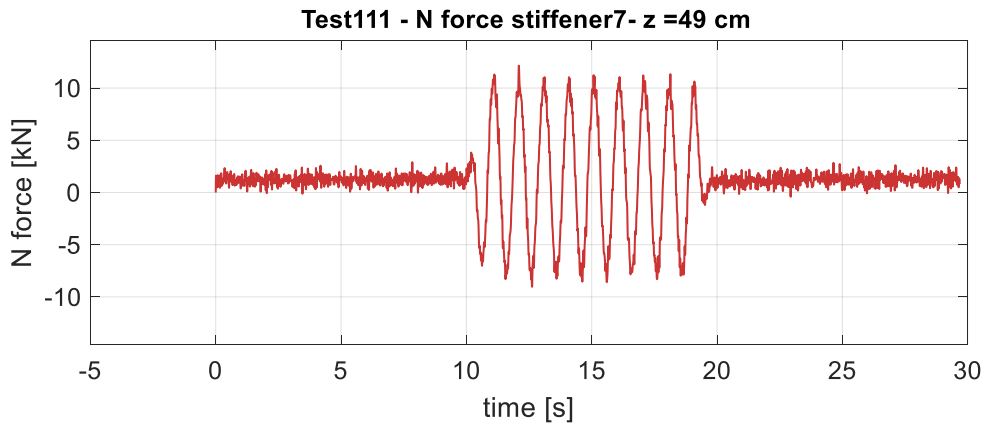
Quota Z = 42 cm: montante 7



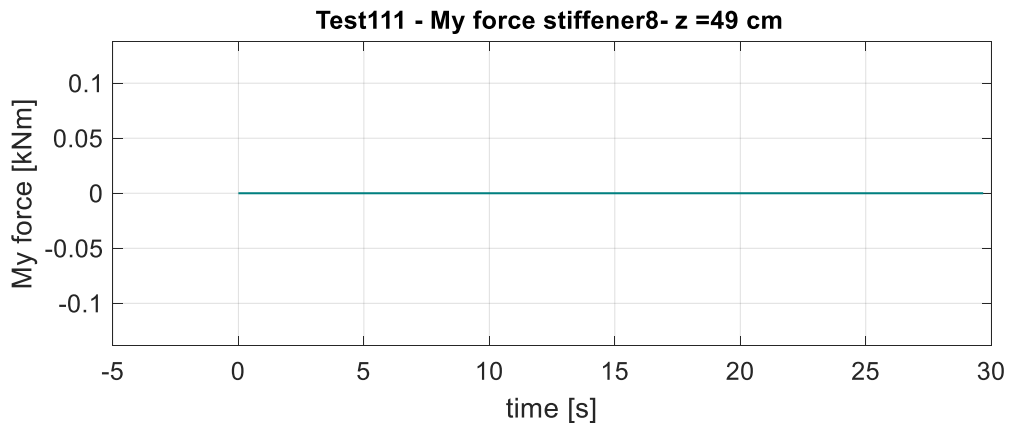
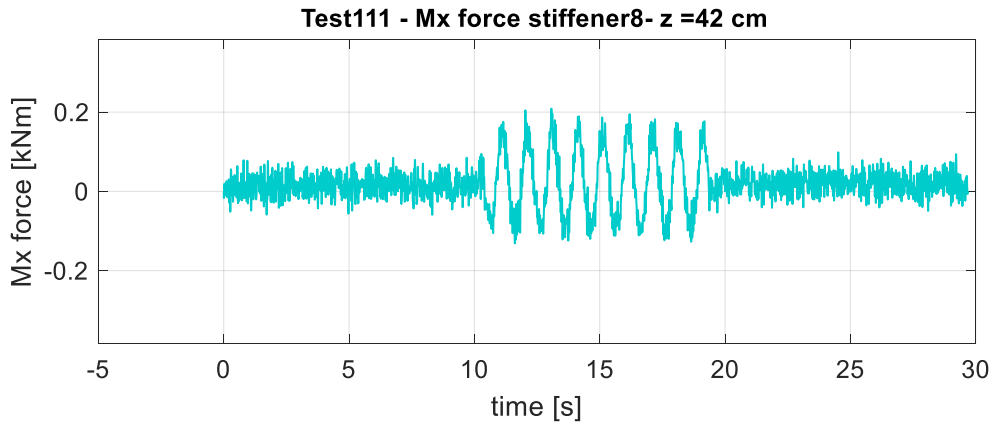
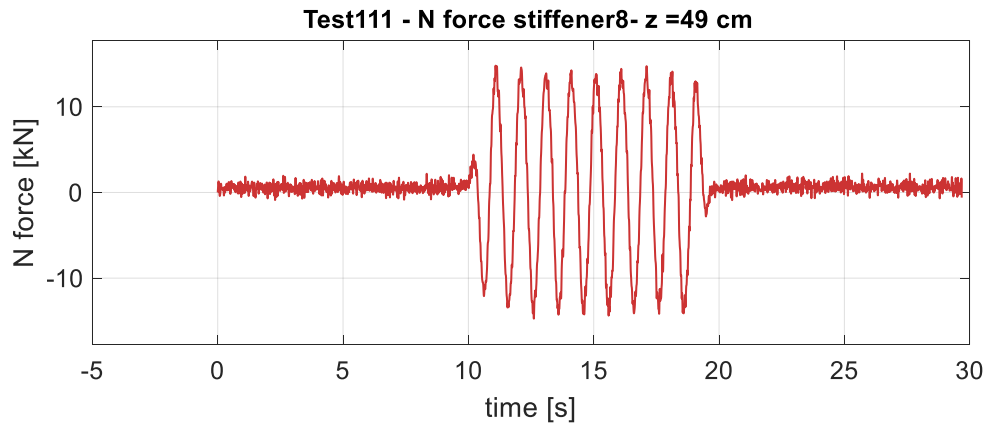
Quota Z = 42 cm: montante 8



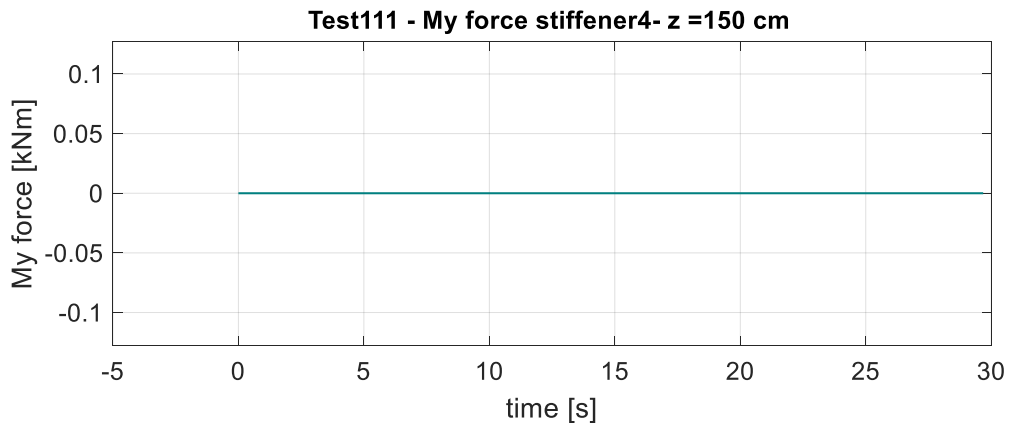
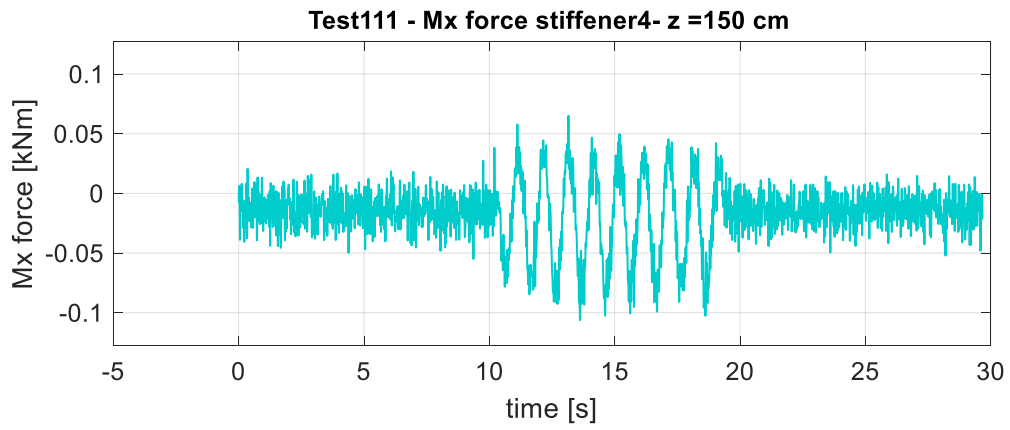
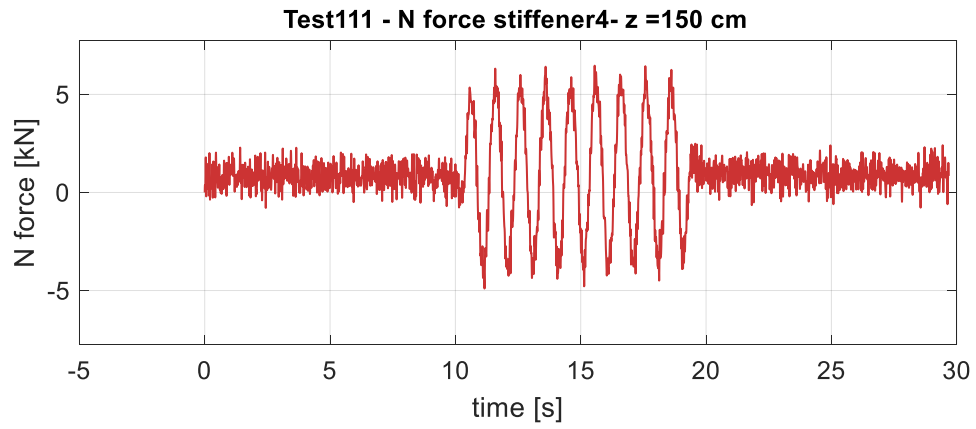
Quota Z = 49 cm: montante 7



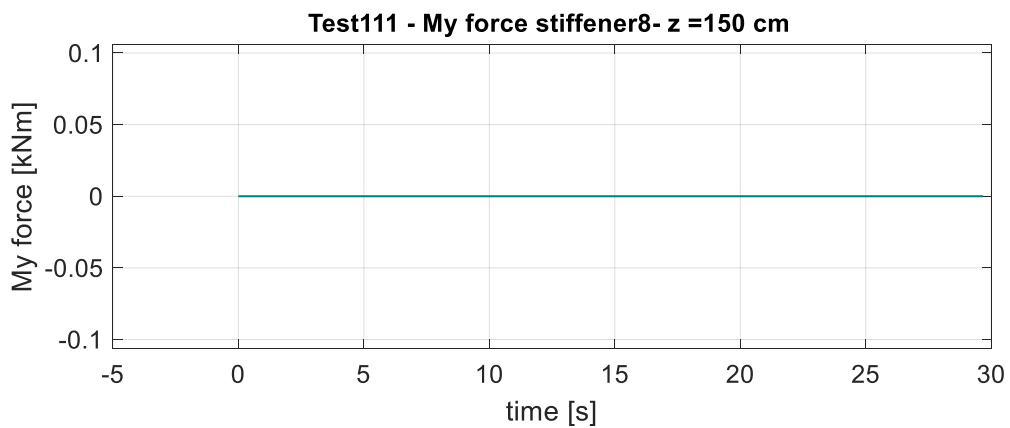
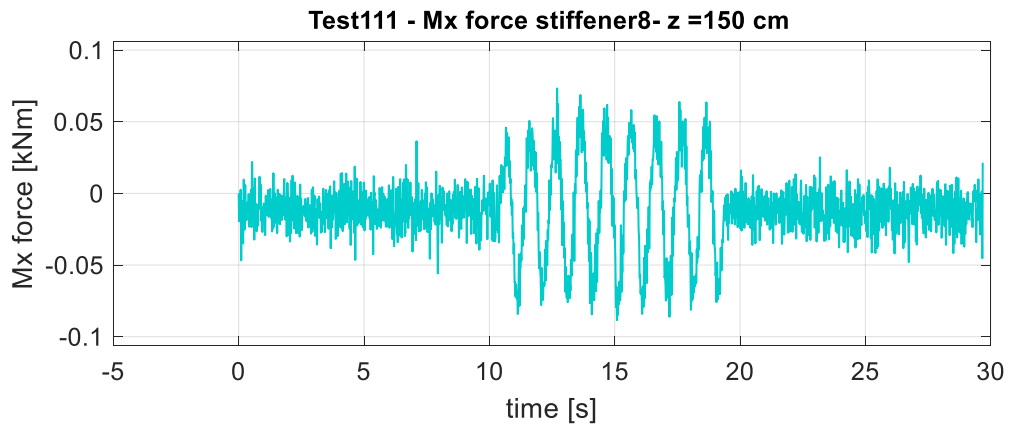
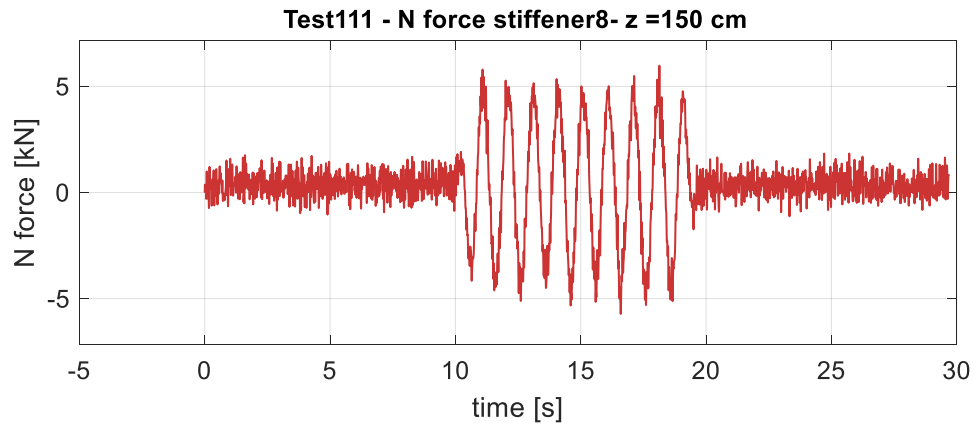
Quota Z = 49 cm: montante 8



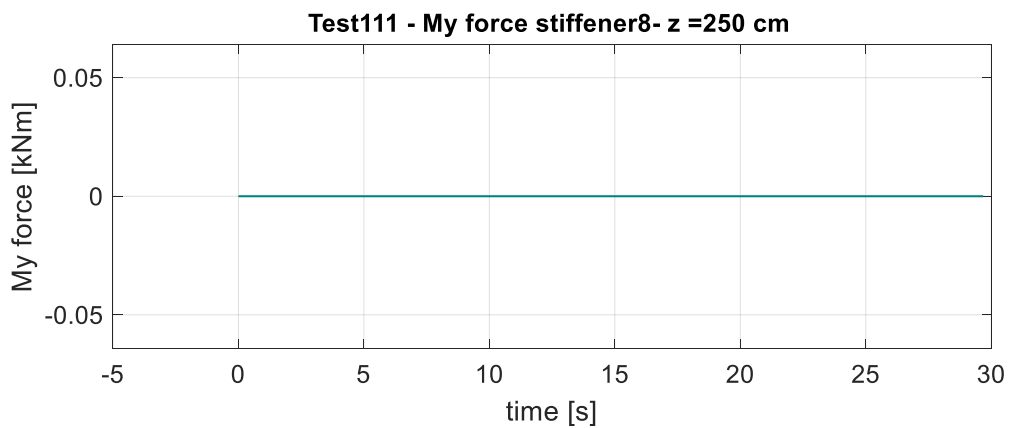
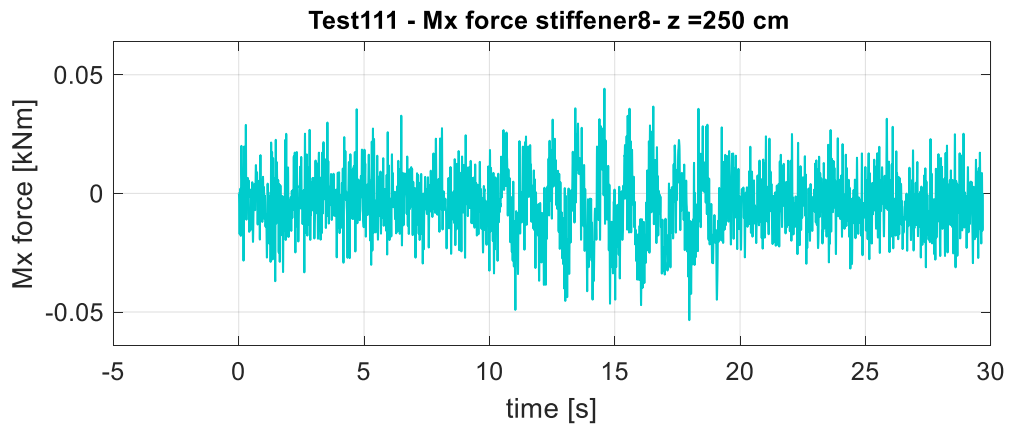
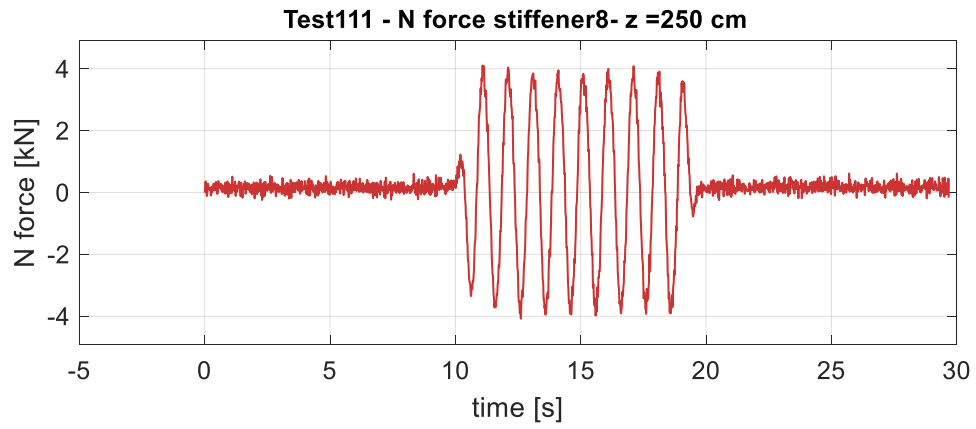
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

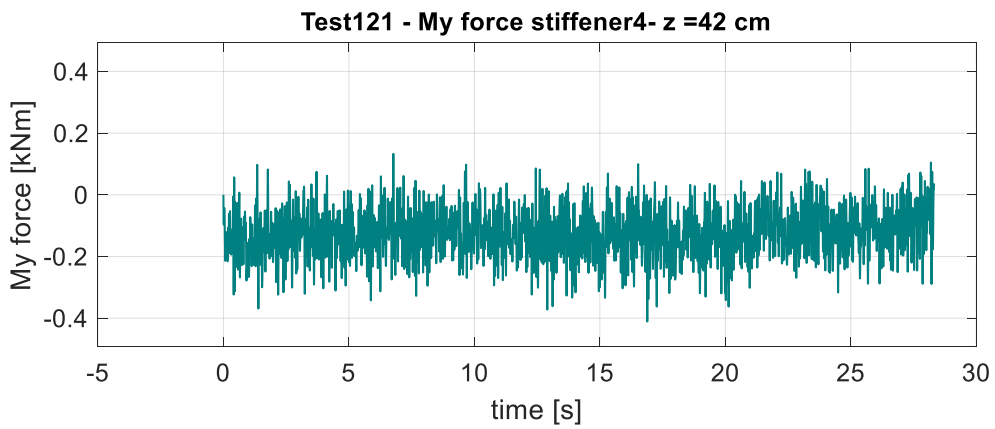
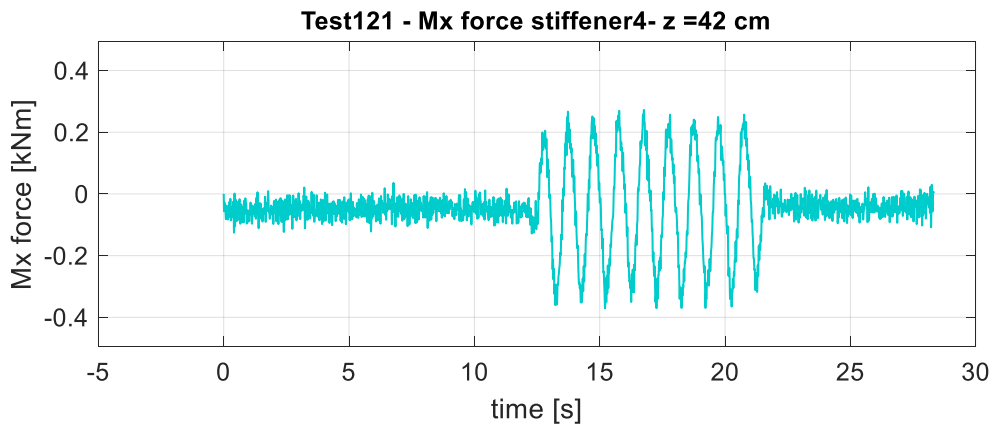
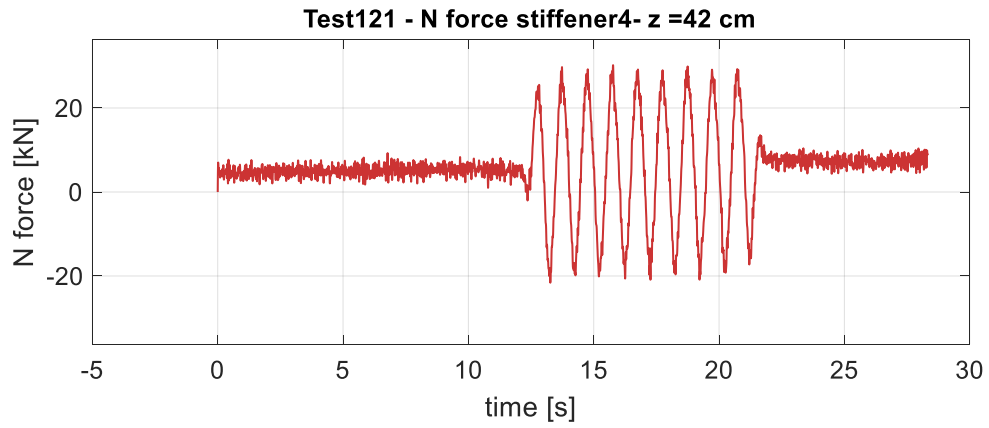


Quota Z = 250 cm: montante 8

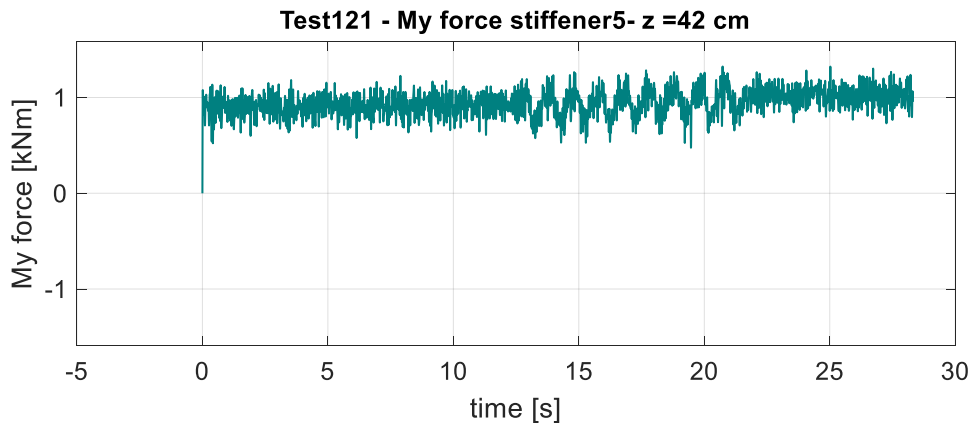
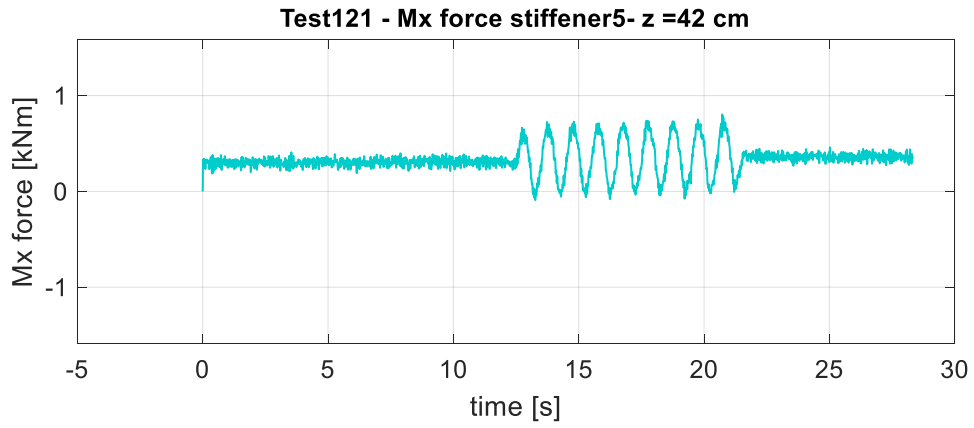
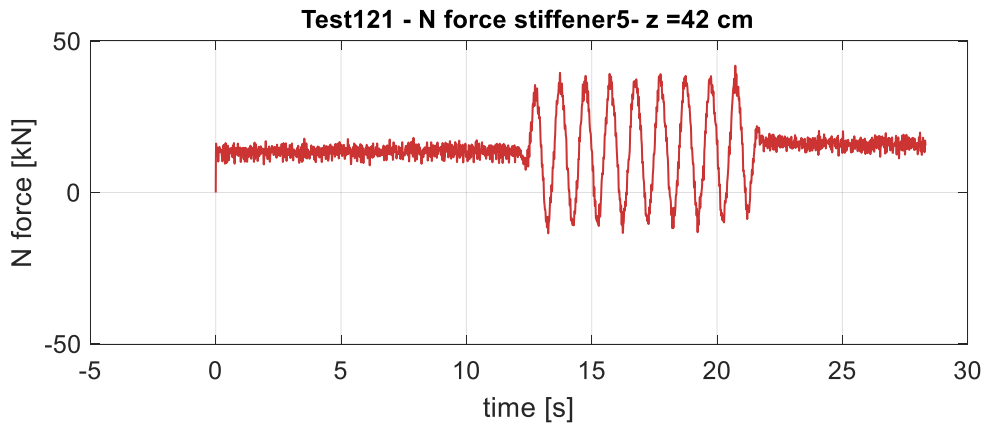


