



## Comparative Tests

## Compressibility Indentation

Doc. PROC - LAB - 011

Data: 08 - 01 - 2011

Folha. 1 de 8 Rev. 0

Item #	Brand/ /Model	Sample # / Job #	Thickness				Indentation				Comp. Loss %	Gauge Loss @		HE Hysteresis Nmm	Energy Elastic Nmm	Damping Capacity % (DC)	Test Time s
			D0 mm	D1 mm	D04 mm	D5 mm	I1 μm	I5 μm	Ip1 %	Ip5 %		60kPa μm	1060kPa μm				
1	A / I	W740/-----	1,98	1,82	1,93	1,81	157	118	8,6	6,5	25,1	48,2	9,1	0,86	6,35	13,6	71,7
2	B / I	W770/1003120	2,02	1,85	1,98	1,85	165	136	8,9	7,4	17,9	33,9	5,0	0,26	6,70	3,9	80,3
3	B / II	W760/00515055	2,01	1,90	1,98	1,89	115	82	6	4,3	28,8	35,2	2,0	0,18	4,10	4,4	52,3
4	B / II	W1060/00609076	1,98	1,80	1,94	1,80	179	142	9,9	7,9	20,6	41,1	4,0	0,70	7,4	9,0	84,4
5	C / I	266P/3374330	2,02	1,86	1,98	1,85	161	123	8,6	6,6	23,3	43,5	5,7	0,74	6,41	11,5	73,7
6	C / I	316P/3345240	2,00	1,84	1,96	1,83	163	130	8,9	7,1	20,2	39,5	6,5	0,90	6,79	13,3	77,2
7	C / I	338P/3241271	2,00	1,80	1,95	1,78	201	164	11,2	9,2	17,7	50,1	13,4	1,25	8,99	13,9	95,6
8	C / I	349P/3345240	2,00	1,78	1,94	1,77	218	172	12,3	9,8	21,1	56,3	10,3	1,28	9,32	13,7	100,4
9	C / I	378P/332522-4	2,00	1,71	1,92	1,70	287	219	16,8	12,9	23,7	74,6	6,7	1,16	9,57	12,1	128,4
10	H / I	159 / -	1,95	1,80	1,91	1,79	156	118	8,68	6,6	23,7	47,1	9,5	1,16	6,50	17,9	71,8
11	H / II	158 / -	1,94	1,78	1,90	1,77	161	127	9,06	7,2	20,7	43,5	9,6	1,19	6,95	17,1	75,1
12	H / III	141 / -	1,94	1,83	1,92	1,83	106	87	5,8	4,8	16,9	24,4	5,3	0,37	4,67	7,8	52,8
13	H / III	141 / -	1,95	1,84	1,92	1,83	111	88	6	4,8	19,7	28,8	6,6	0,25	4,73	5,4	54,4
14	H / IV	91 / -	2,10	1,93	2,04	1,92	164	117	8,5	6,1	28,3	56,7	10,7	0,86	6,48	13,2	71,2
50	I / I	142 / -	1,94	1,37	1,82	1,34	575	488	42	36,5	15,1	119,2	32,2	6,81	24,90	27,3	275,7

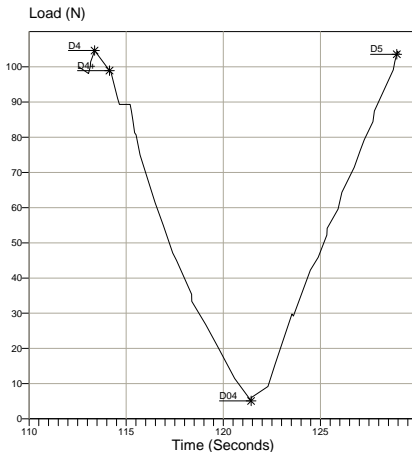
Test standard: ISO 12636 4.5  
 Tester: Lloyd LR 10K Plus (Speed: 1 mm/min)  
 Disk: 11,20 mm Ø Operator: DMiranda  
 Graphs: Row # all

**Legend**  
 Compressibility I1=(D0-D1) mm  
 I5=(D04-D5) mm  
 Ip1=[(D0-D1)/D0\*100] %  
 Ip5=[(D04-D5)/D04\*100] %  
 Cp Loss=[(I1-I5)/I1\*100] %  
 HE: D5 -D4 (Nmm)  
 EE: D5-D04 (Nmm)