Sinusoidal input 1 Hz 0.5 g post – compaction: Test 121

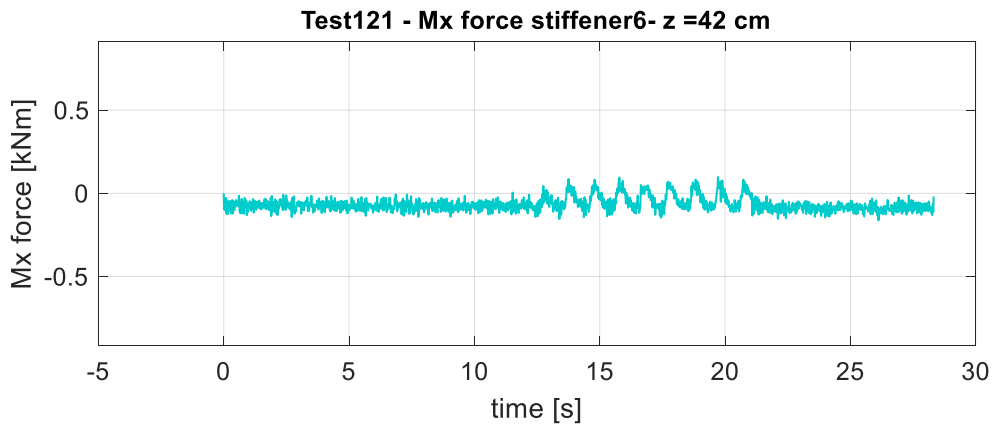
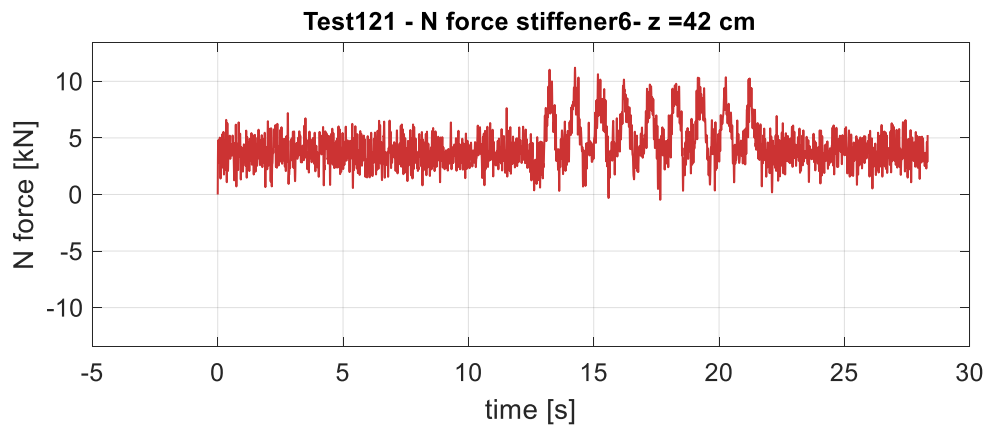
Quota Z = 42 cm: montante 4



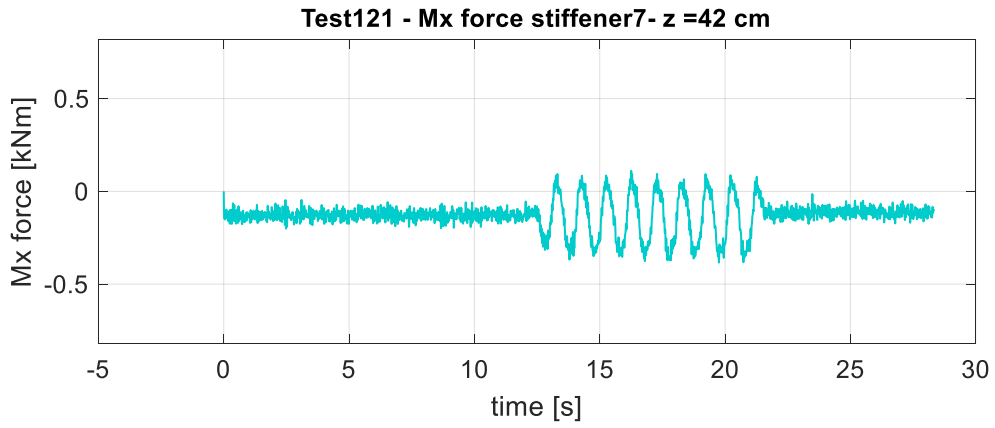
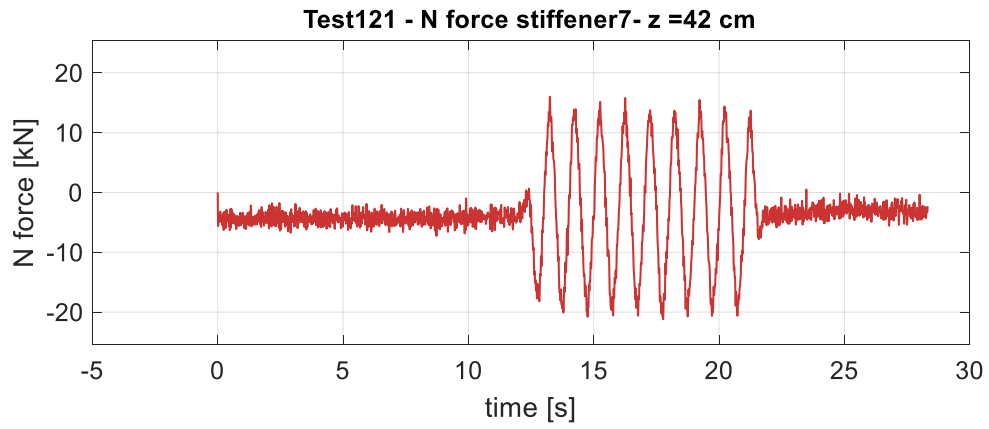
Quota Z = 42 cm: montante 5



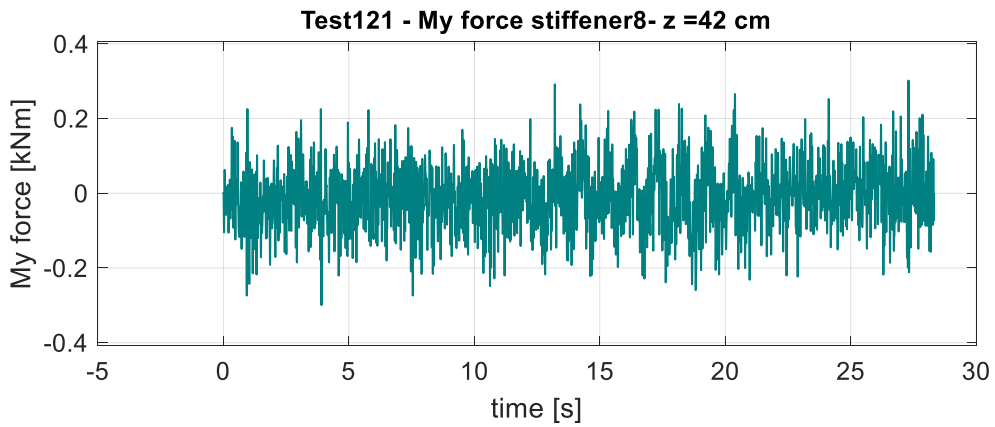
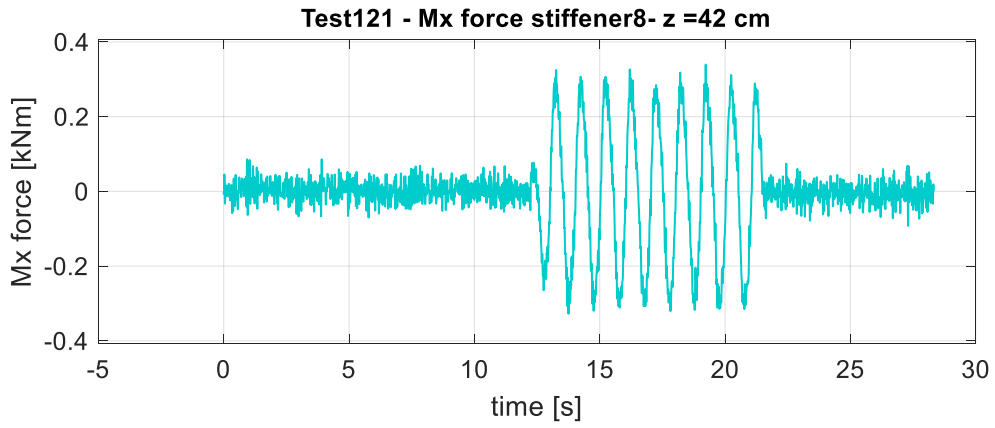
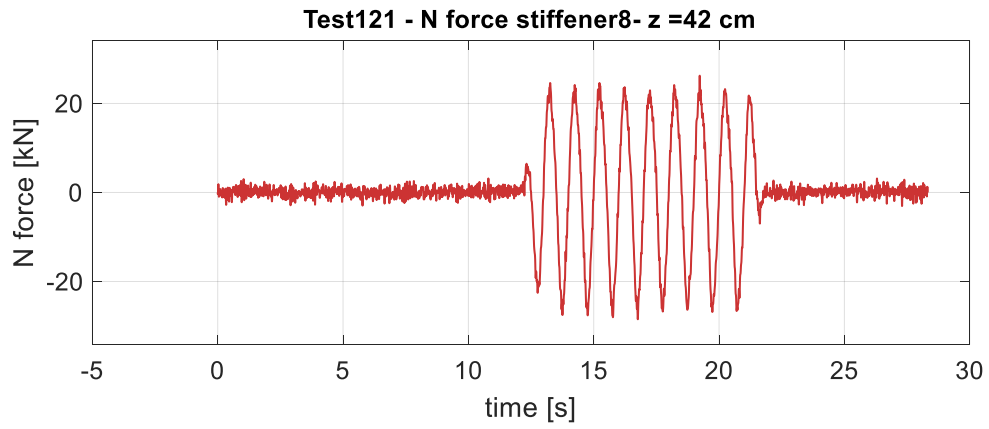
Quota Z = 42 cm: montante 6



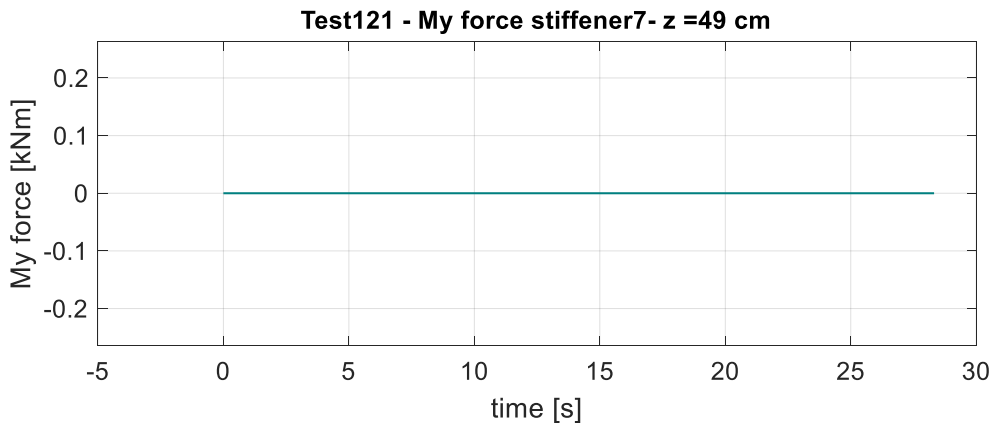
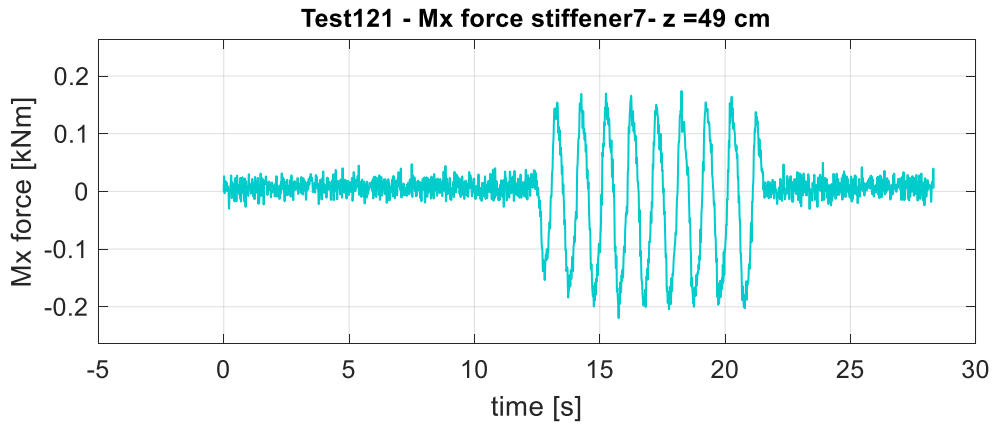
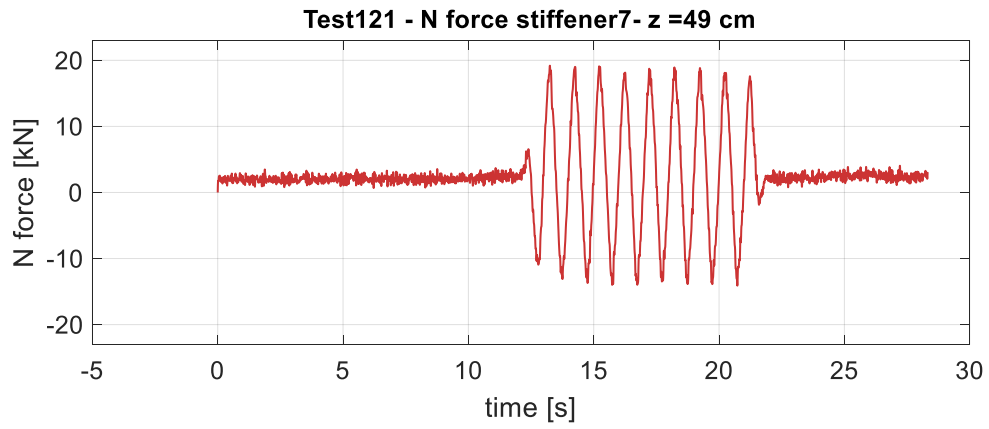
Quota Z = 42 cm: montante 7



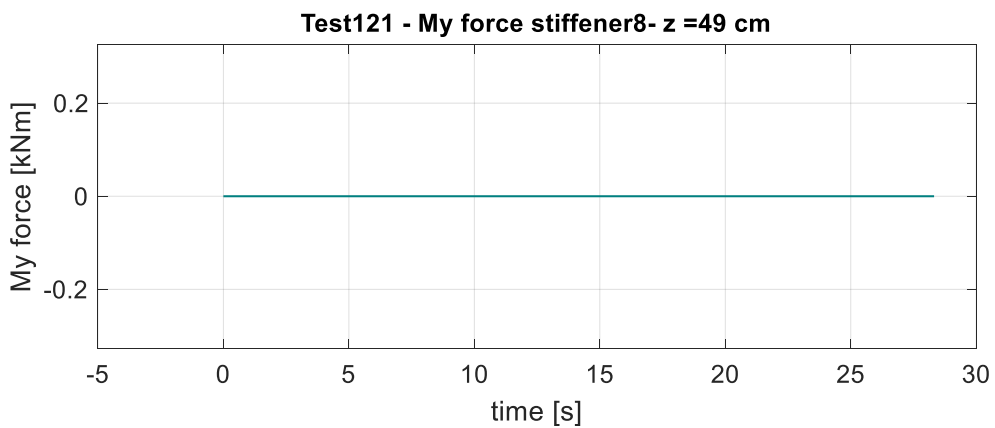
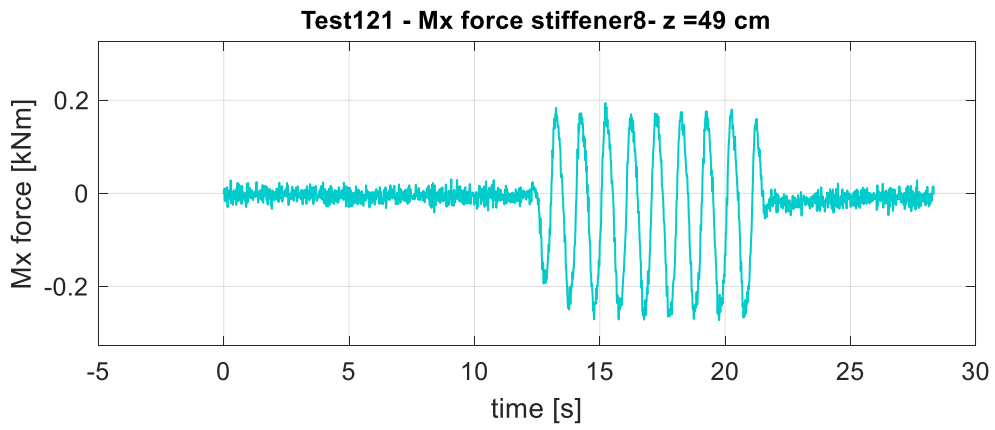
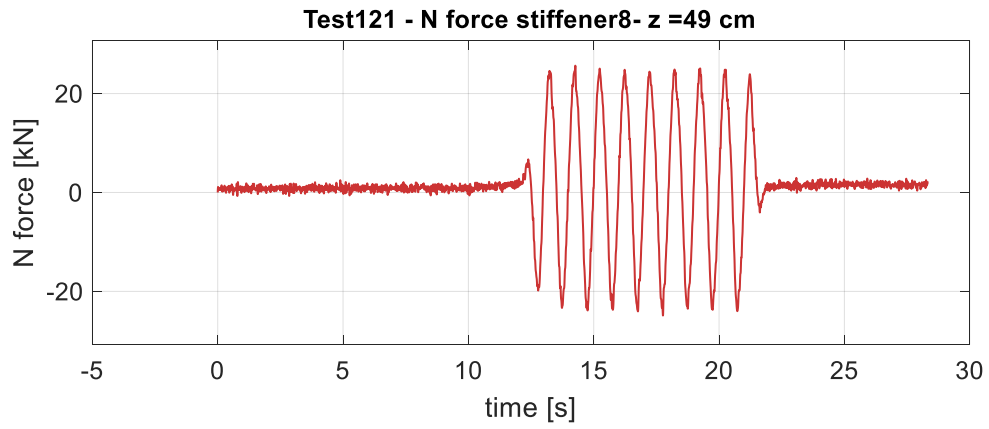
Quota Z = 42 cm: montante 8



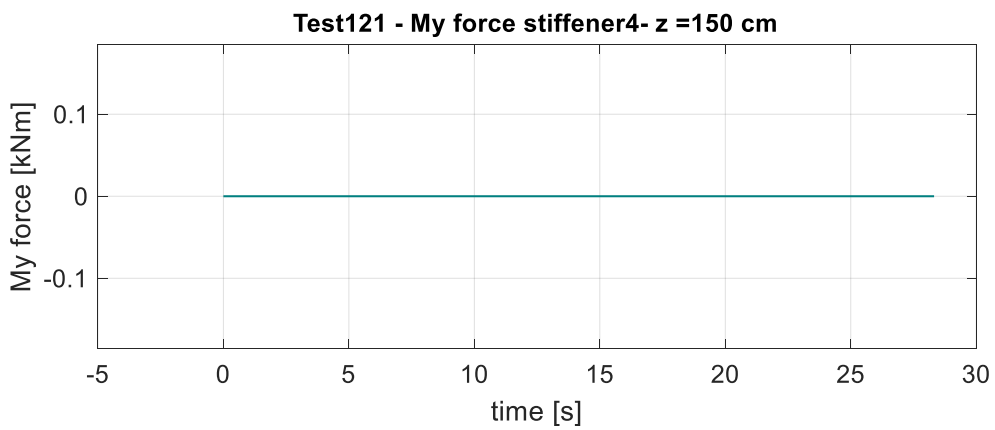
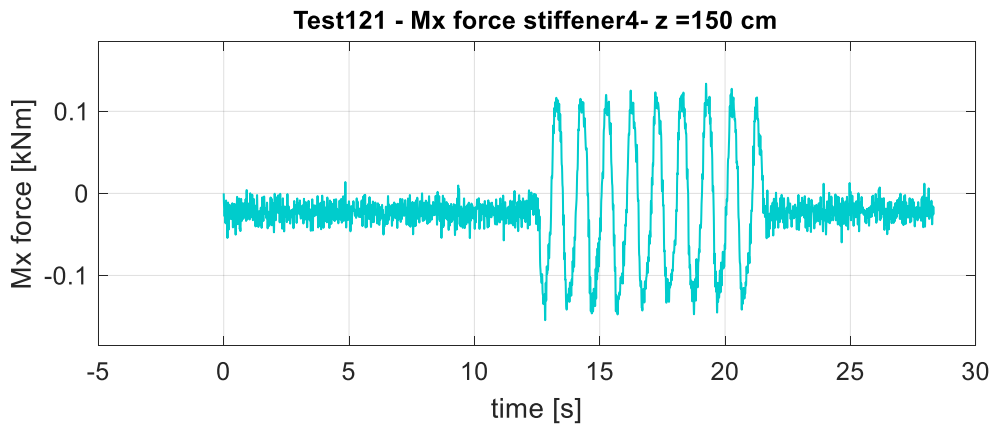
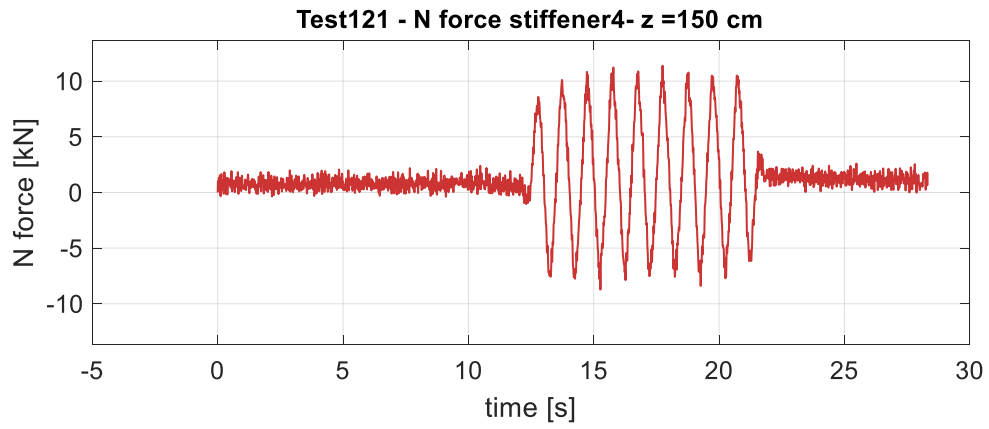
Quota Z = 49 cm: montante 7



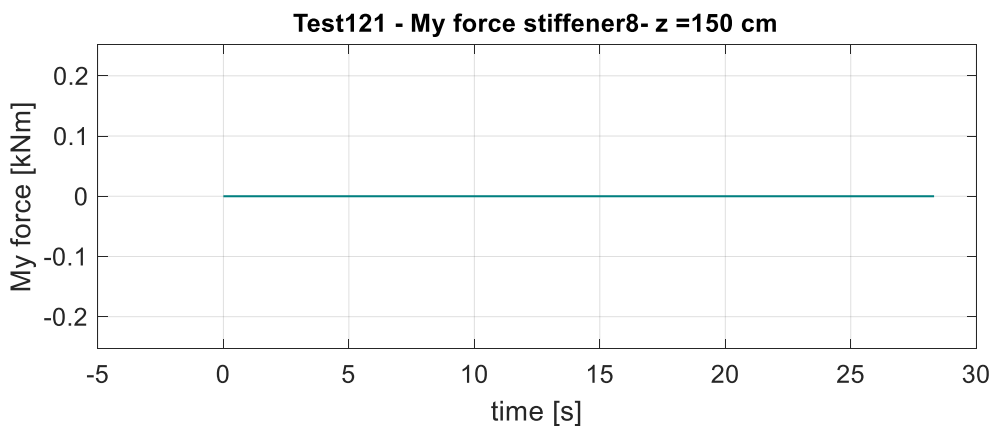
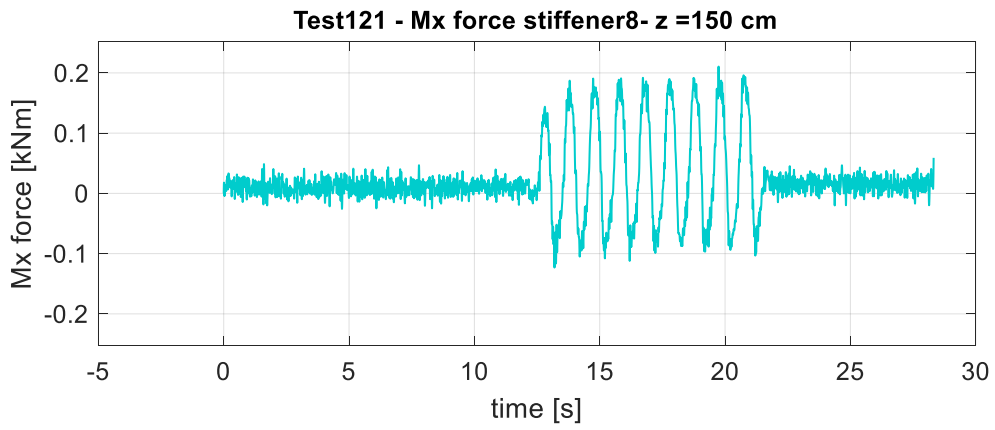
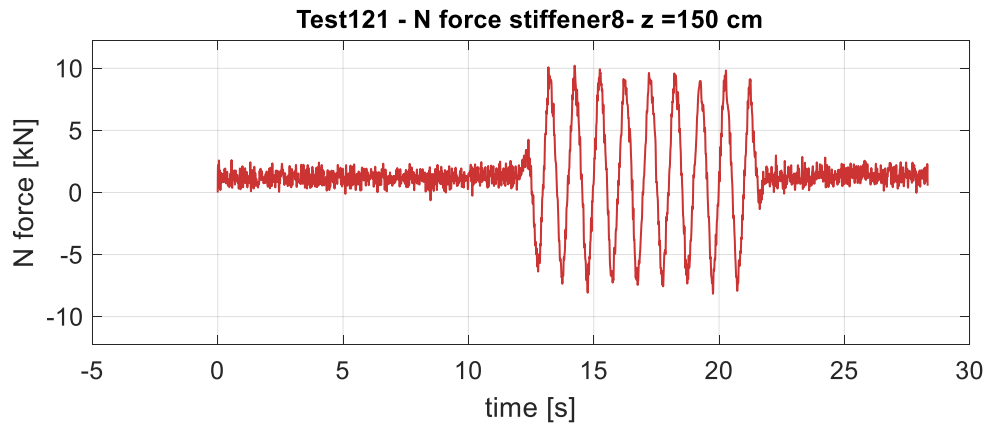
Quota Z = 49 cm: montante 8



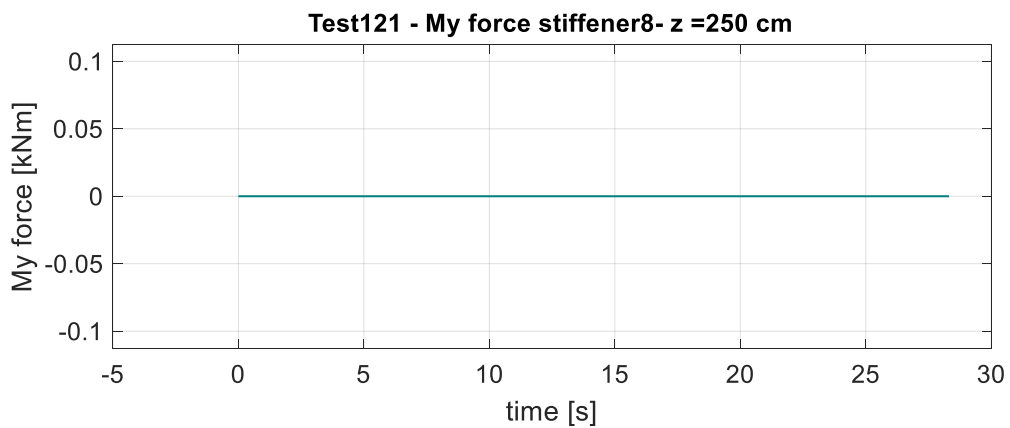
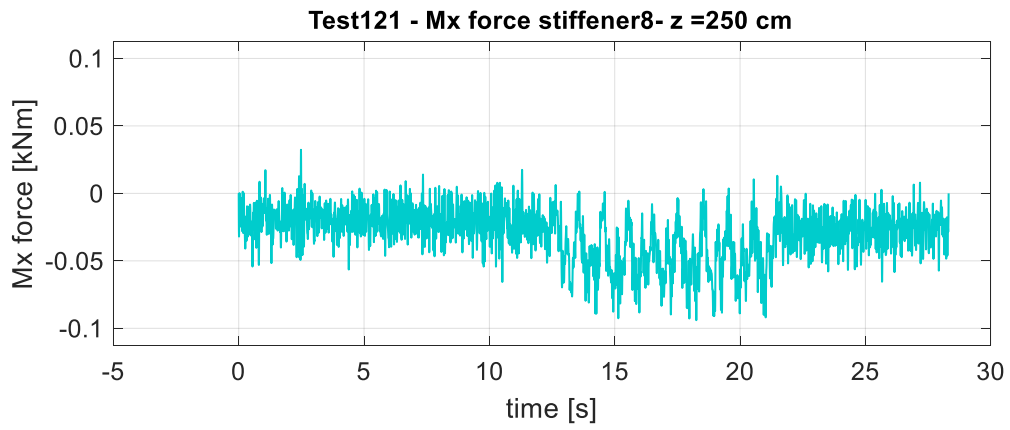
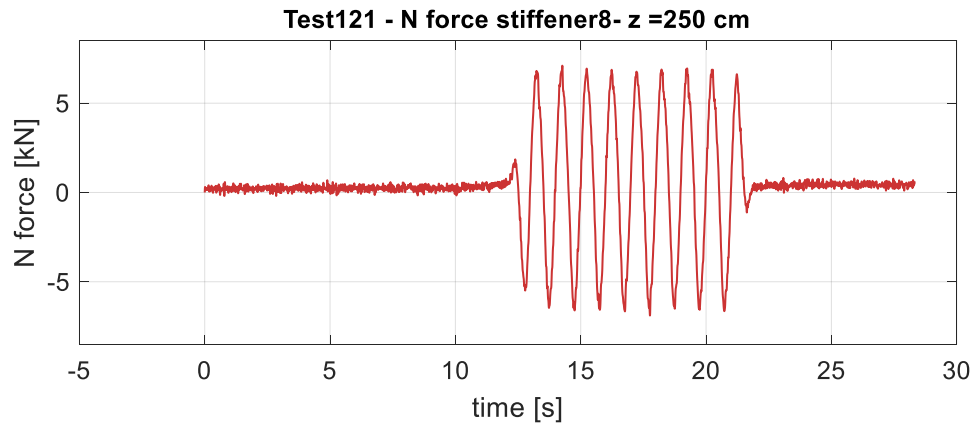
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

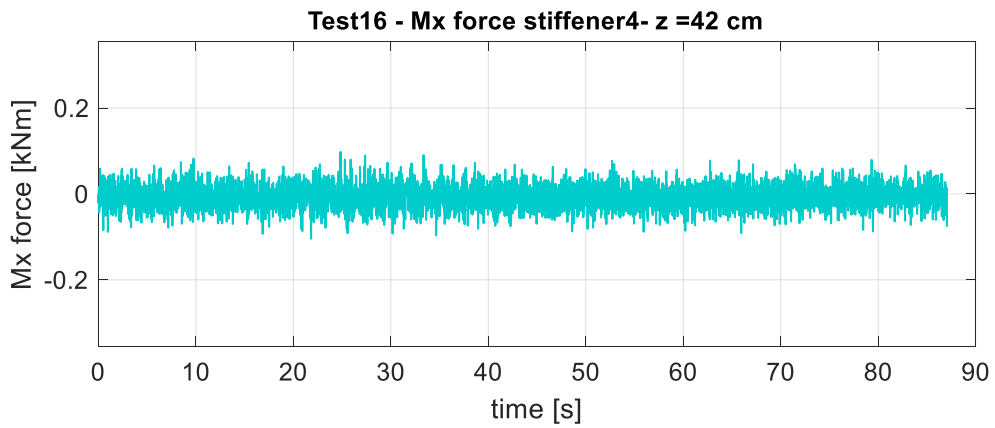
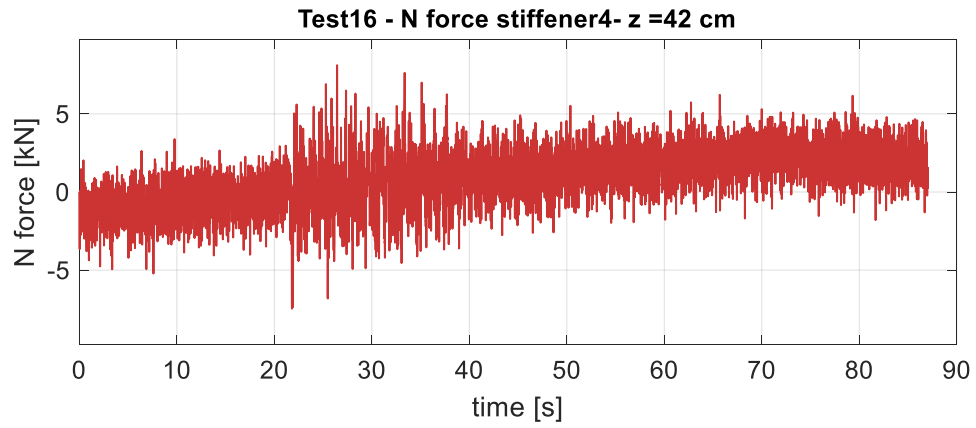


Quota Z = 250 cm: montante 8

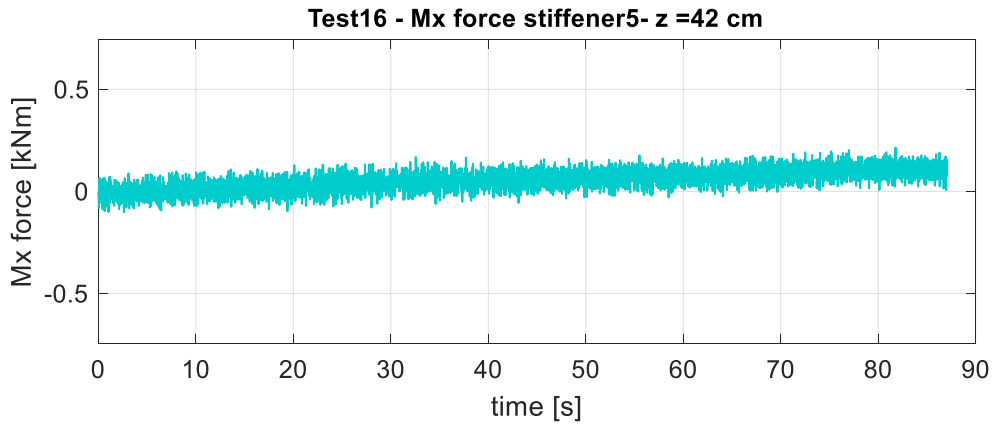
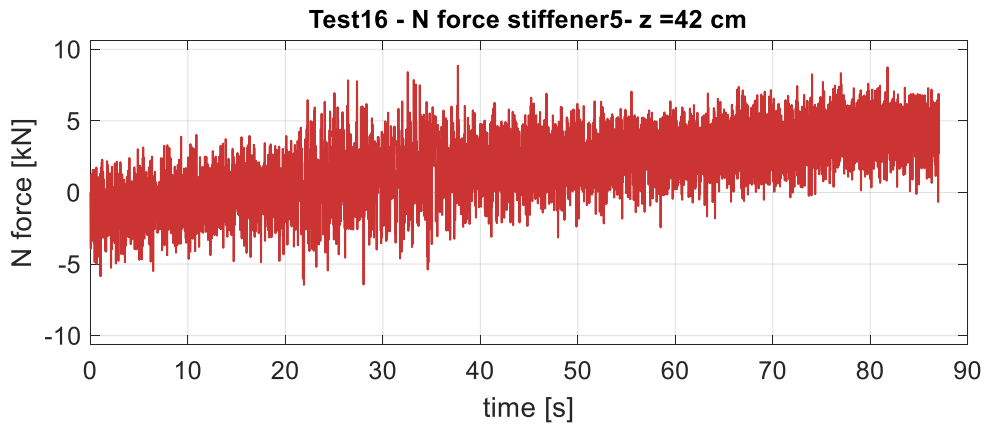


Earthquake input A1 0.1 g: Test 16

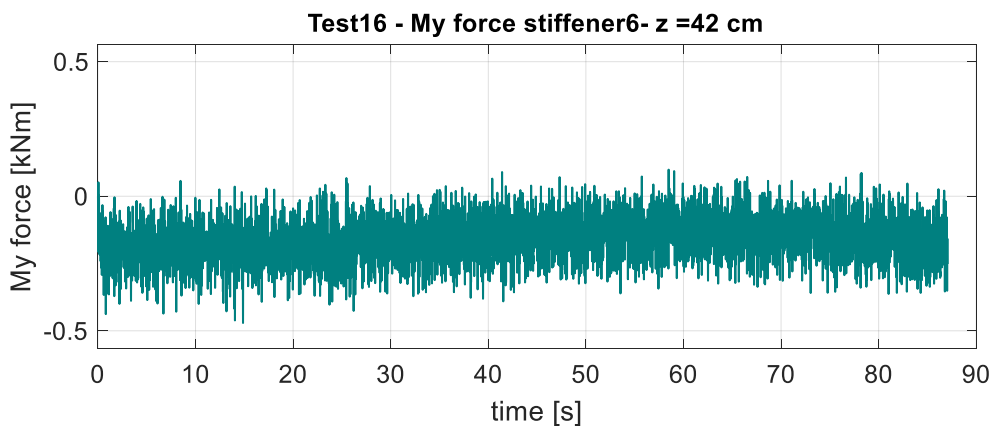
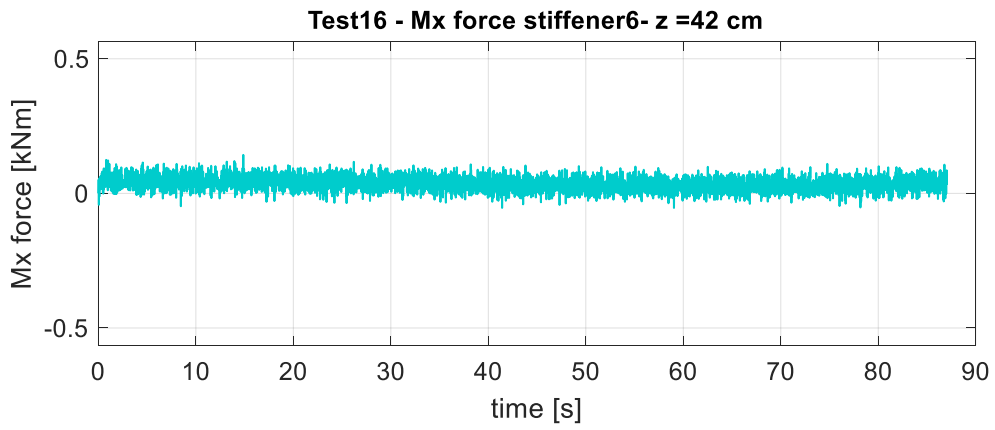
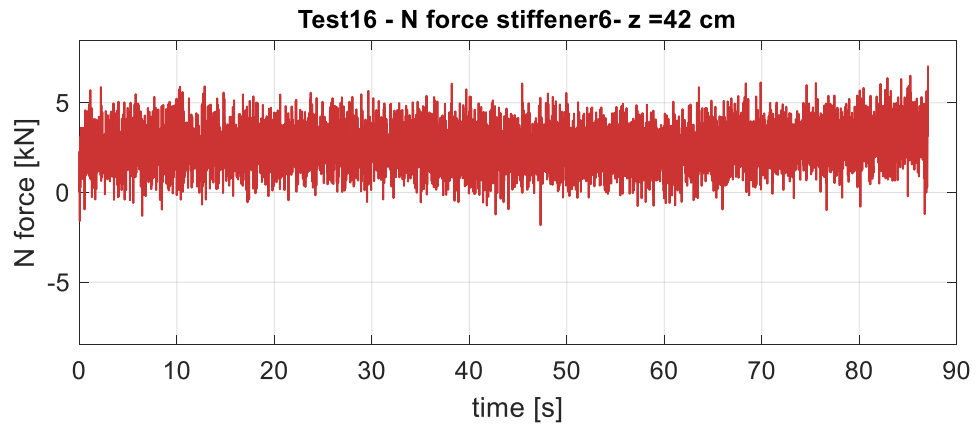
Quota Z = 42 cm: montante 4



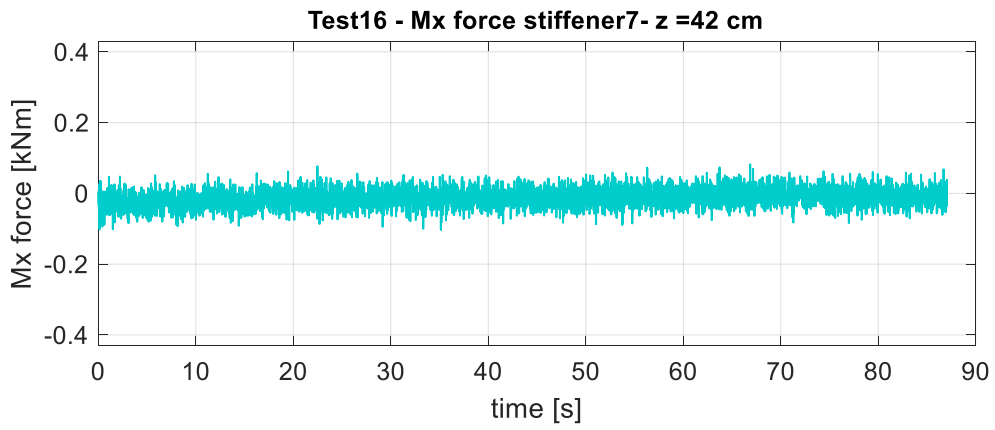
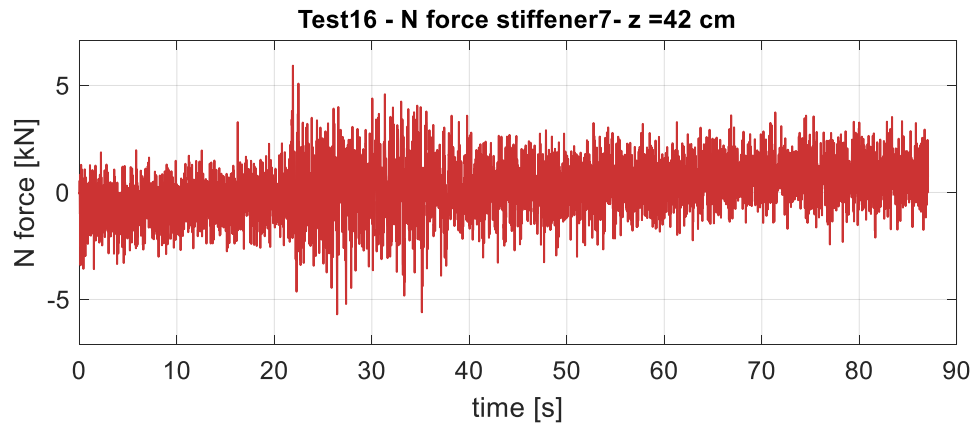
Quota Z = 42 cm: montante 5



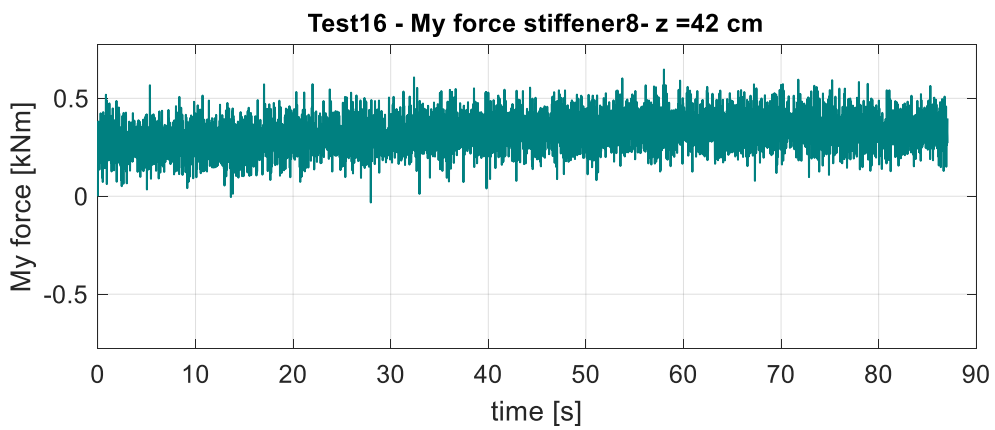
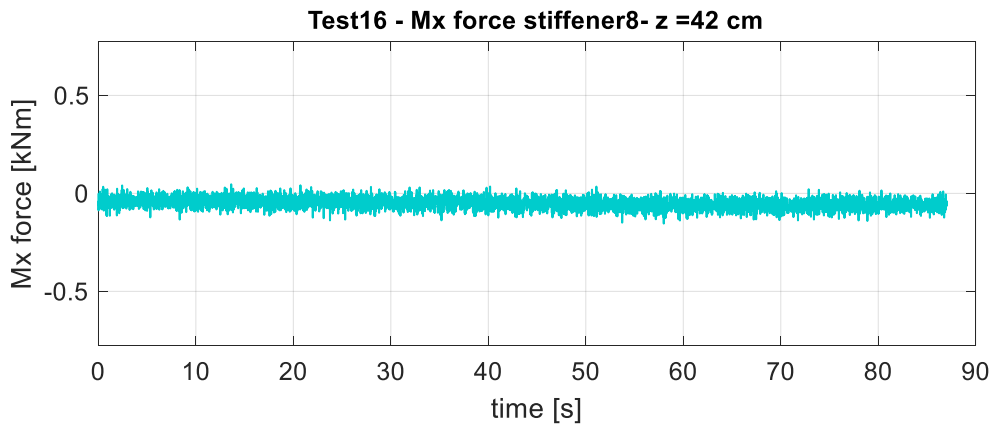
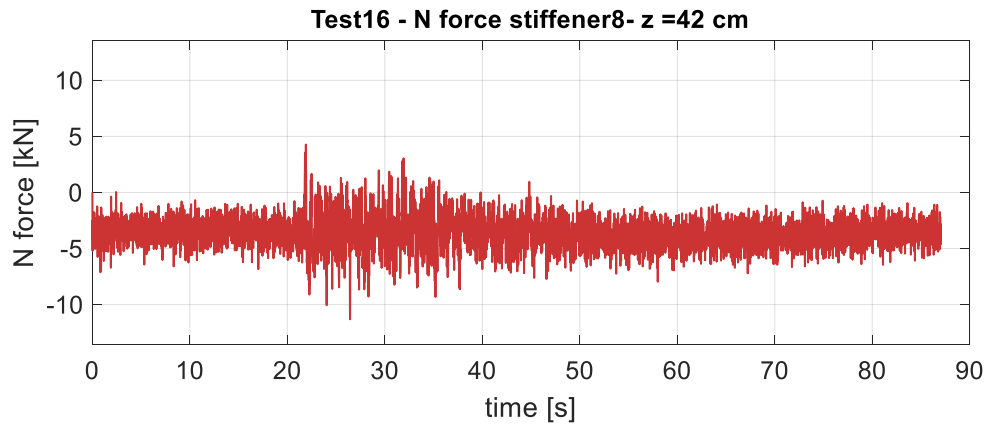
Quota Z = 42 cm: montante 6



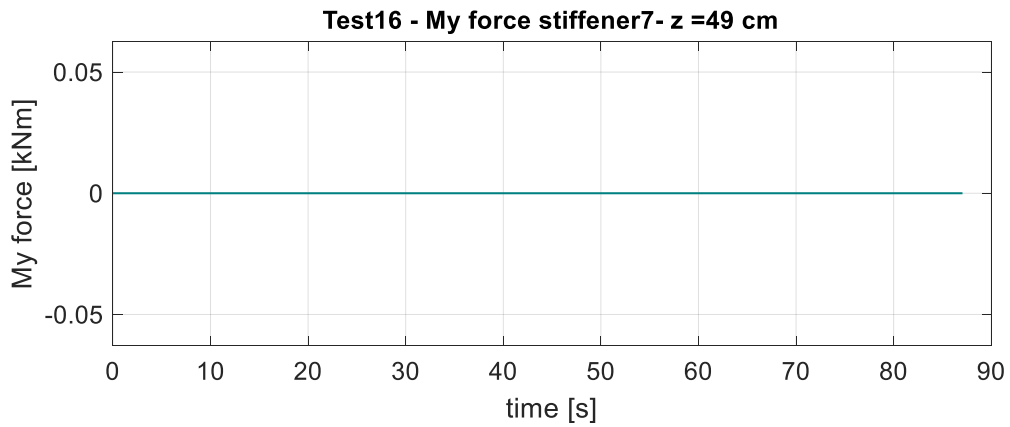
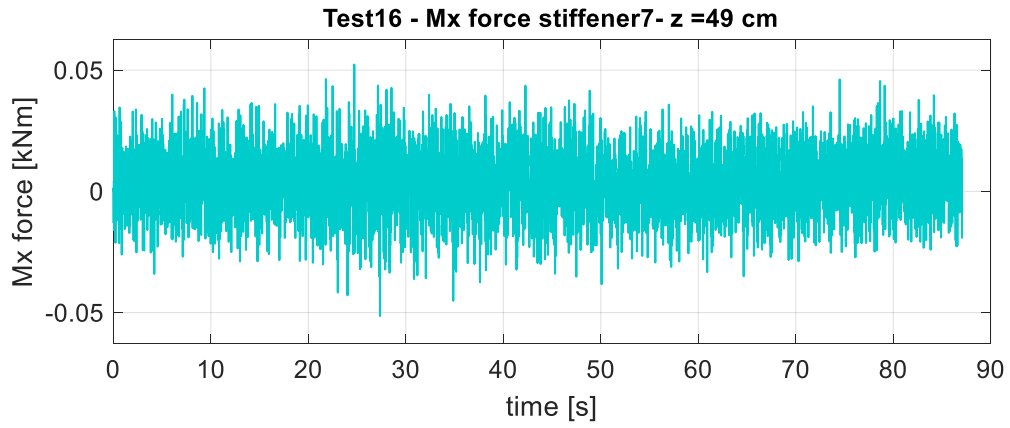
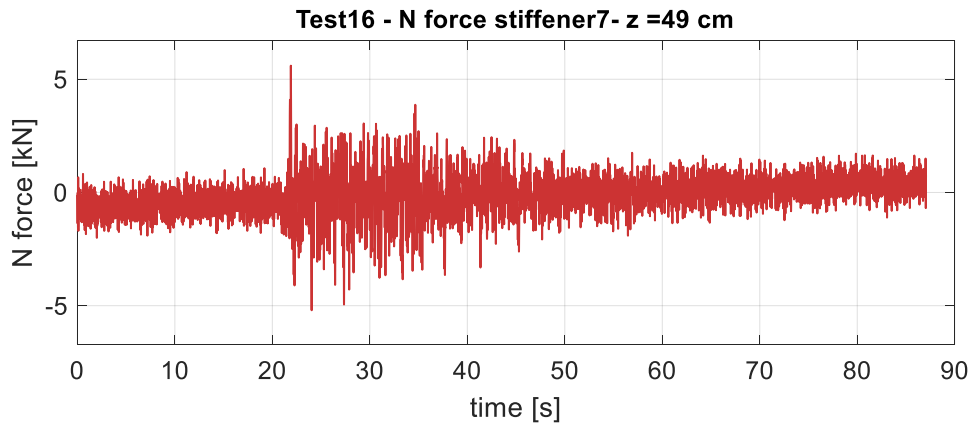
Quota Z = 42 cm: montante 7



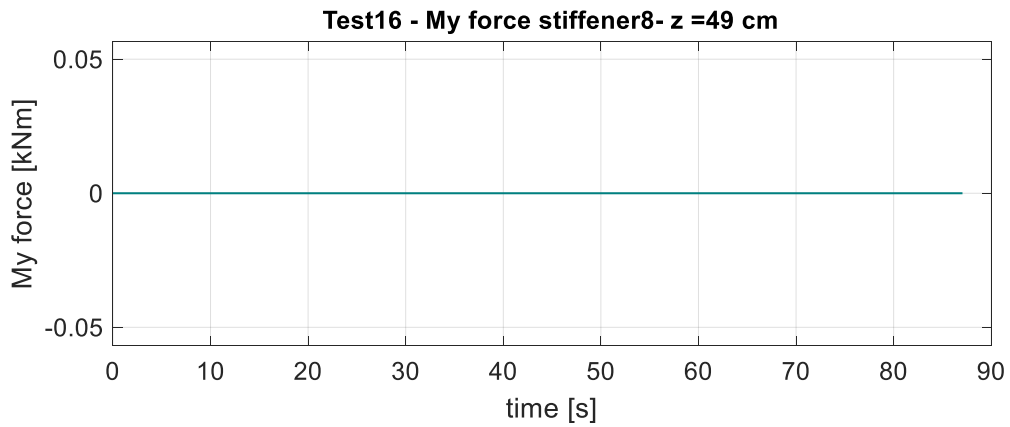
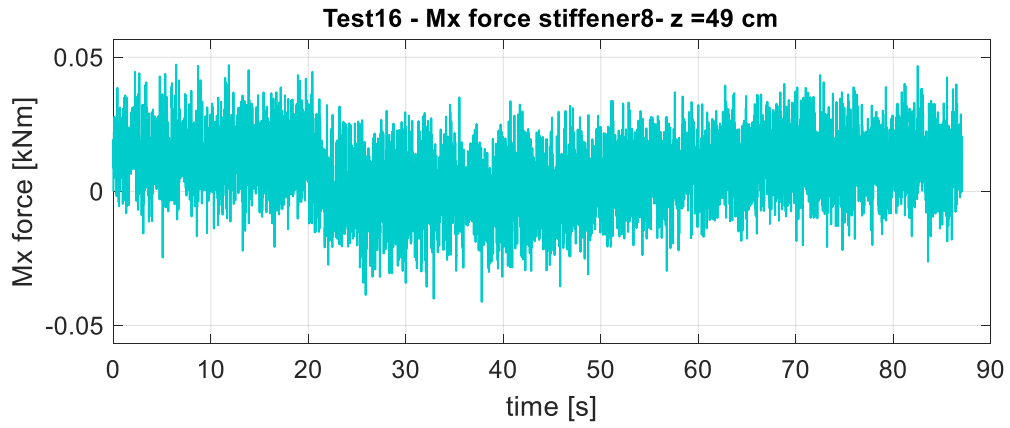
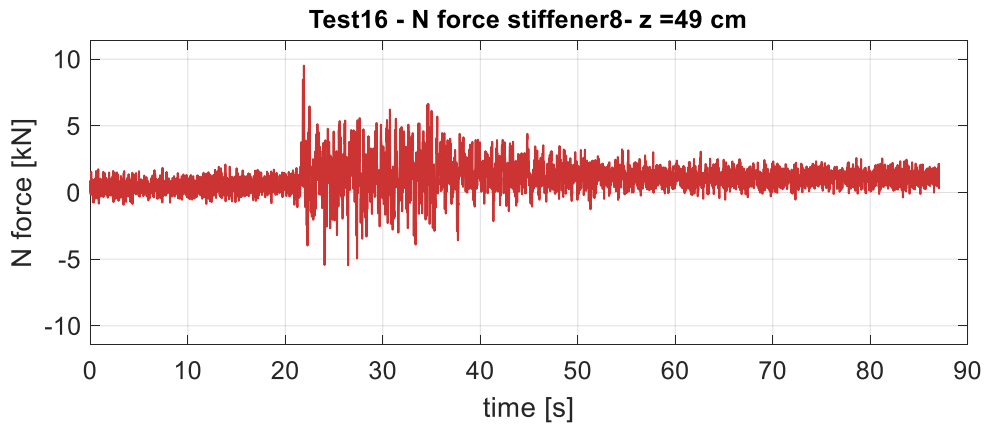
Quota Z = 42 cm: montante 8



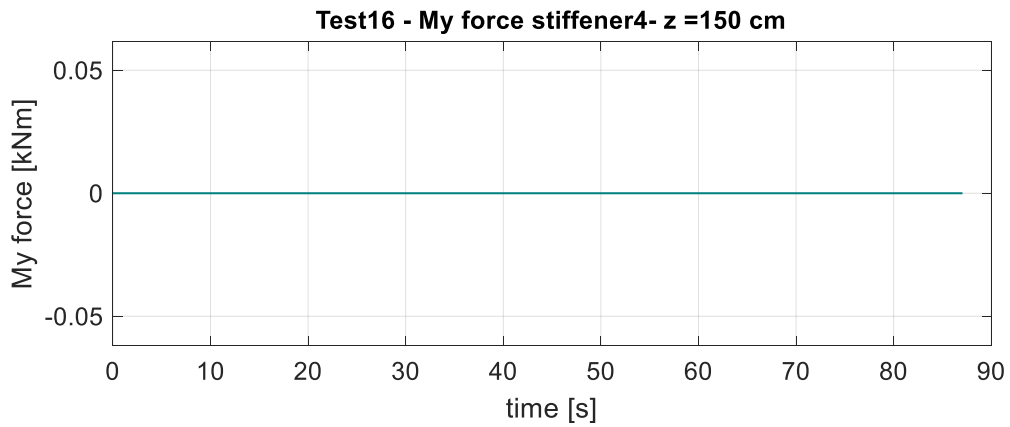
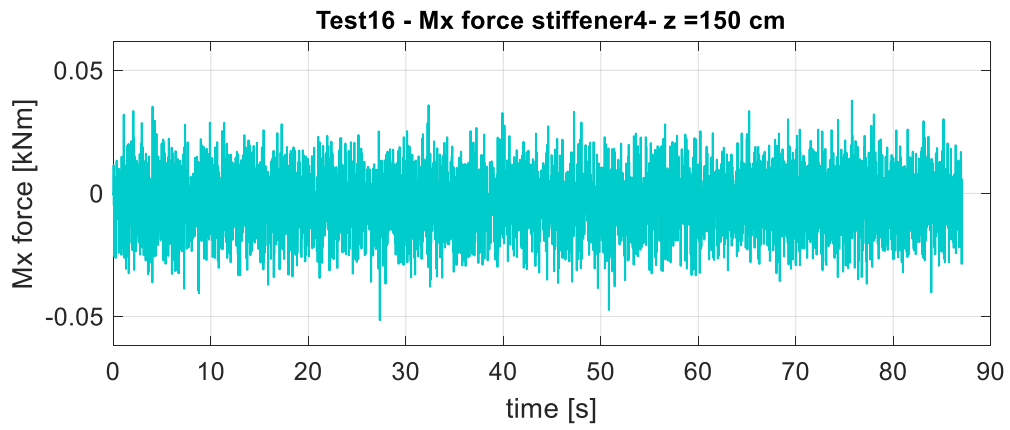
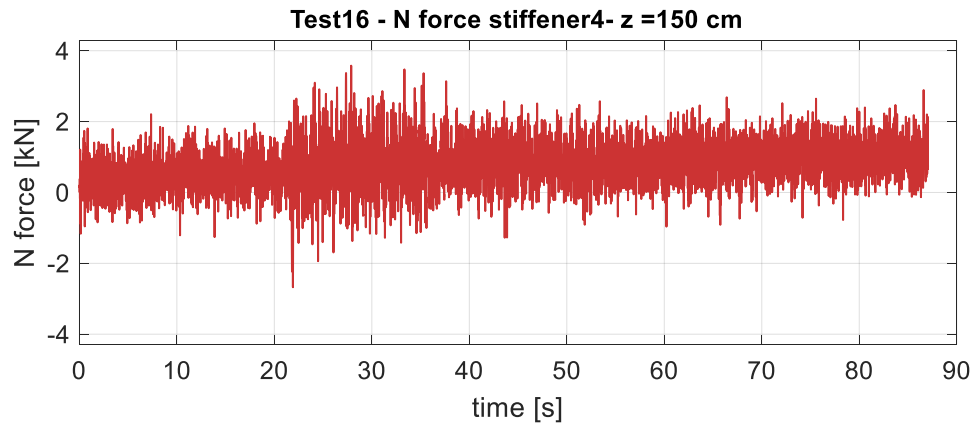
Quota Z = 49 cm: montante 7



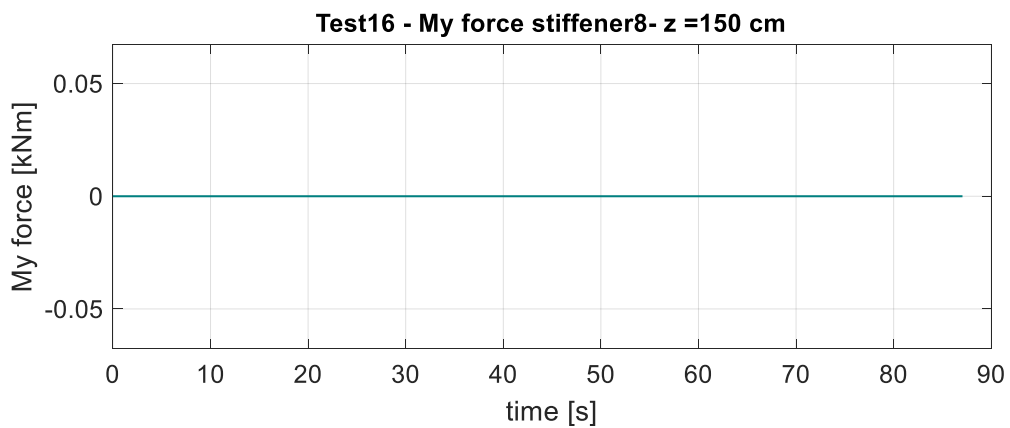
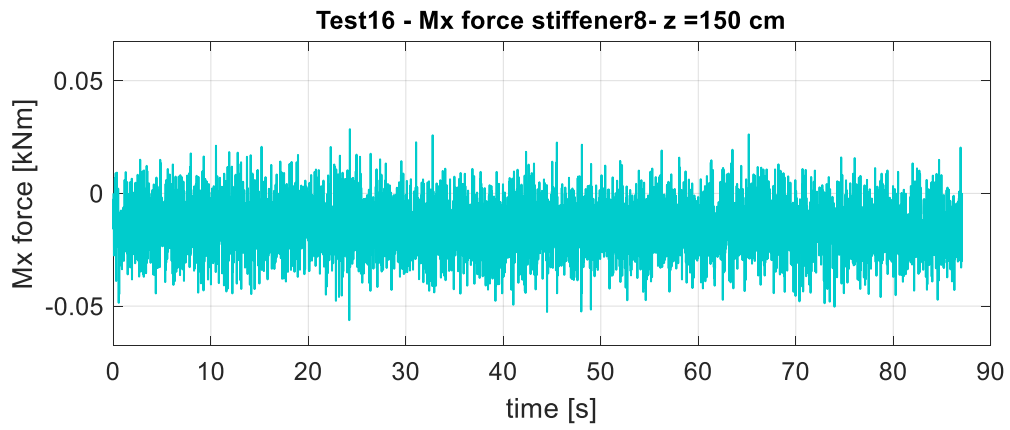
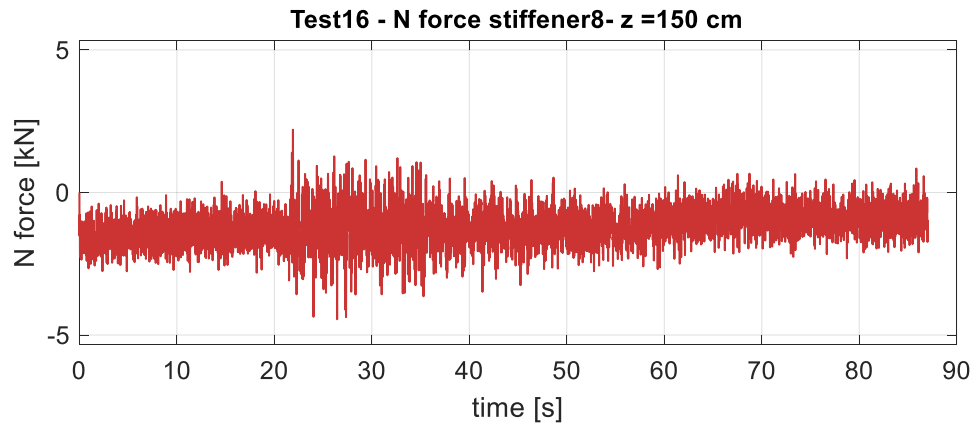
Quota Z = 49 cm: montante 8



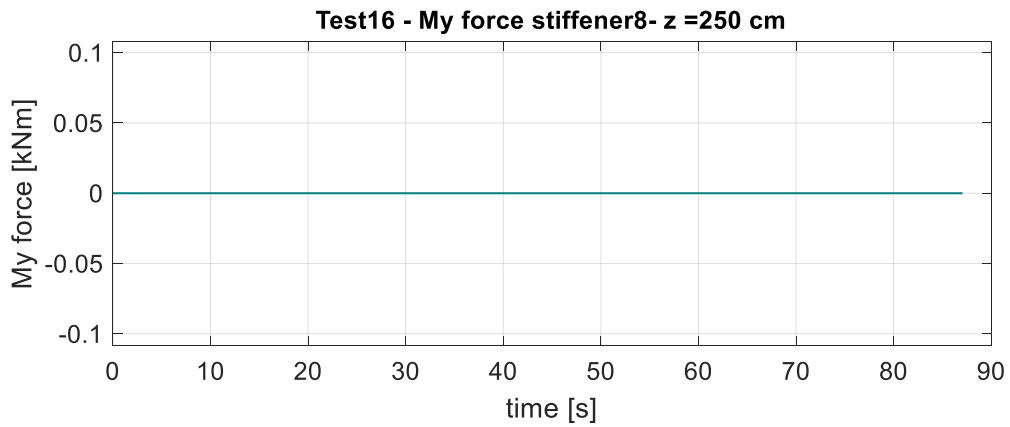
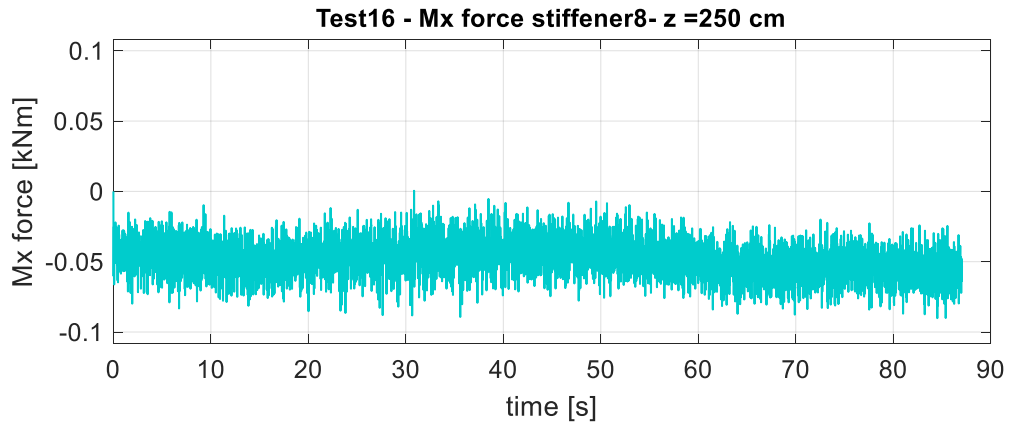
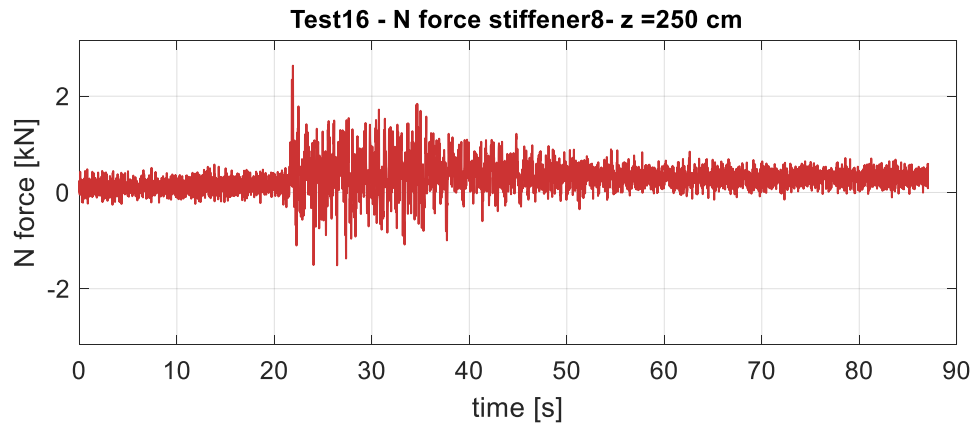
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

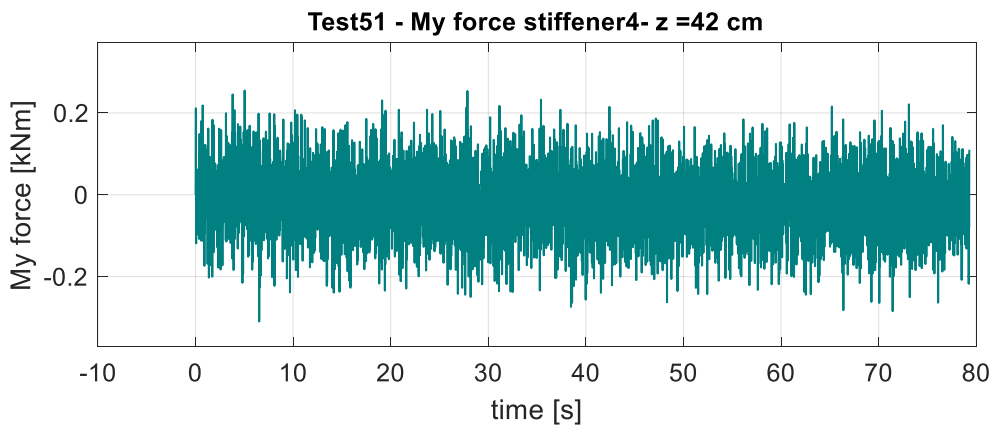
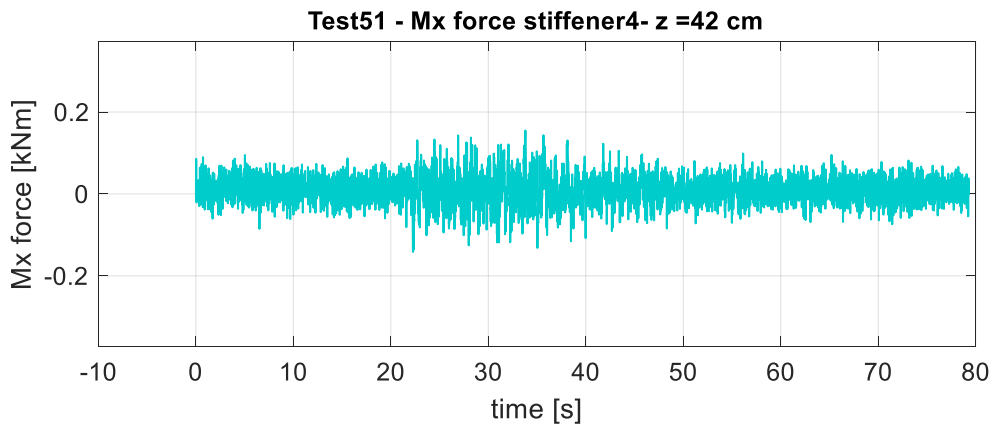
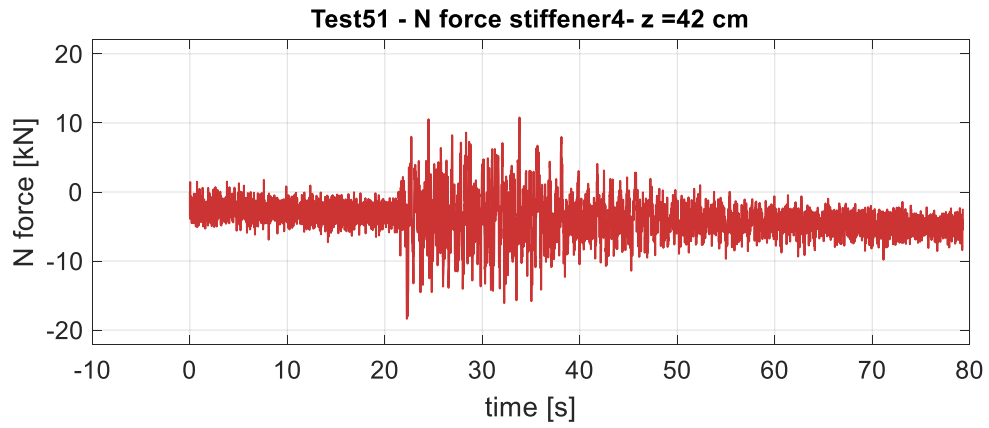


Quota Z = 250 cm: montante 8

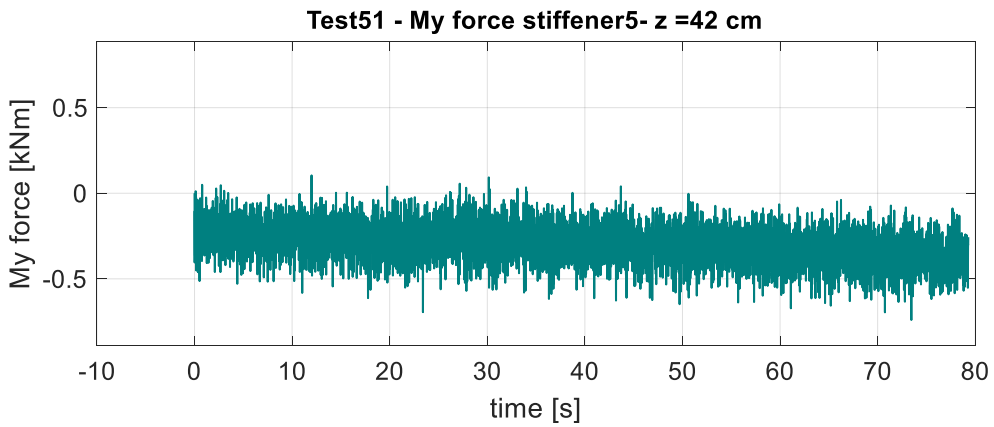
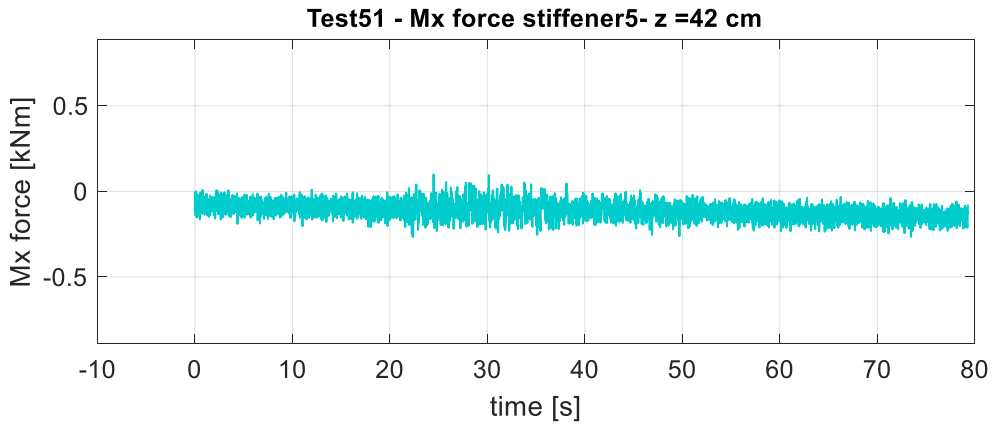
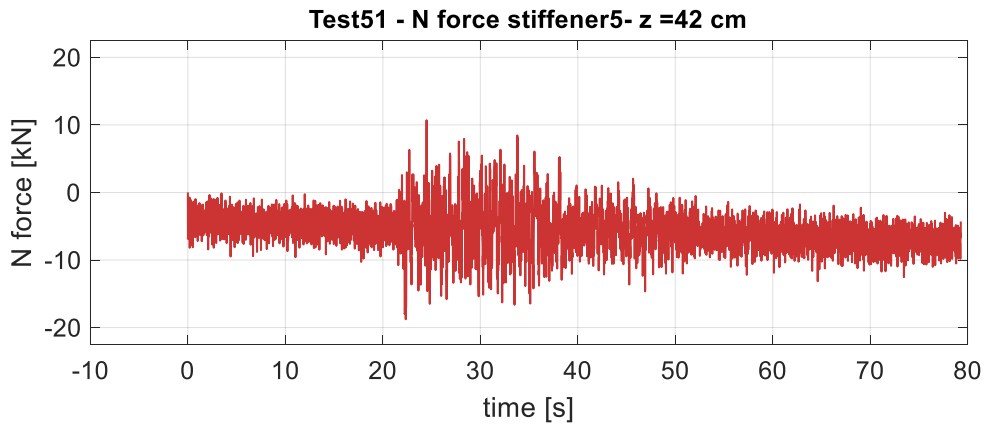


Earthquake input A1 0.3 g: Test 51

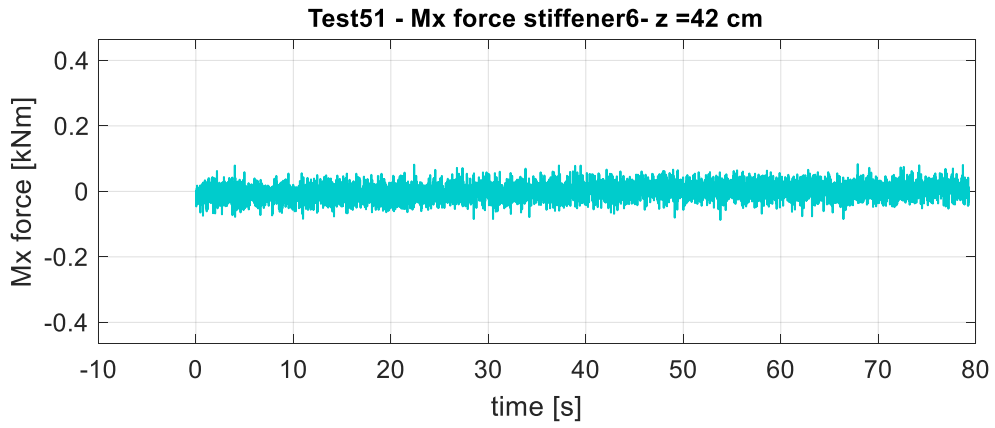
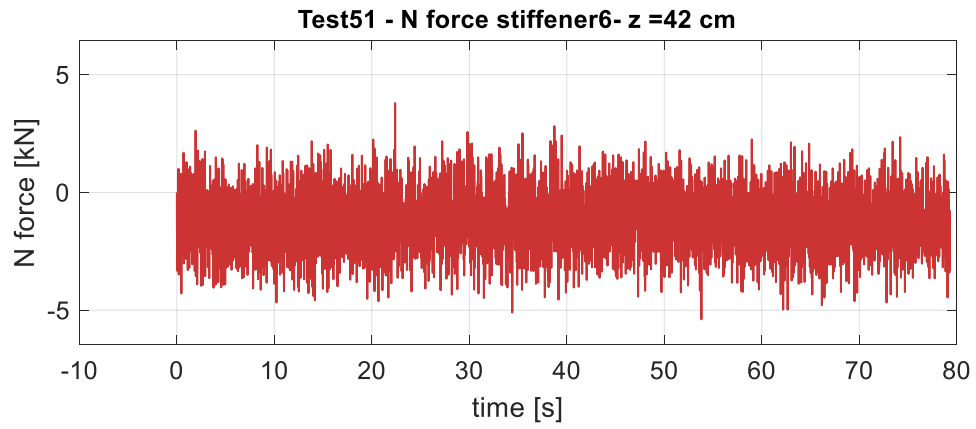
Quota Z = 42 cm: montante 4



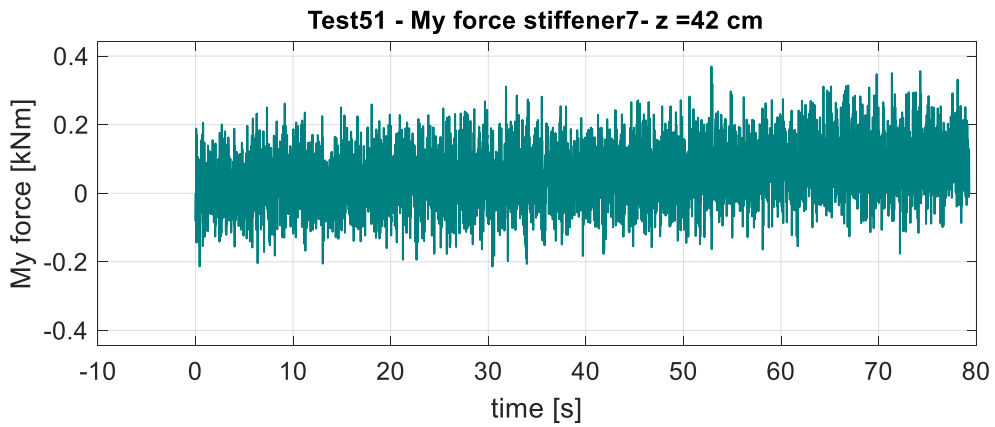
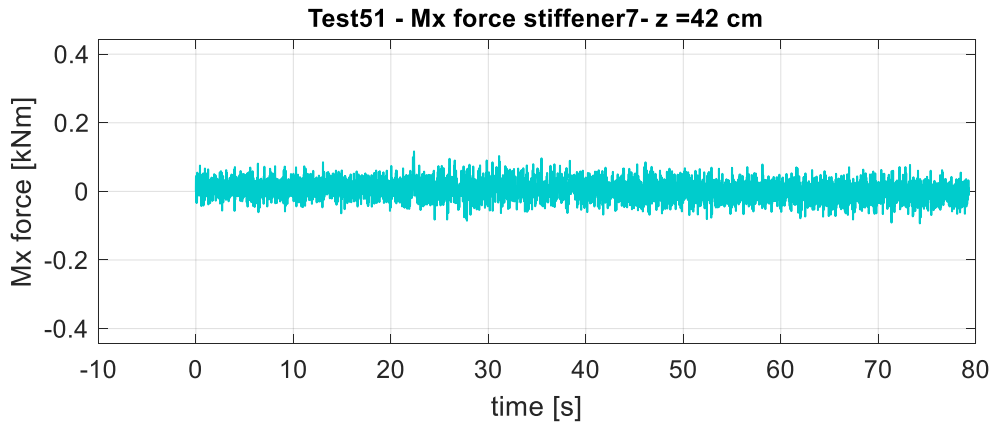
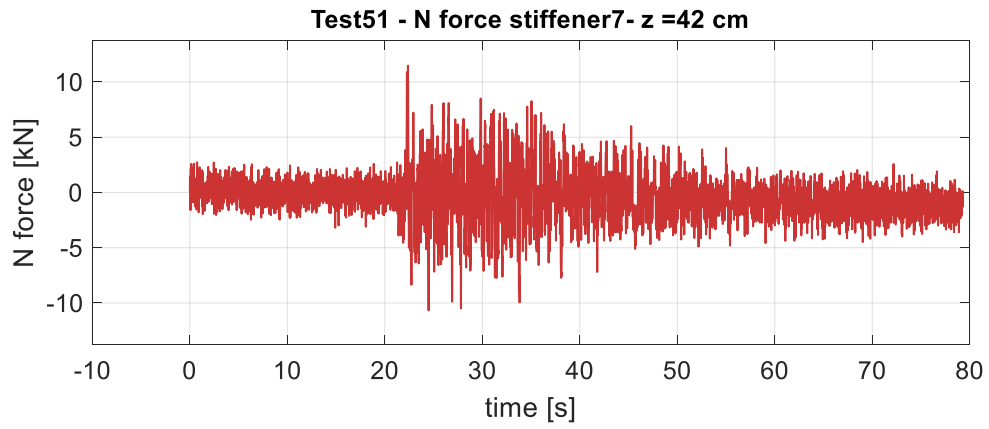
Quota Z = 42 cm: montante 5



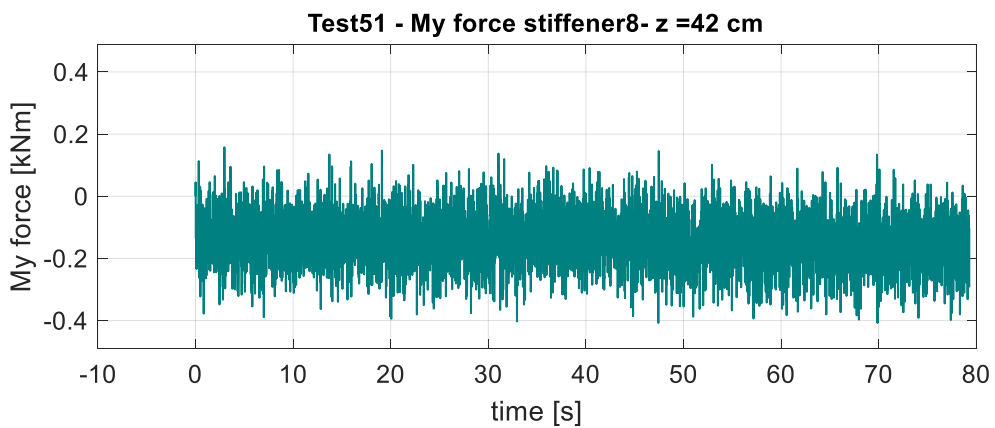
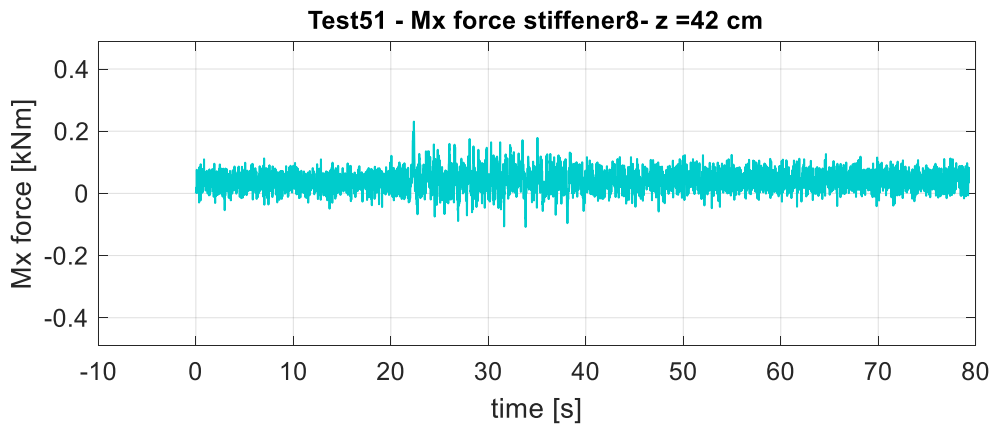
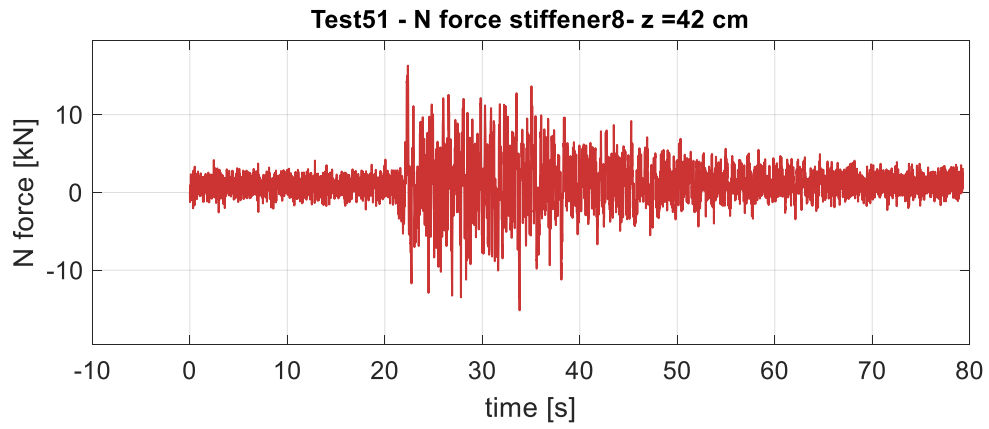
Quota Z = 42 cm: montante 6



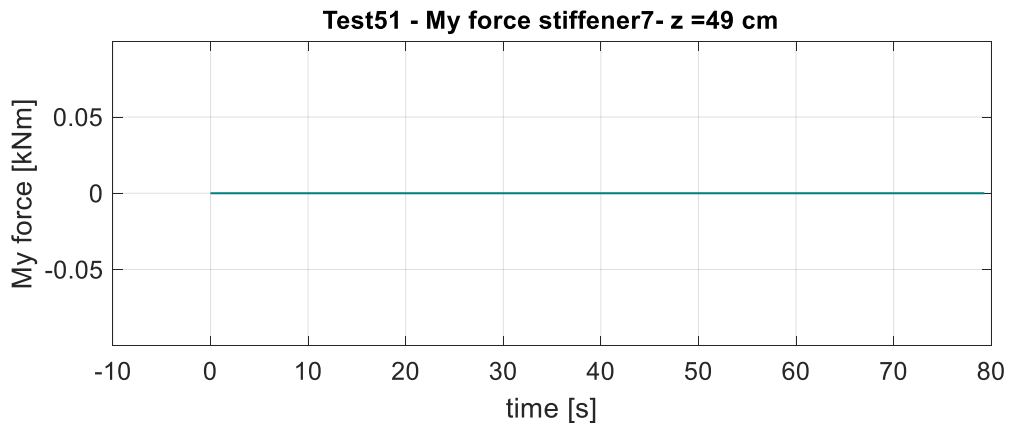
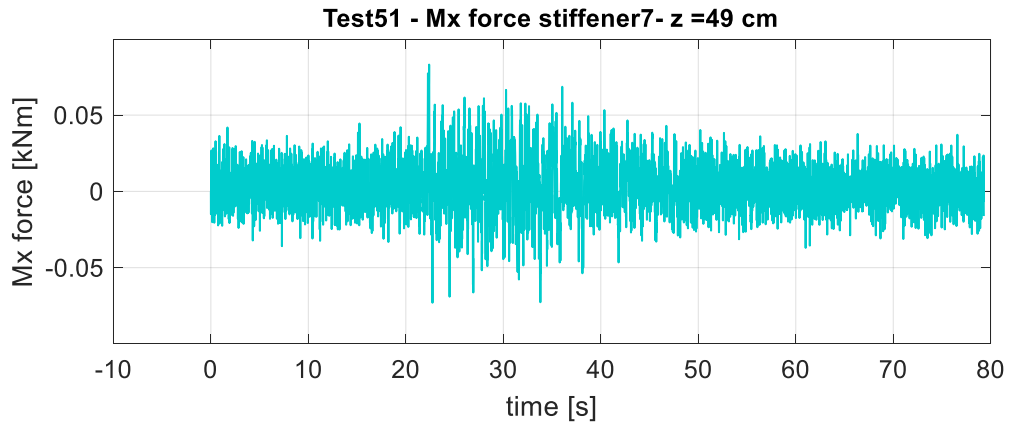
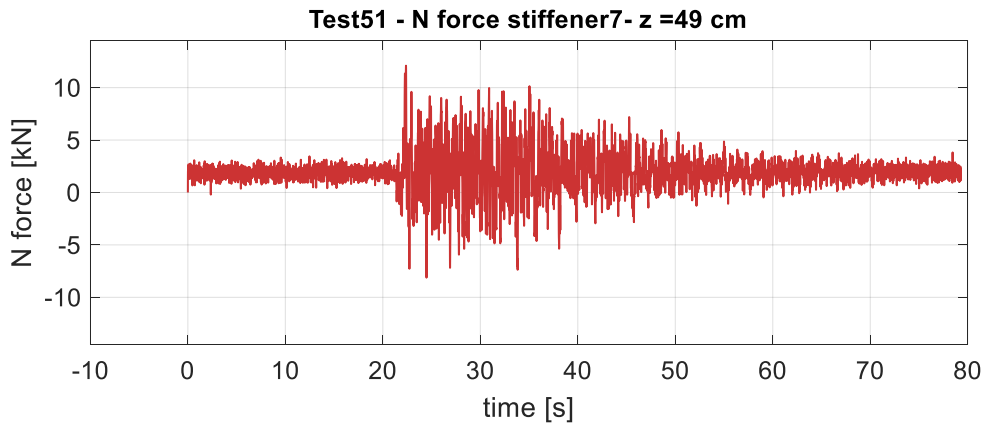
Quota Z = 42 cm: montante 7



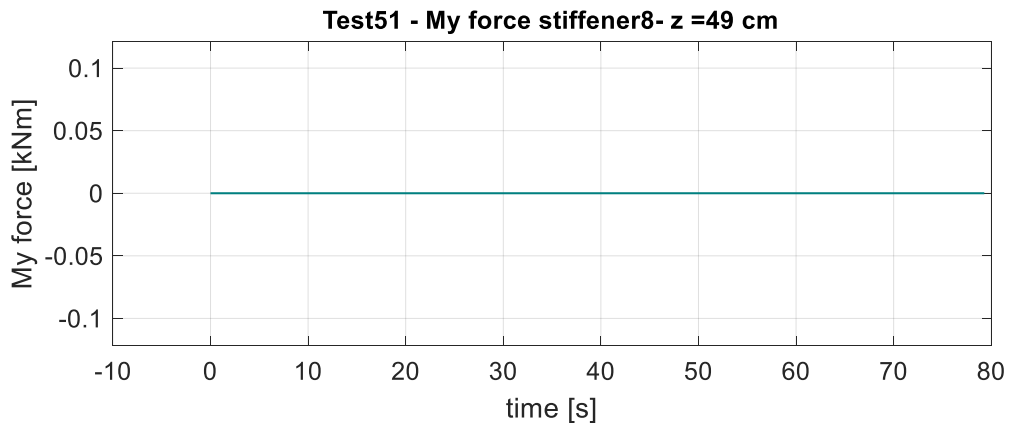
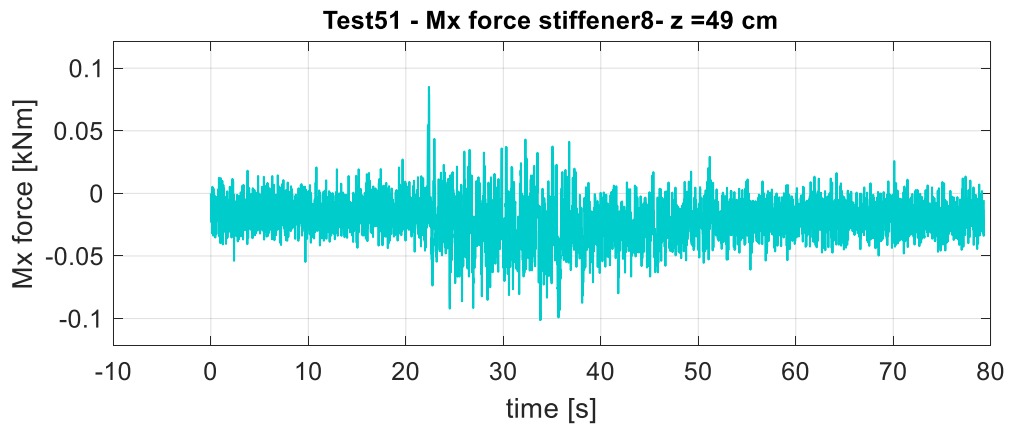
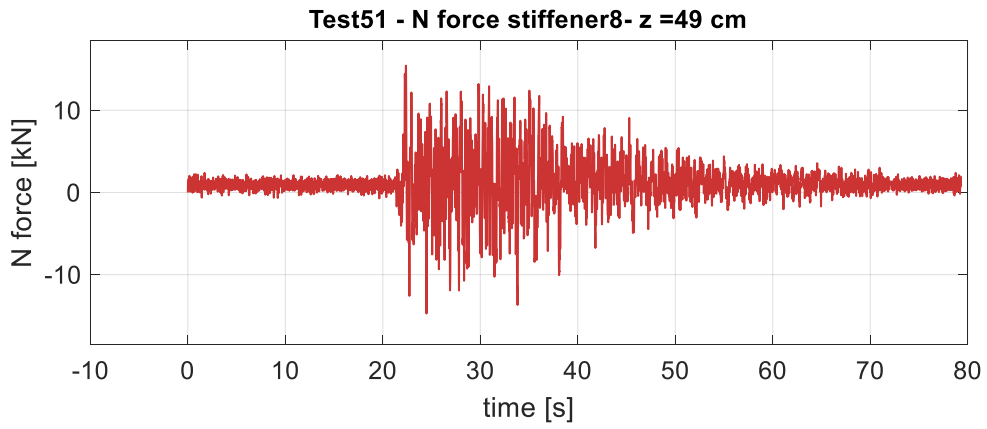
Quota Z = 42 cm: montante 8



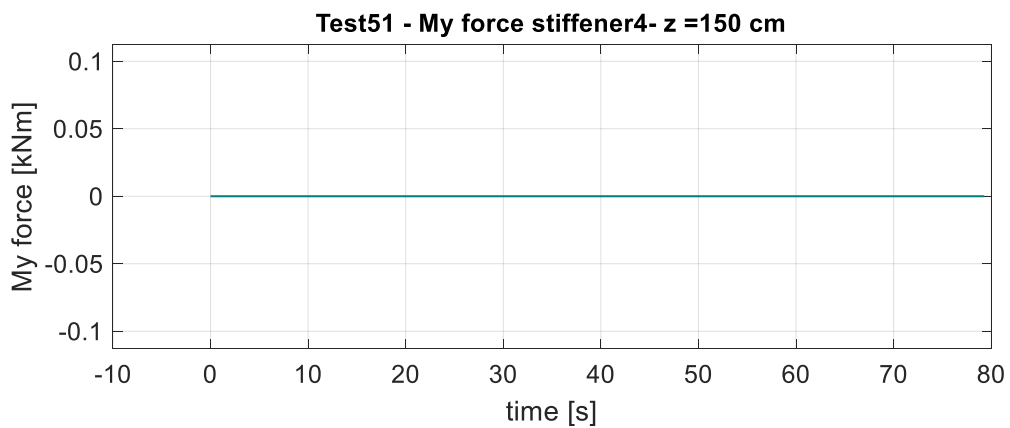
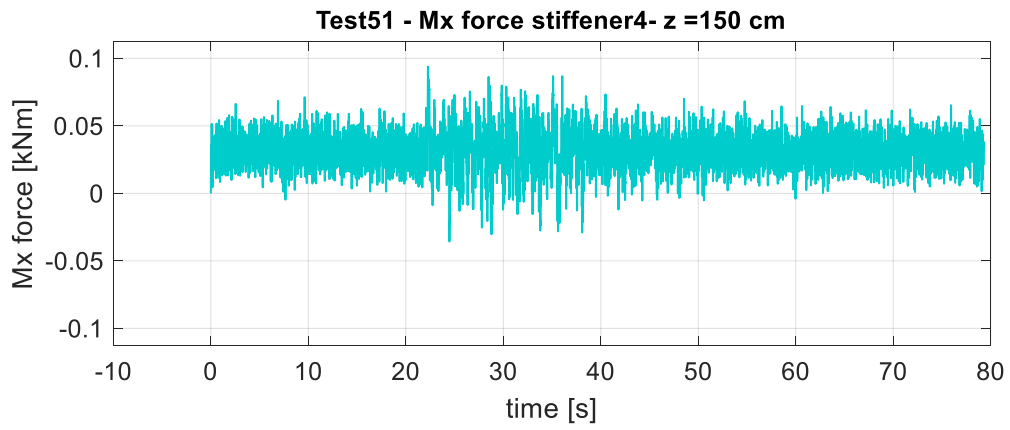
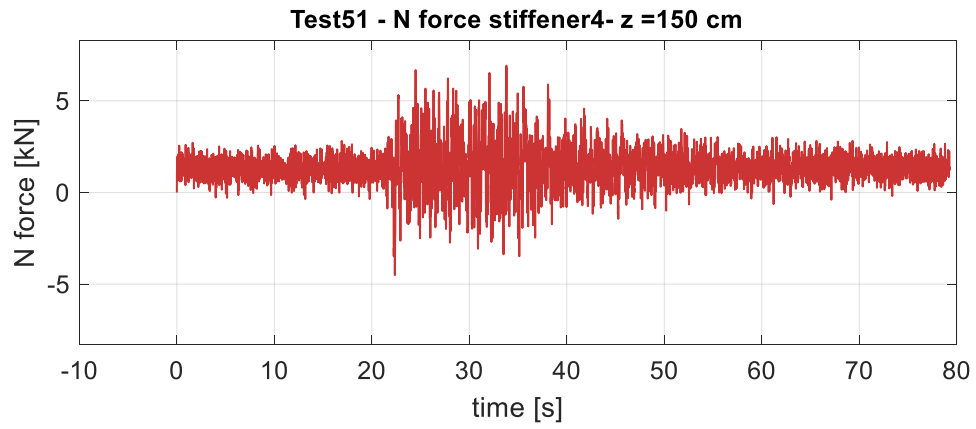
Quota Z = 49 cm: montante 7



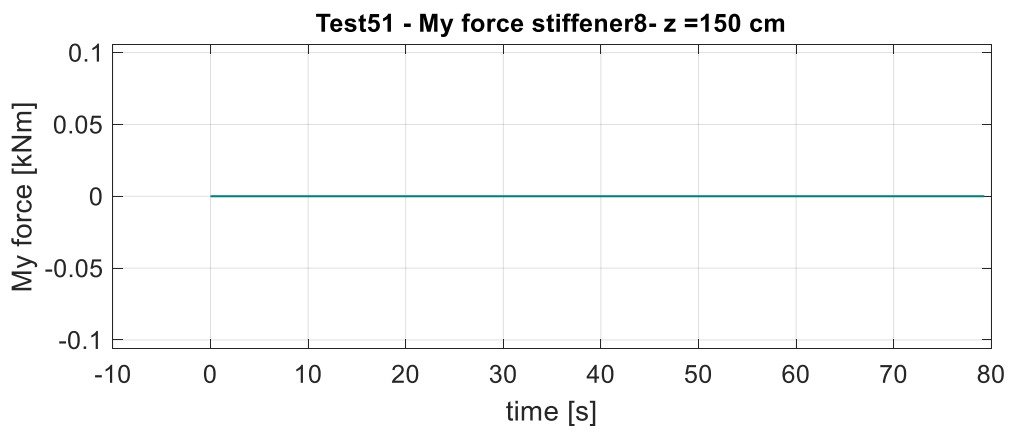
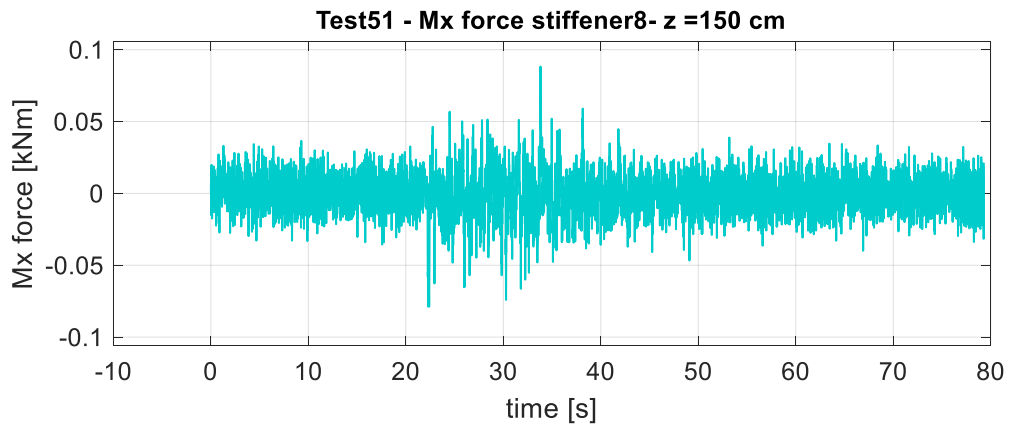
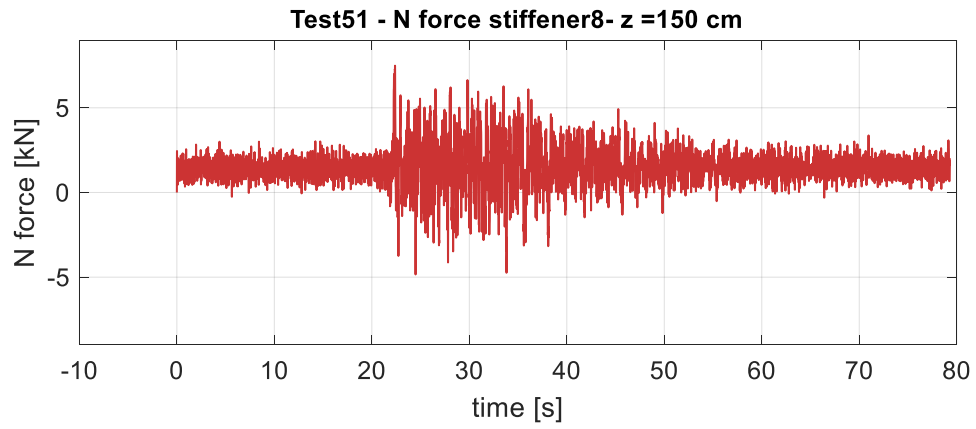
Quota Z = 49 cm: montante 8



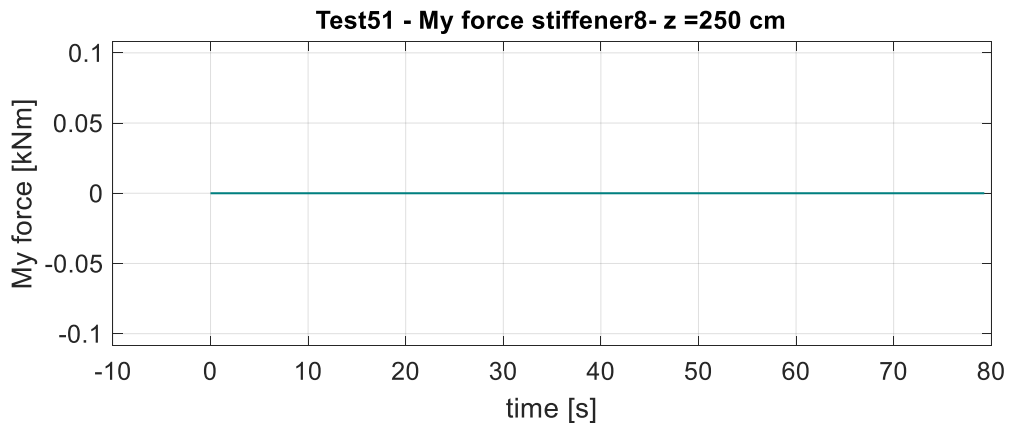
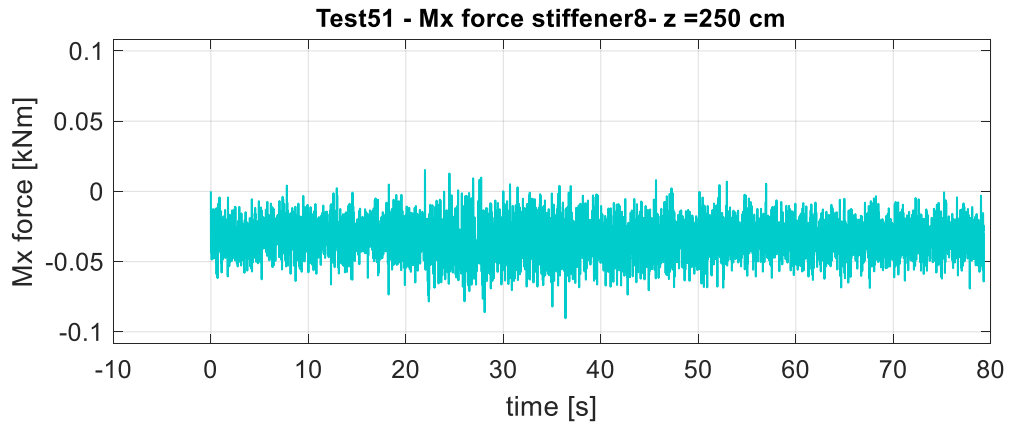
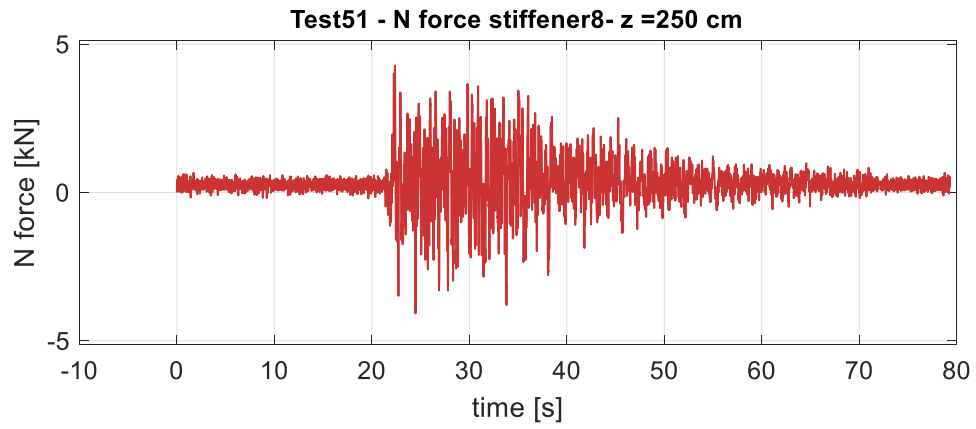
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

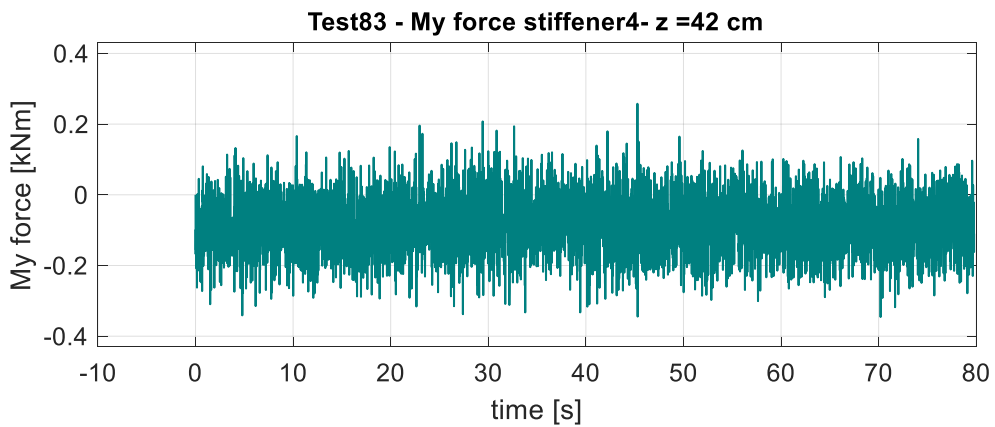
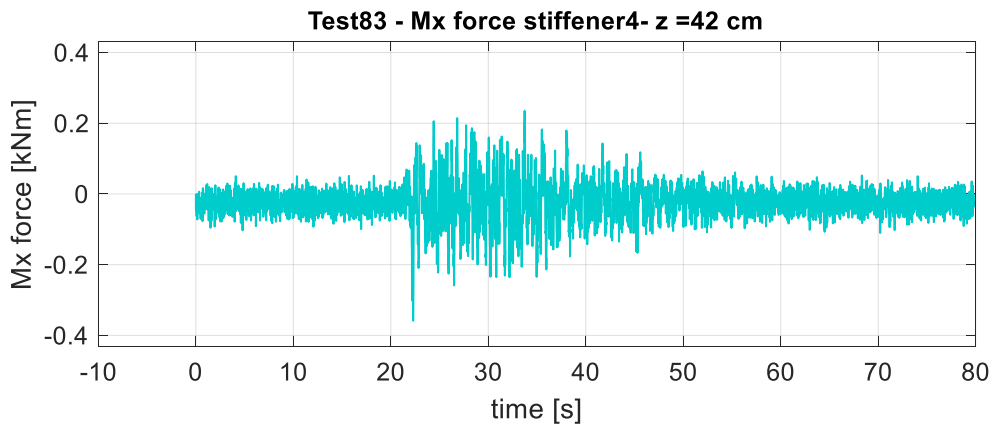
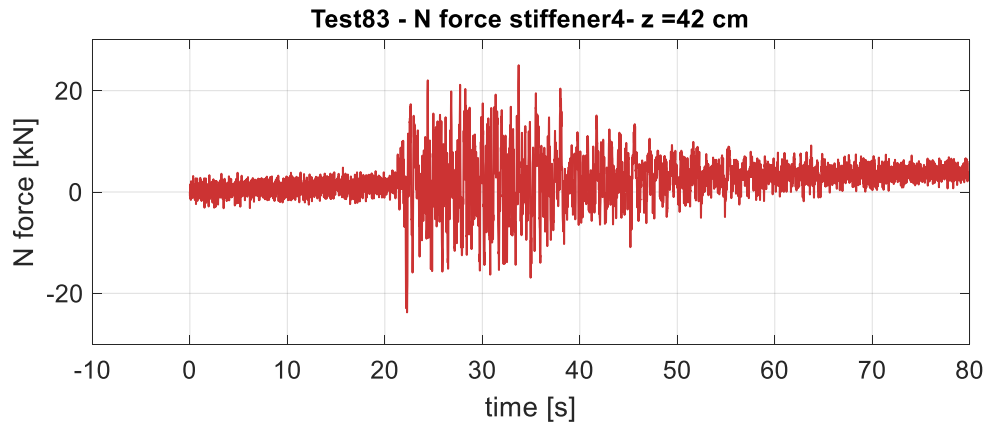


Quota Z = 250 cm: montante 8

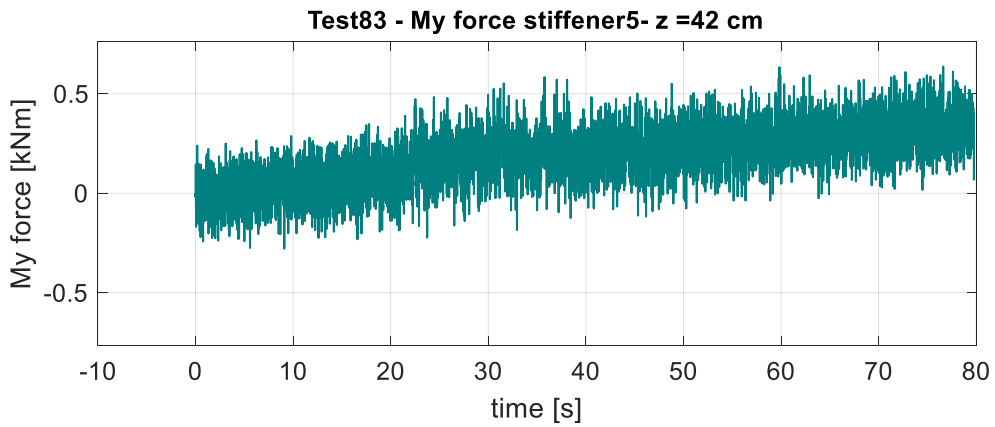
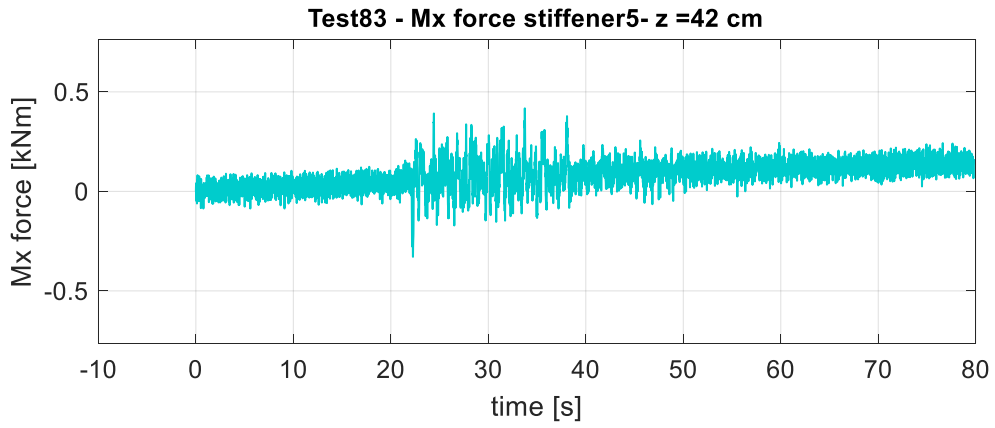
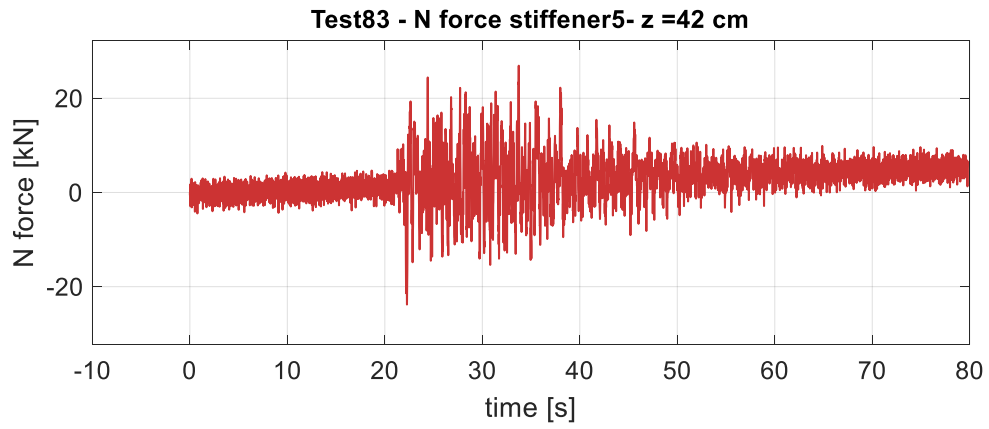


Earthquake input A1 0.5 g: Test 83

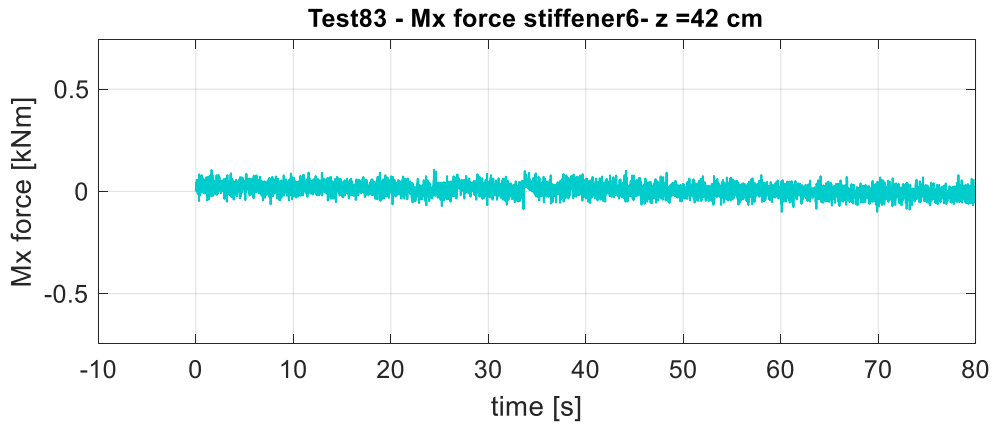
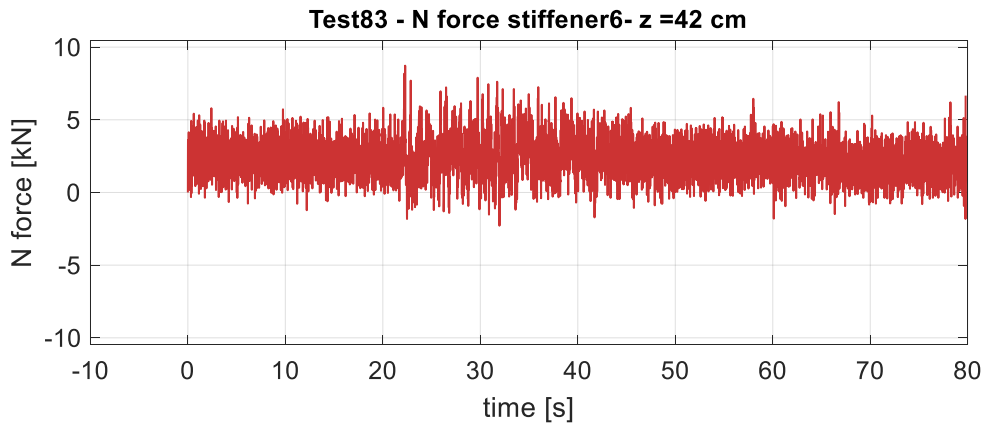
Quota Z = 42 cm: montante 4



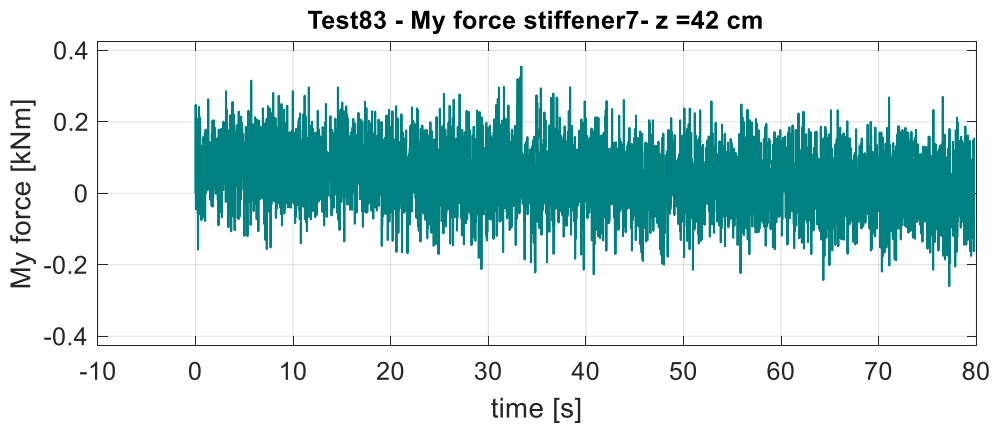
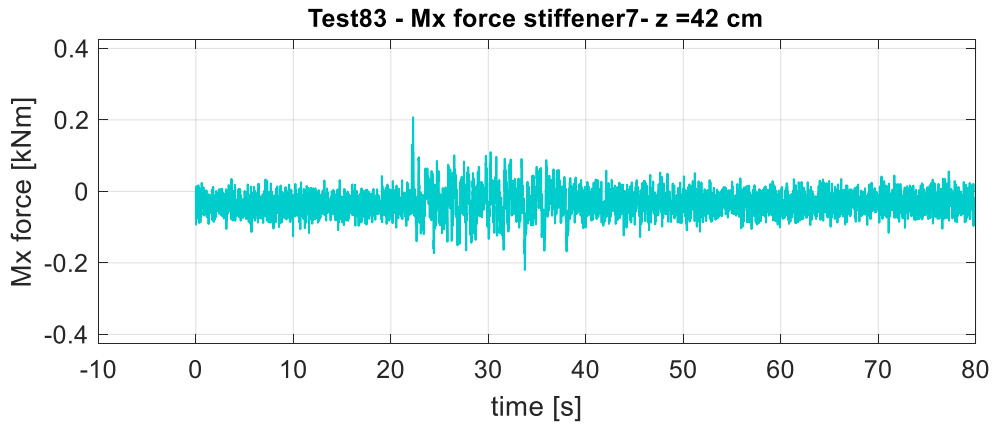
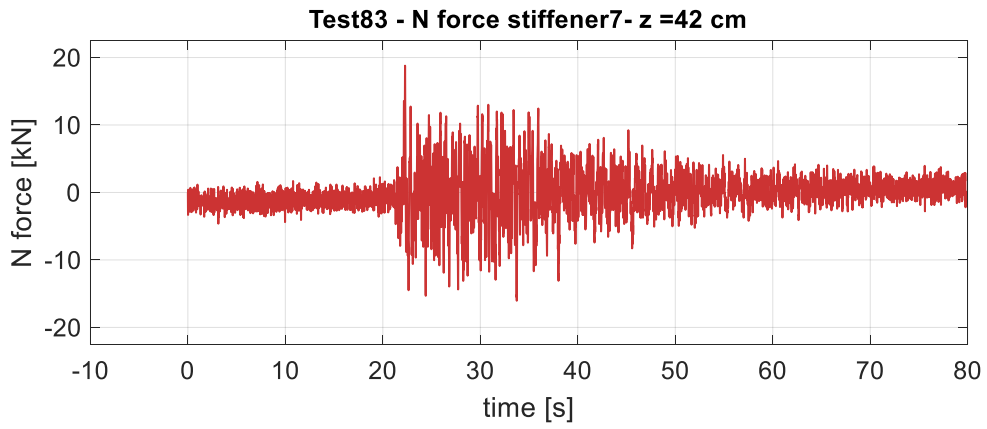
Quota Z = 42 cm: montante 5



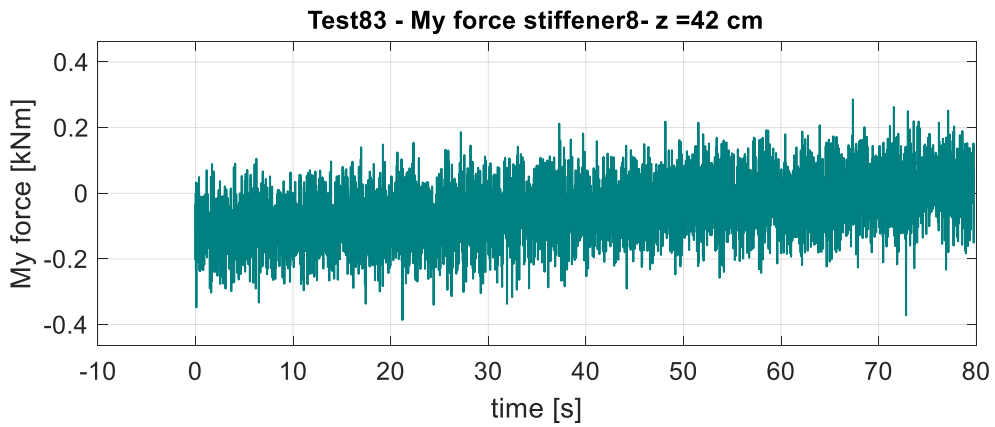
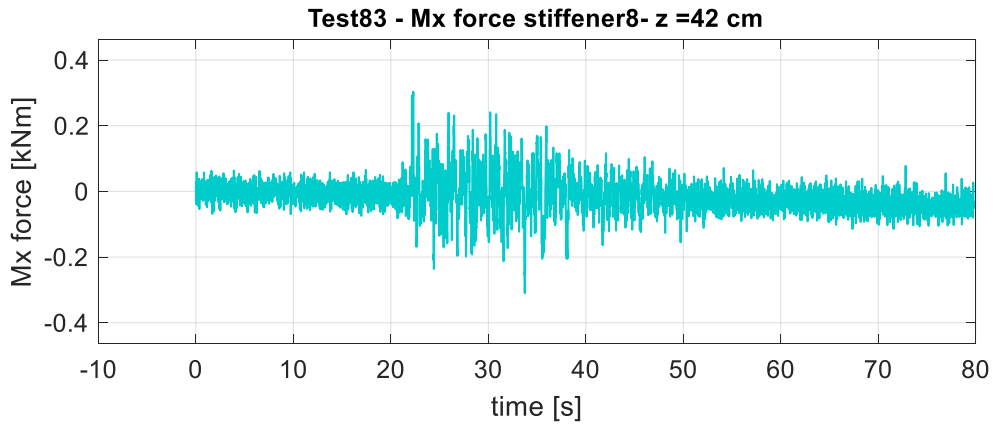
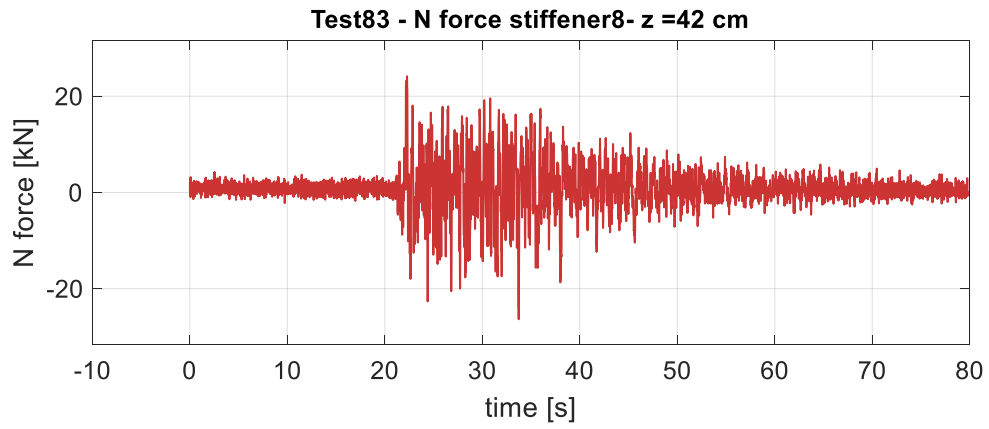
Quota Z = 42 cm: montante 6



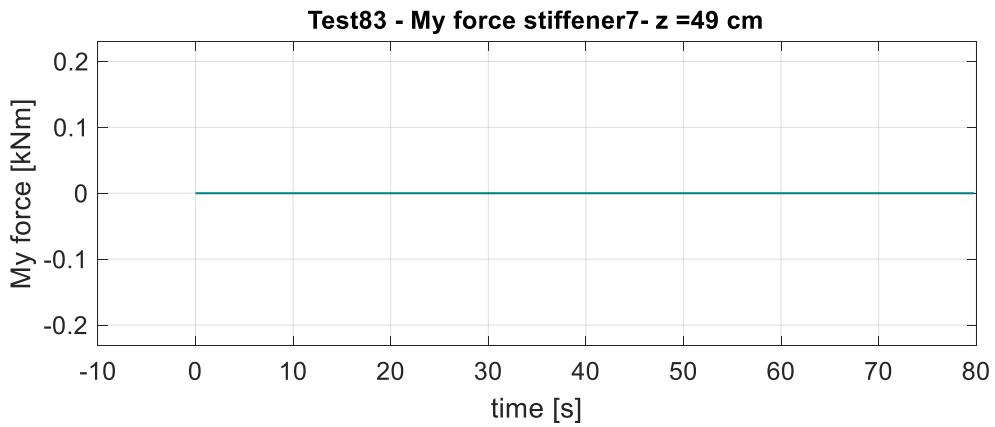
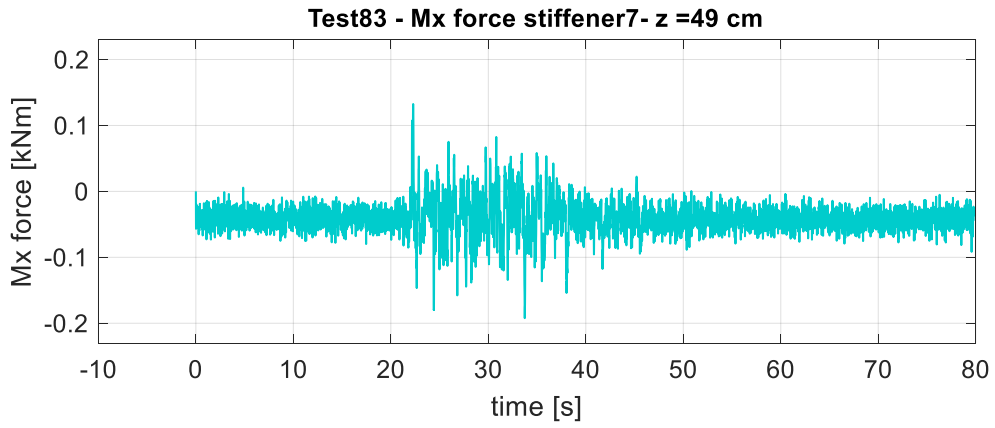
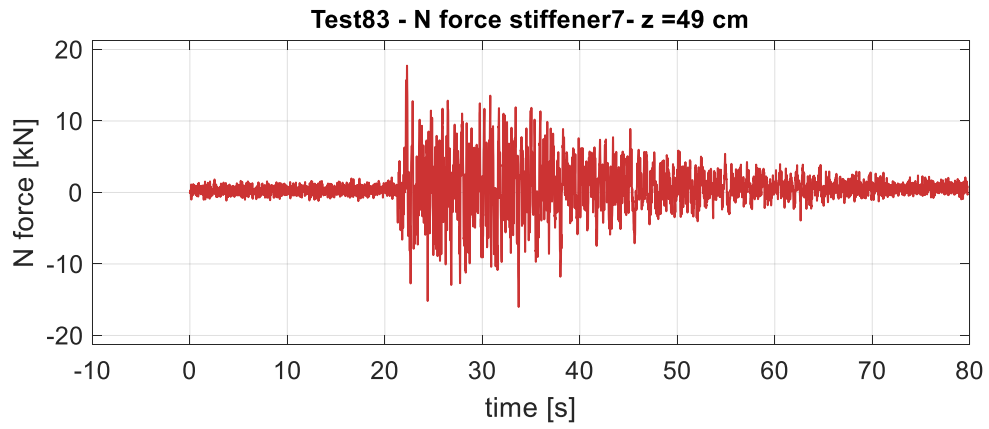
Quota Z = 42 cm: montante 7



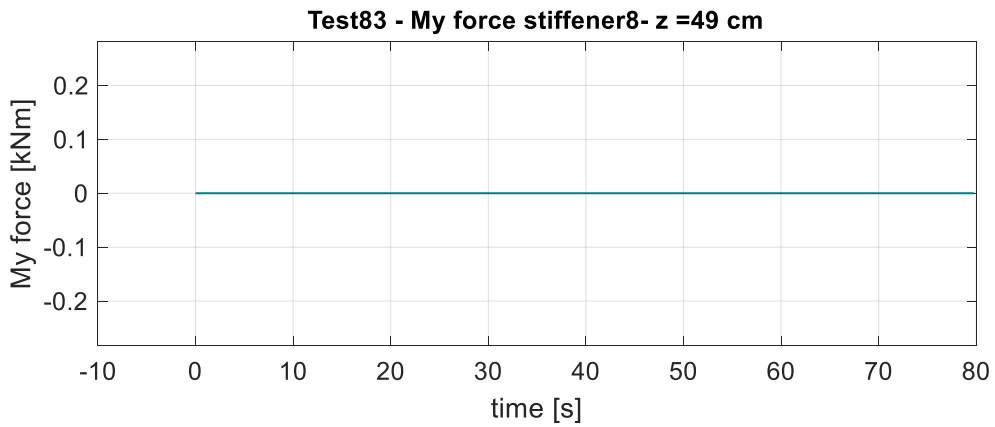
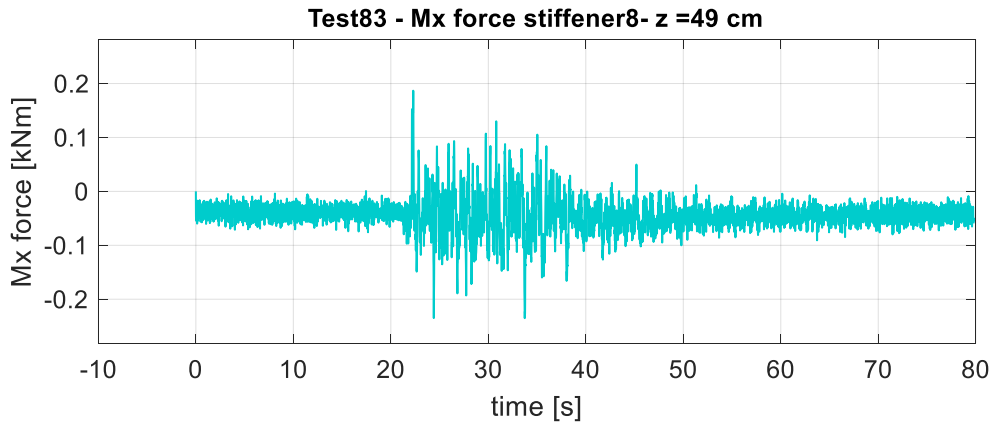
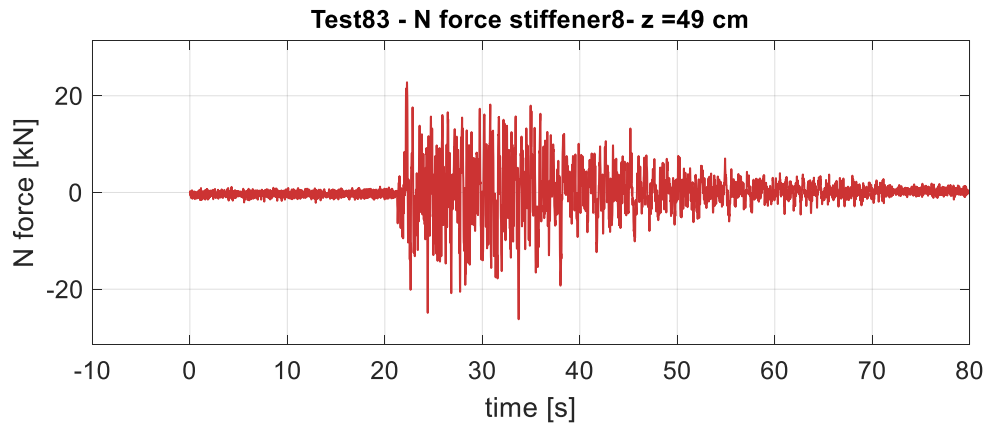
Quota Z = 42 cm: montante 8



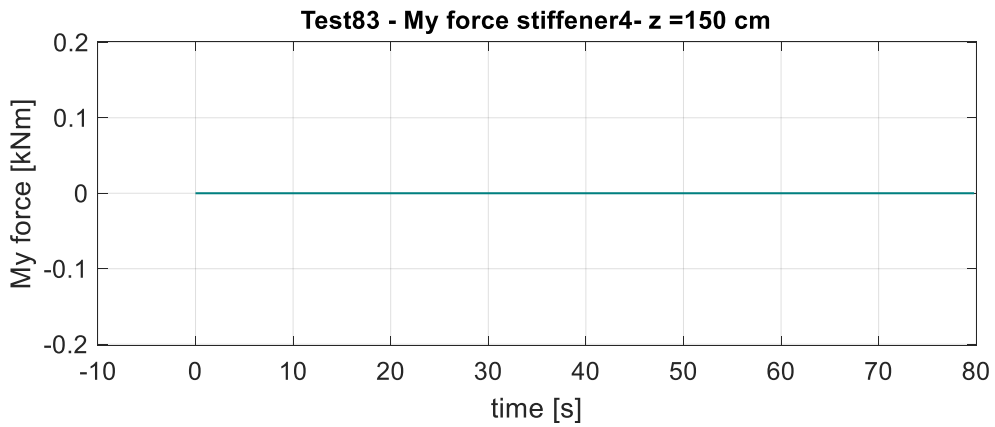
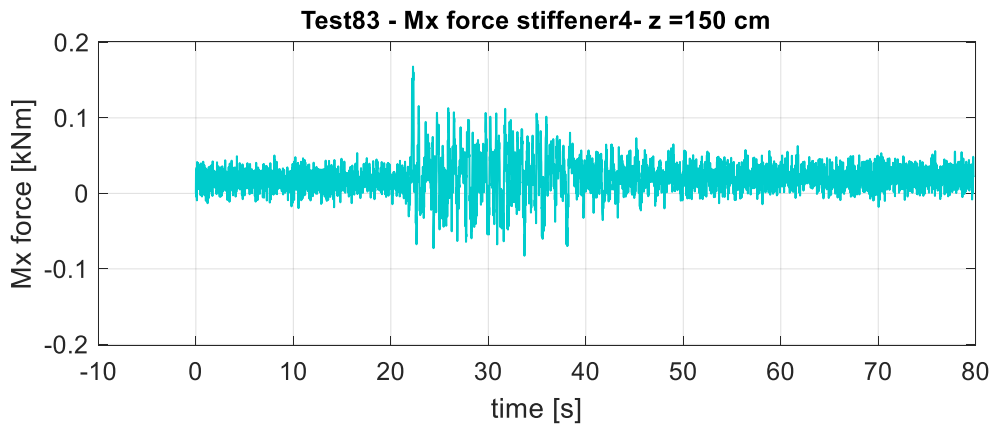
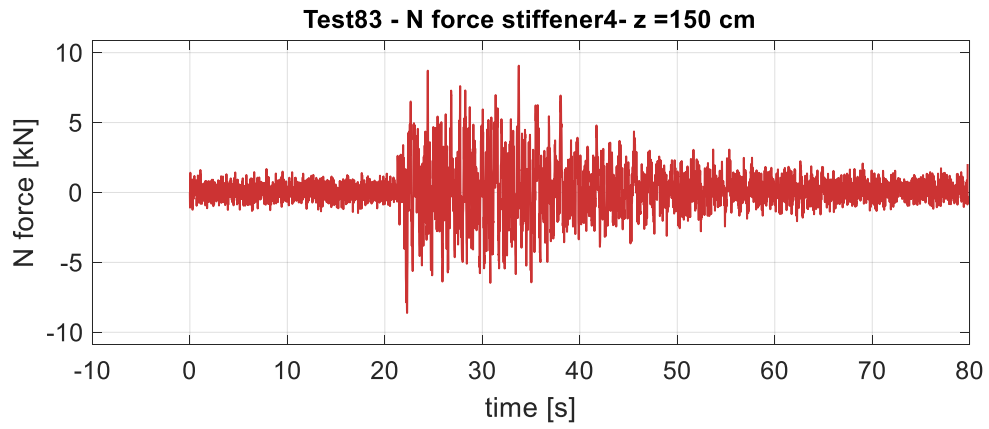
Quota Z = 49 cm: montante 7



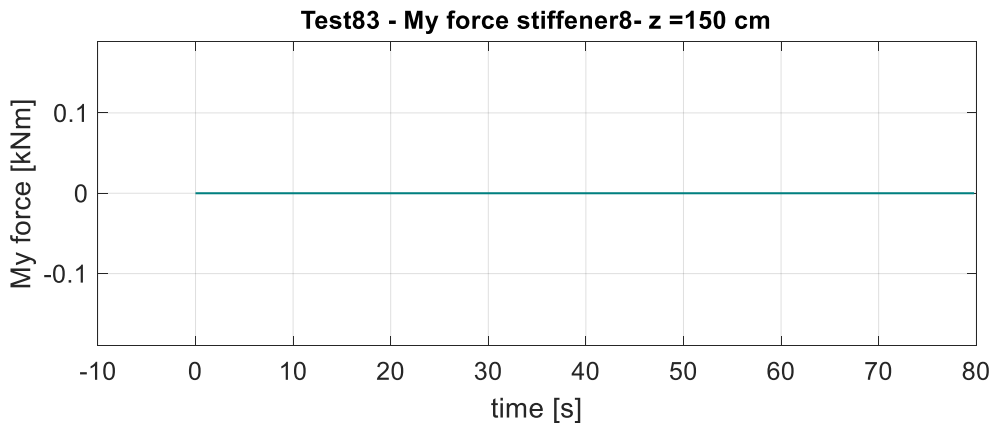
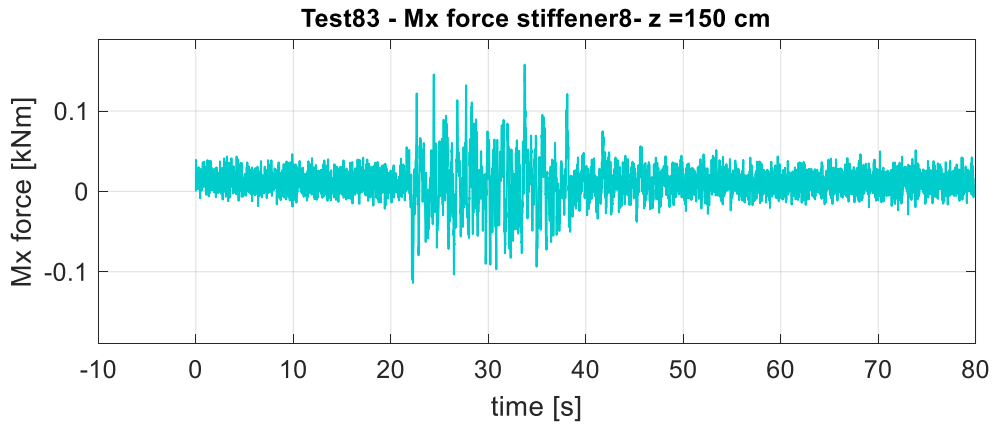
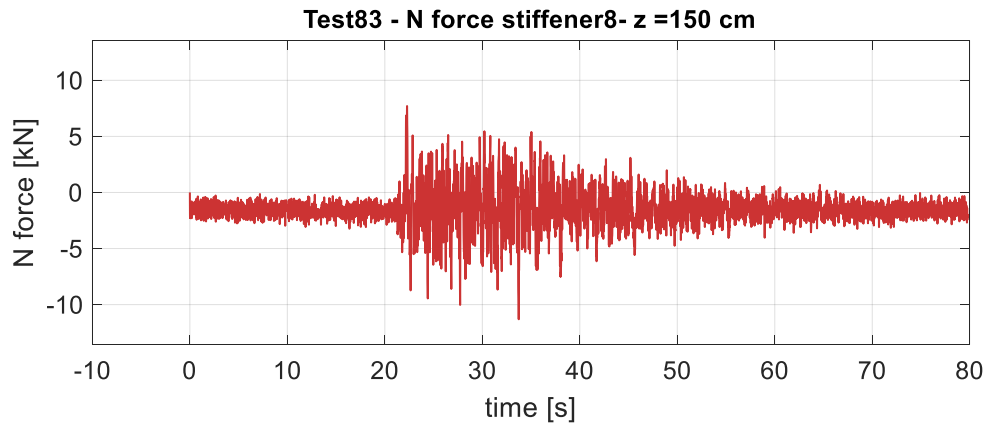
Quota Z = 49 cm: montante 8



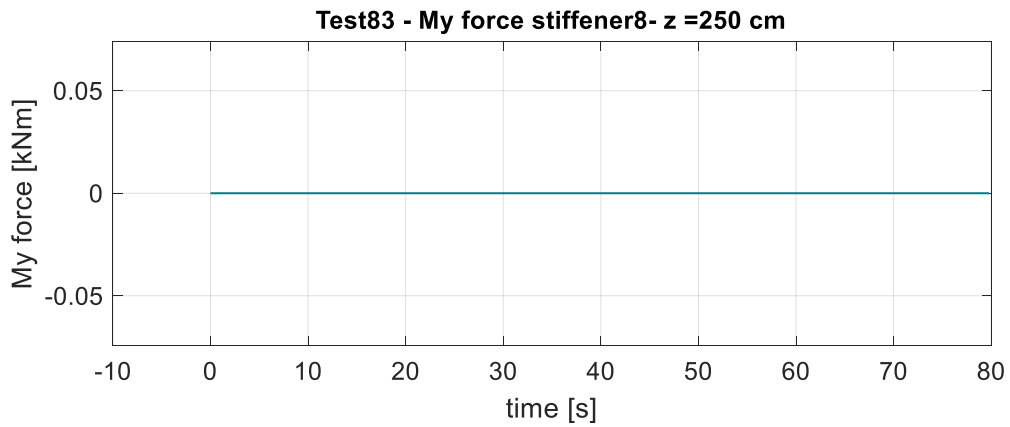
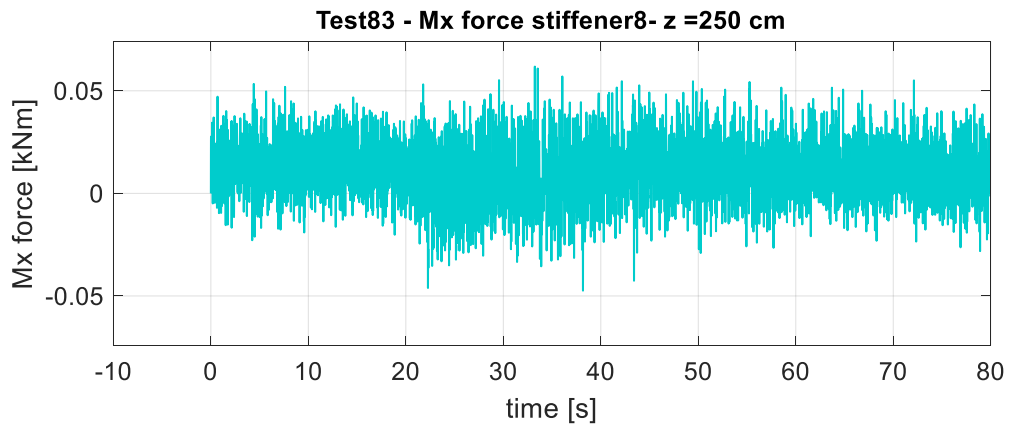
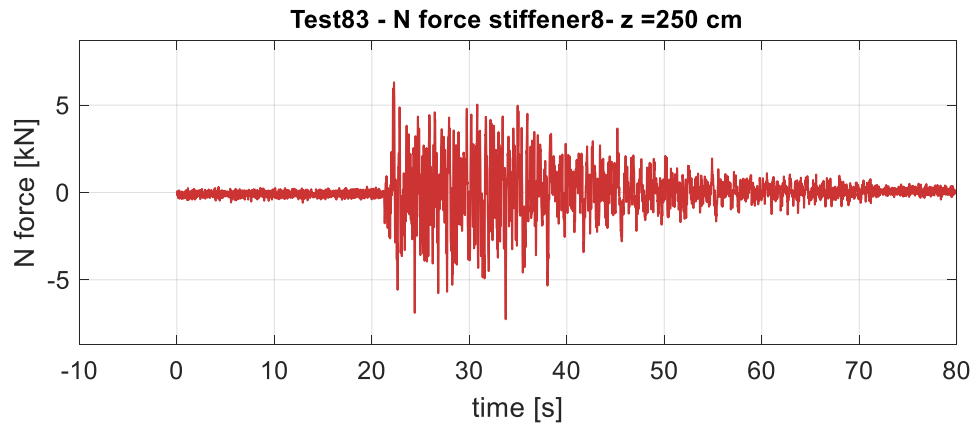
Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8

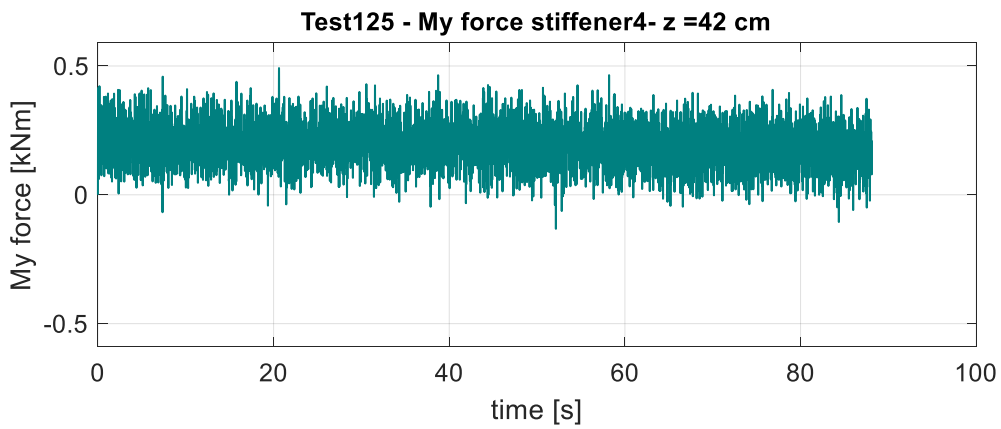
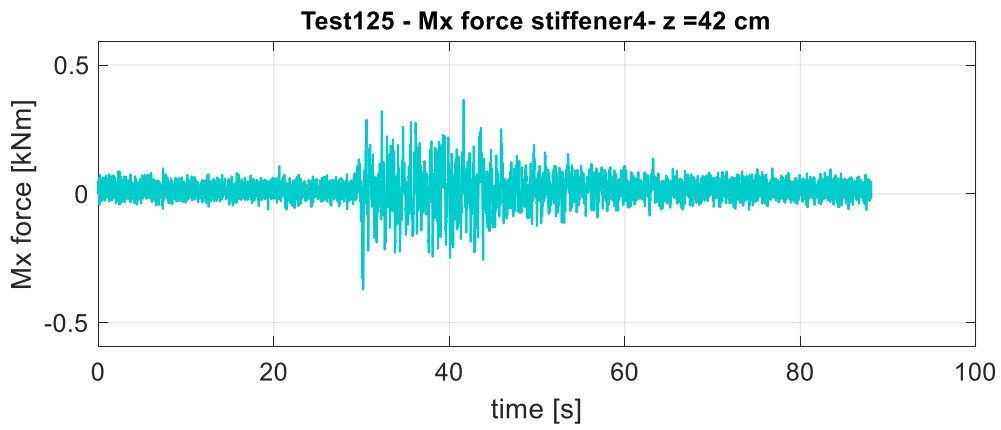
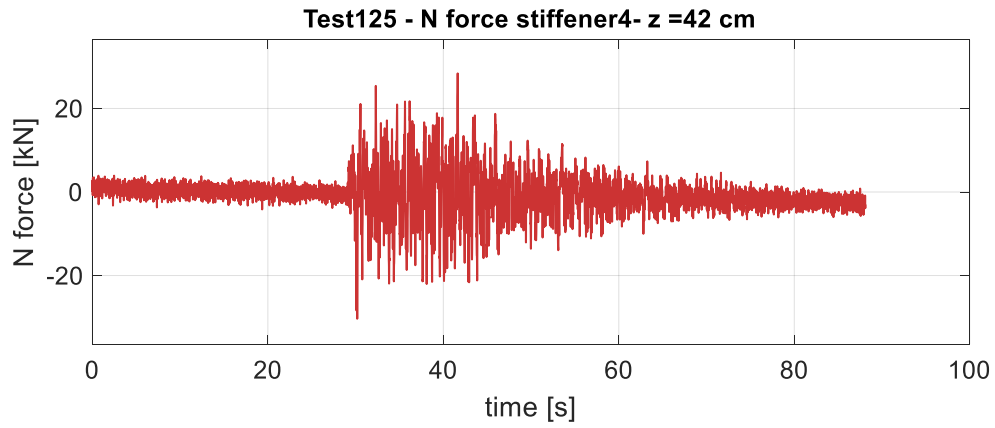


Quota Z = 250 cm: montante 8

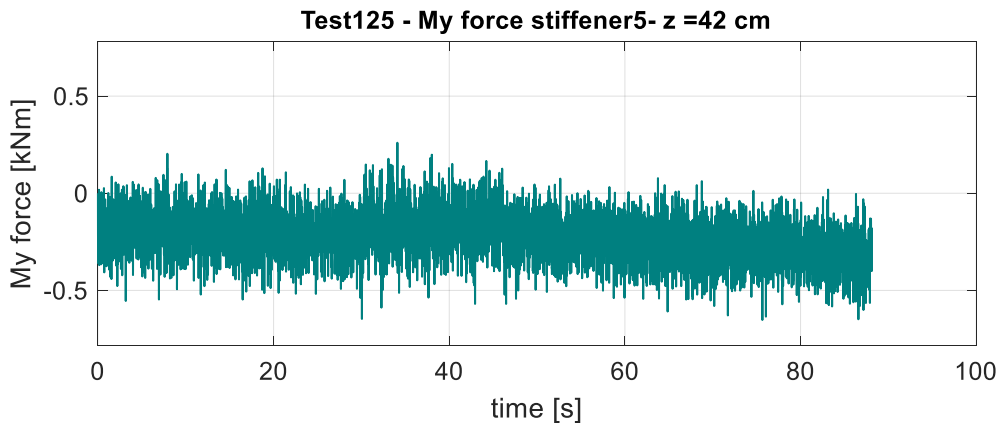
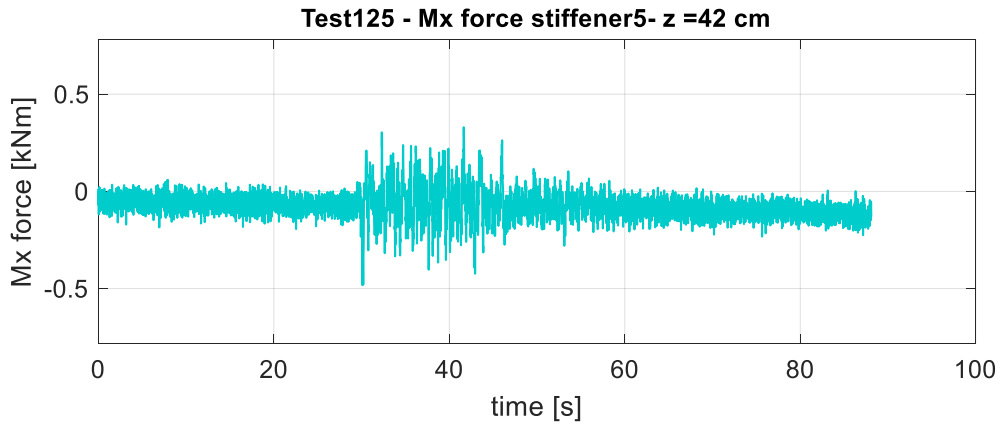
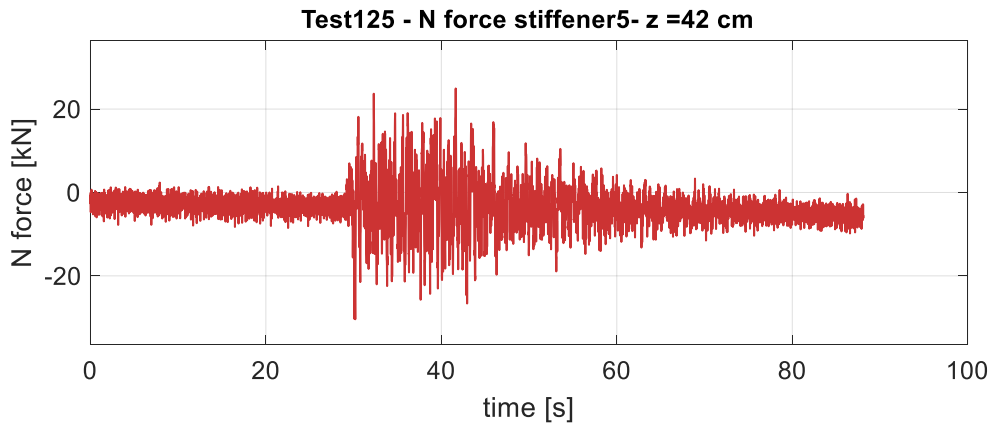


Earthquake input A1 0.6 g: Test 125

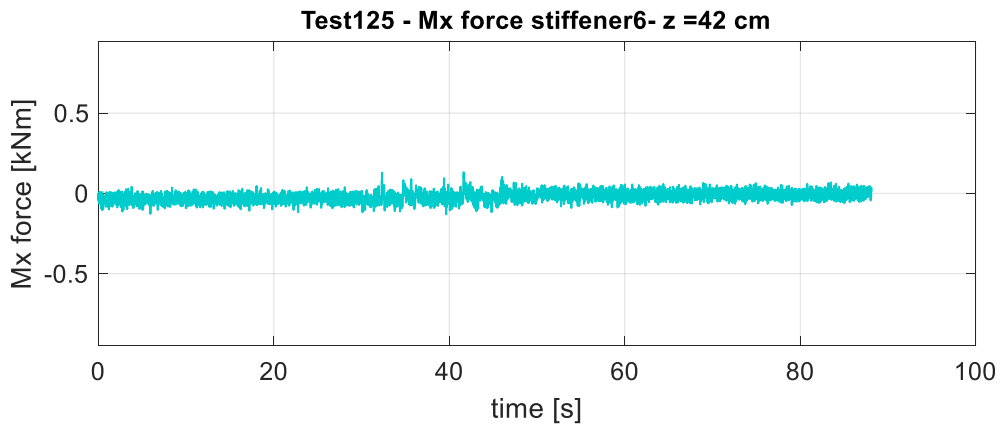
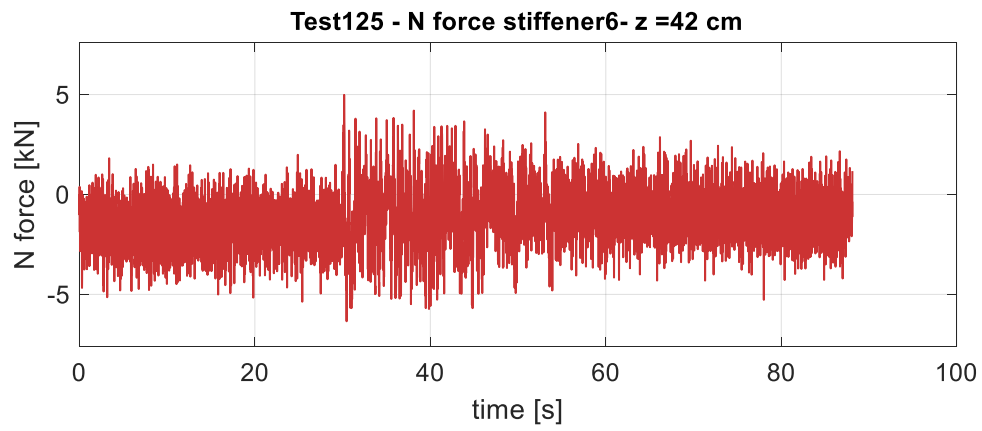
Quota Z = 42 cm: montante 4



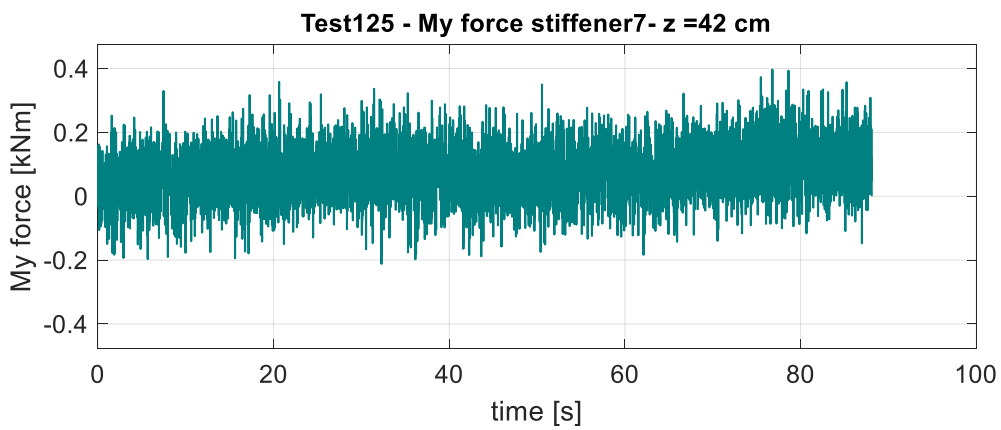
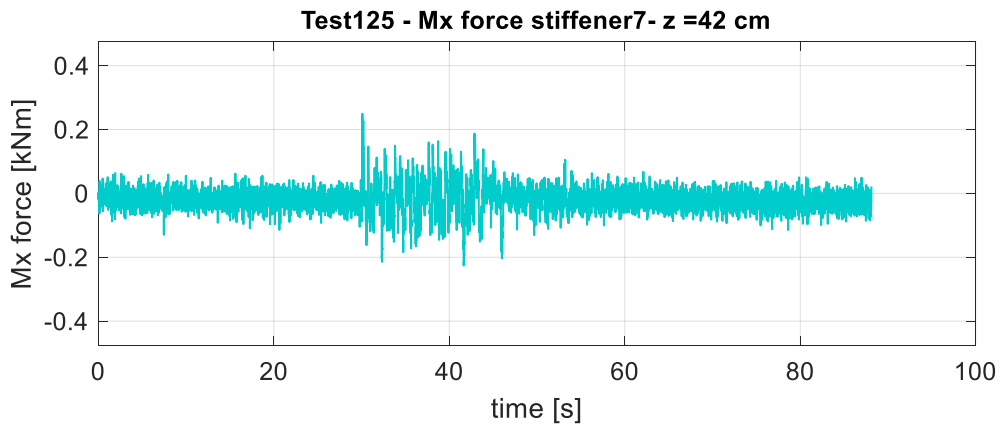
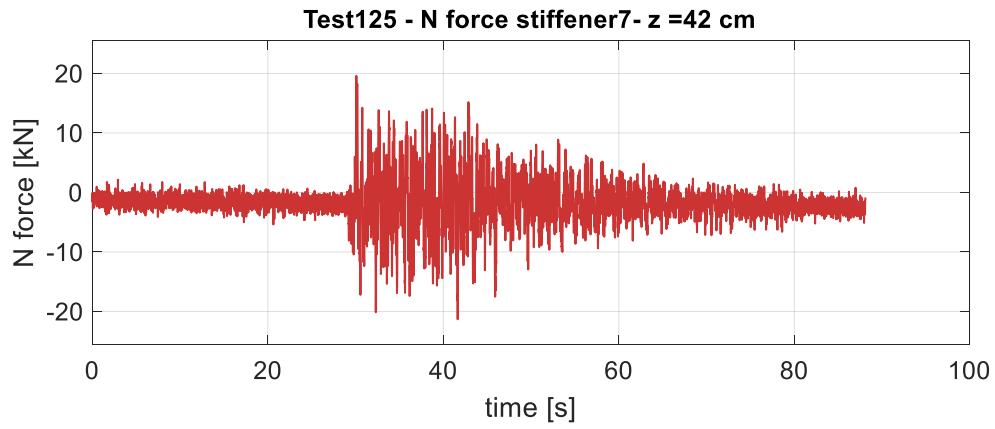
Quota Z = 42 cm: montante 5



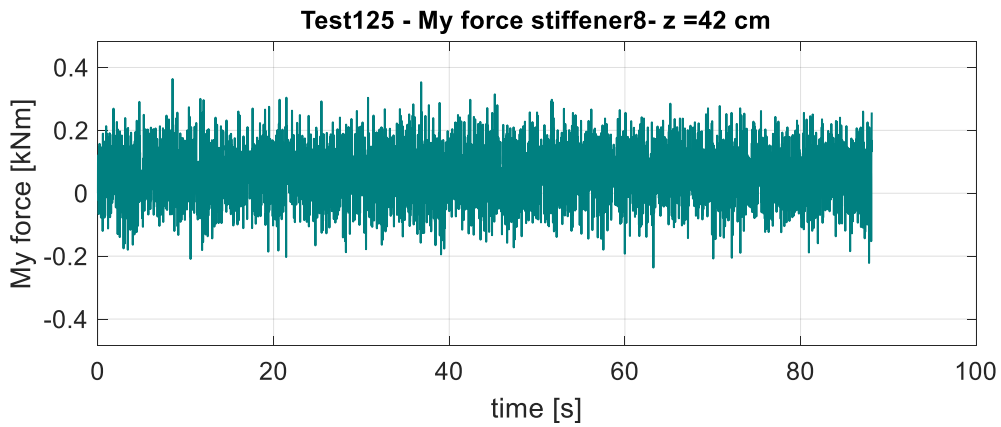
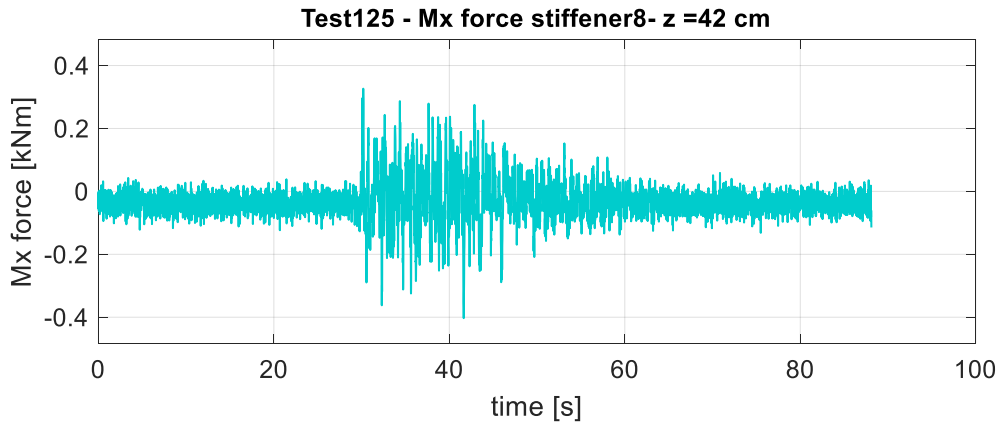
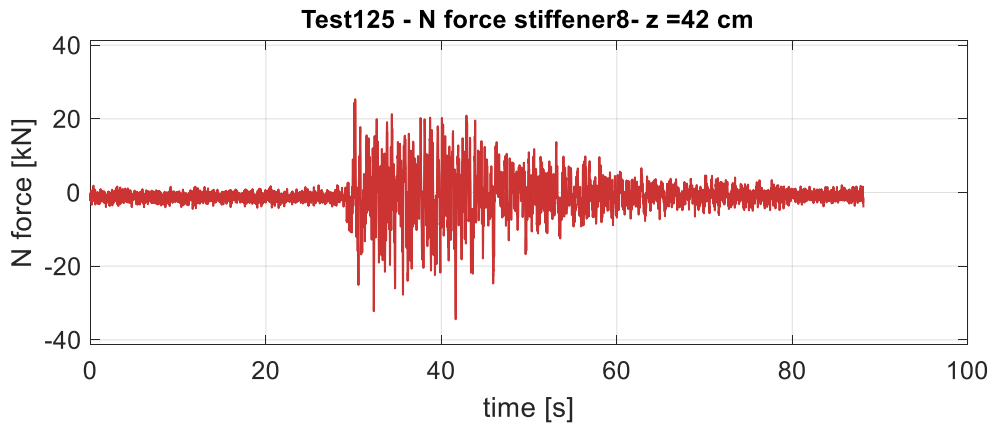
Quota Z = 42 cm: montante 6



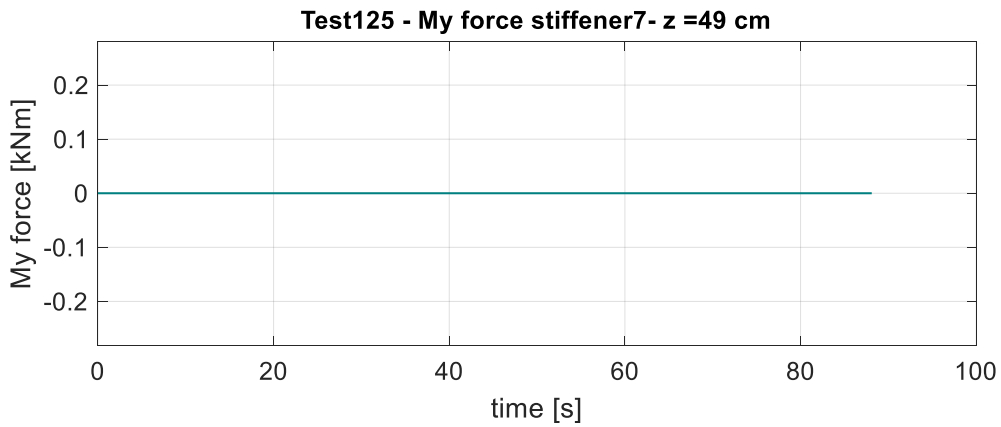
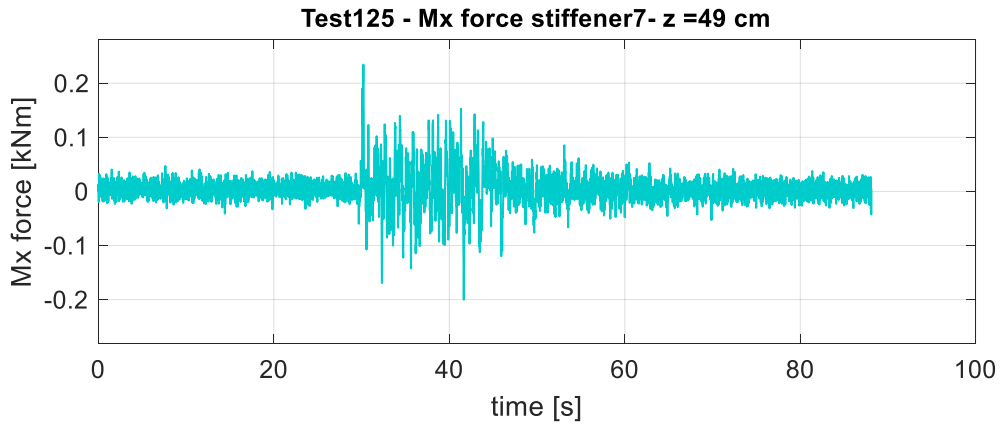
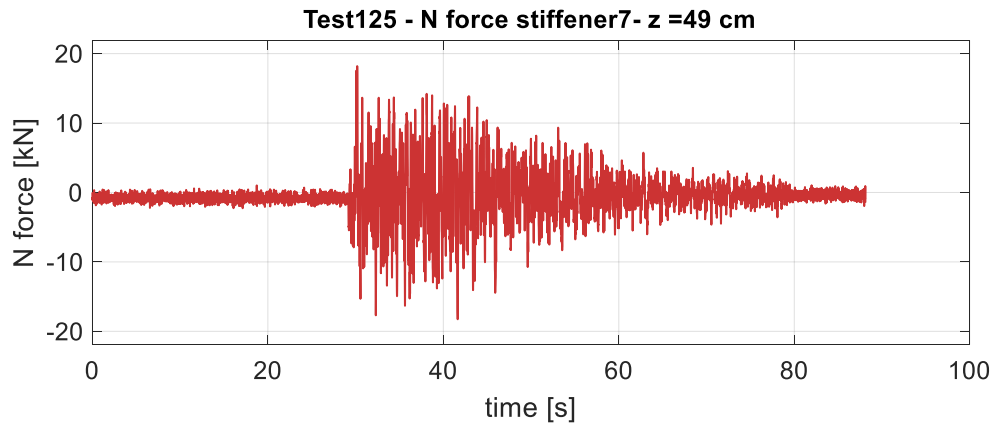
Quota Z = 42 cm: montante 7



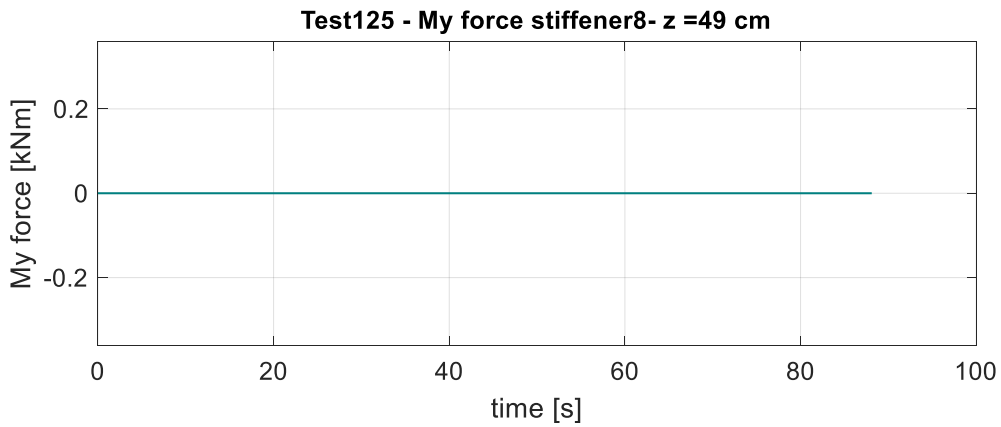
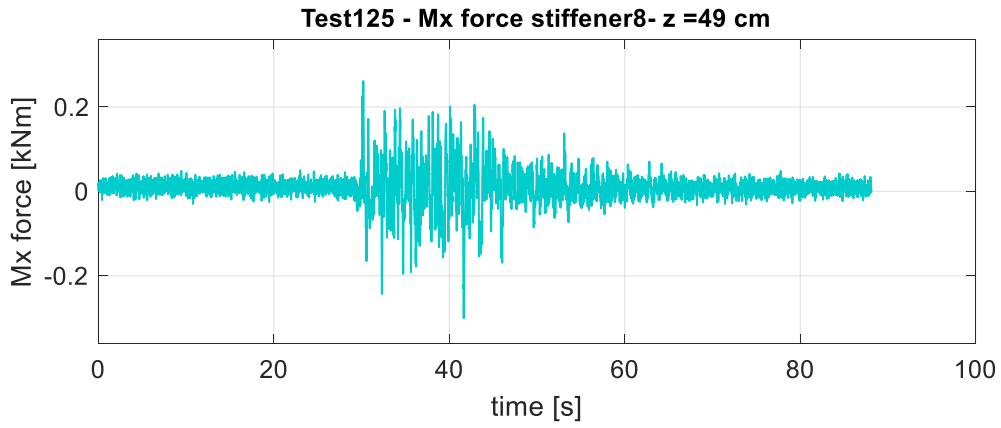
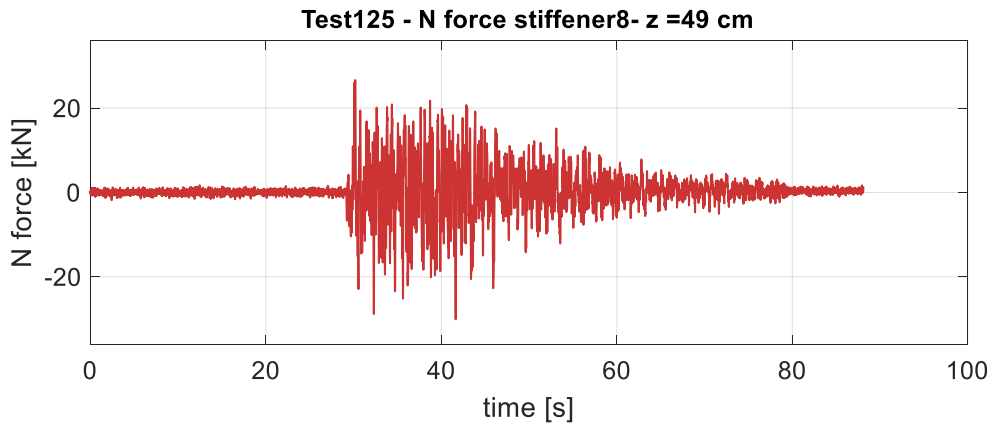
Quota Z = 42 cm: montante 8



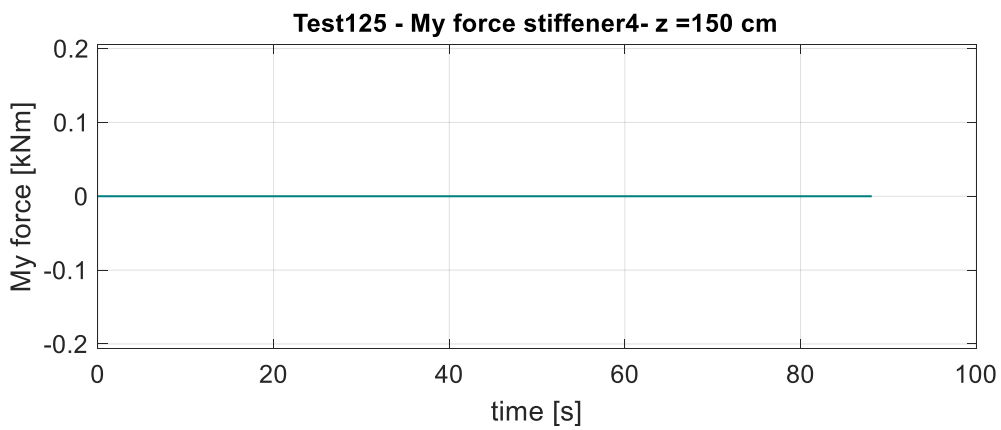
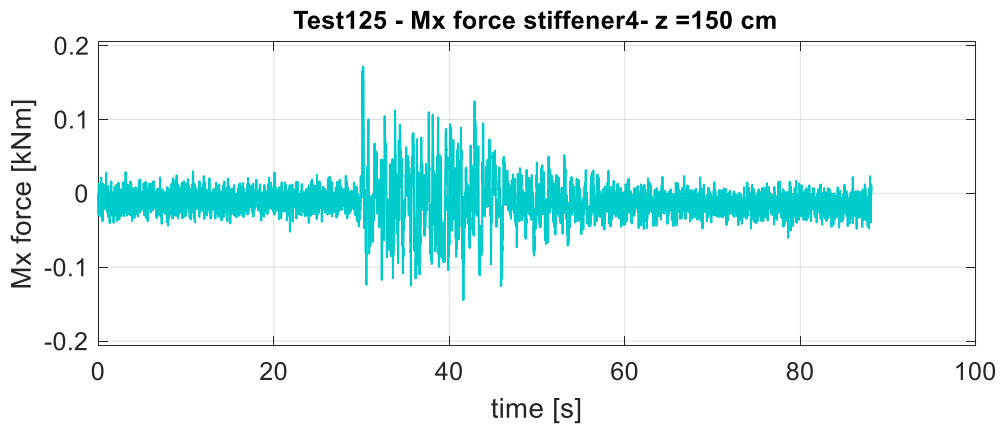
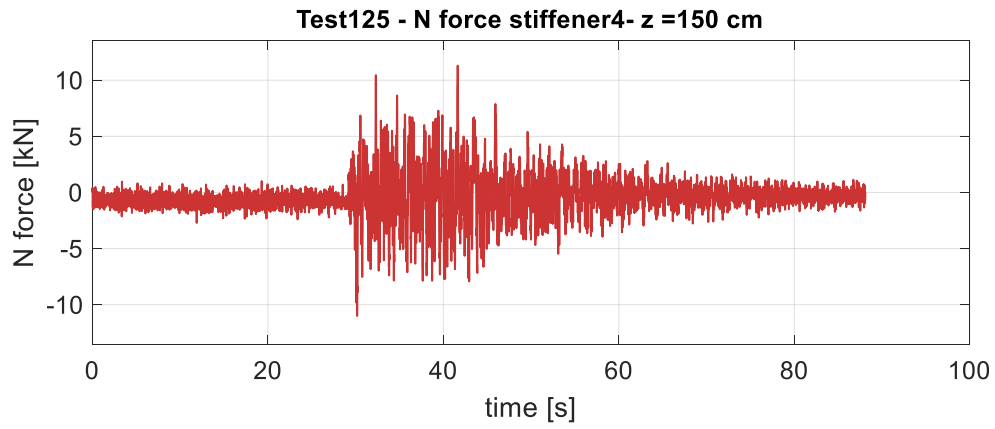
Quota Z = 49 cm: montante 7



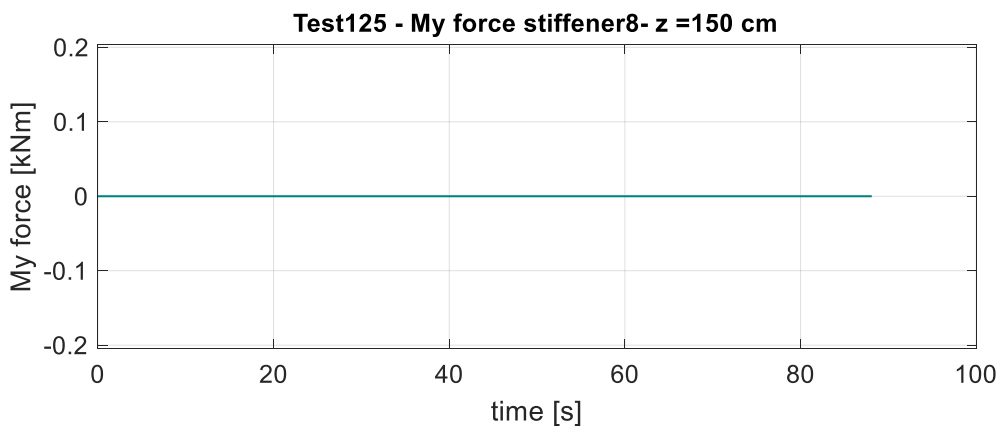
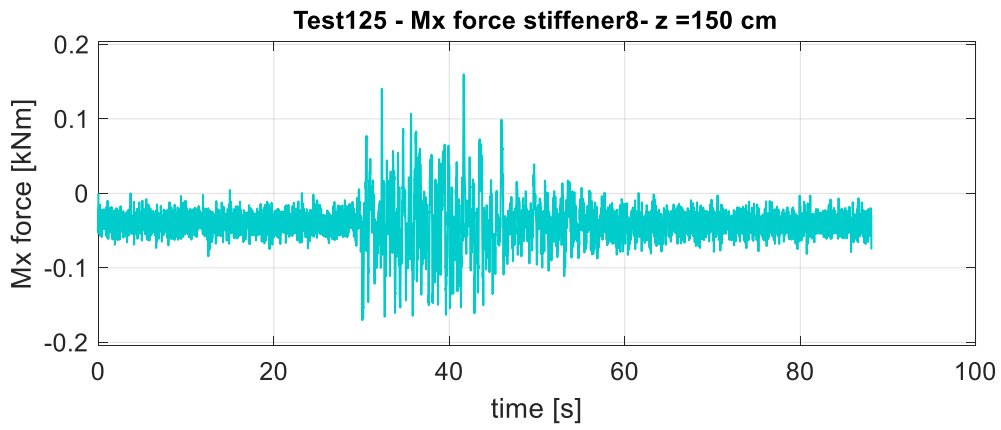
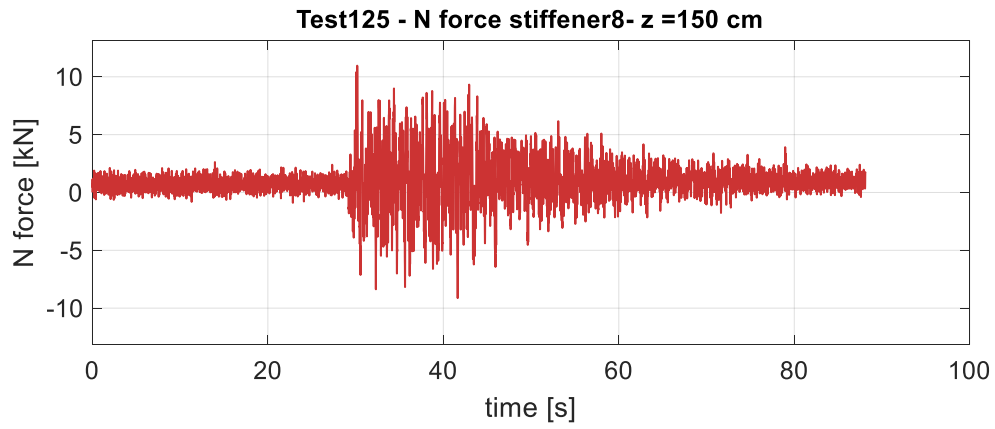
Quota Z = 49 cm: montante 8



Quota Z = 150 cm: montante 4



Quota Z = 150 cm: montante 8



Quota Z = 250 cm: montante 8