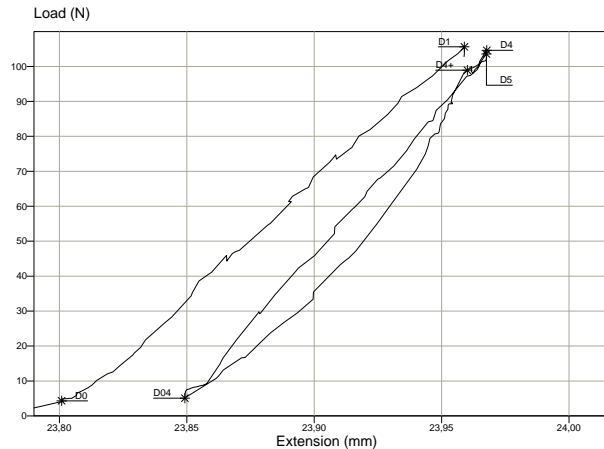
Thickness (mm)  
 D0; D04: @ 60 kPa  
 D1; D5: @ 1060 kPa  
 Gauge Loss GL (μm)  
 @ 60 kPa = D0-D04  
 @ 1060 kPa = D1-D5  
 DC: (HE-EE)/EE\*100%  
 Test Time: D5 -D0 (s)

**Results: Row #1**  
 I1: 0,16 mm  
 I5: 0,12 mm  
 Ip1: 8,6 %  
 Ip5: 6,5 %  
 Cp Loss: 25 %

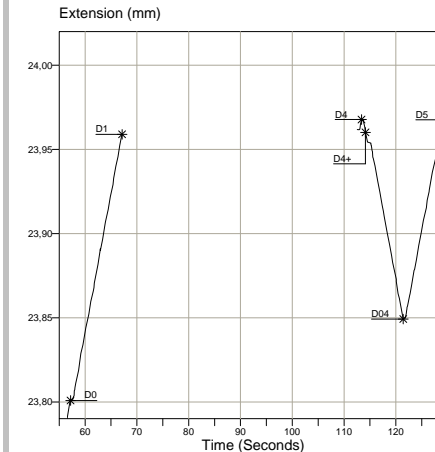
GL @: 60 kPa: 48 μm  
 GL @1060 kPa: 9 μm  
 HE: 0,86 Nmm  
 EE: 6,35 Nmm  
 DC: 13,6 %  
 Test Time: 72 s



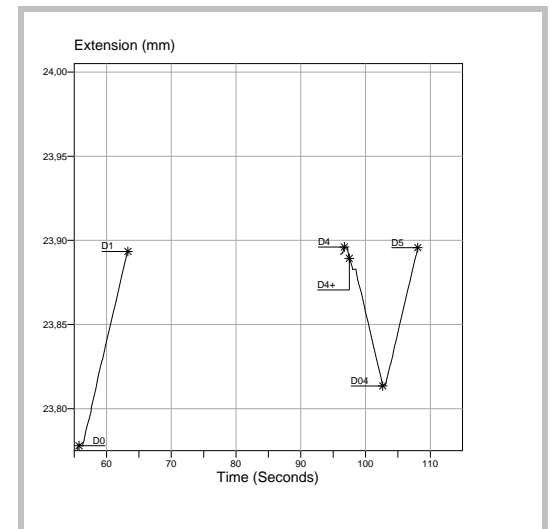
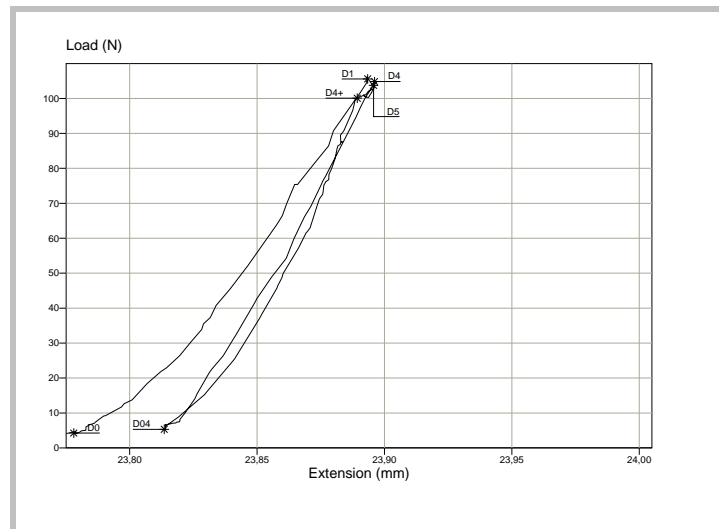
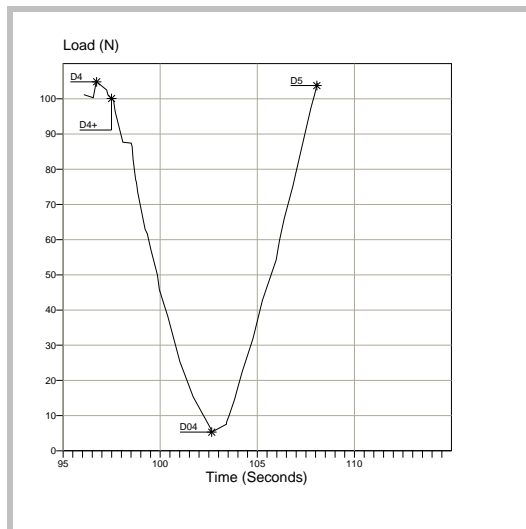
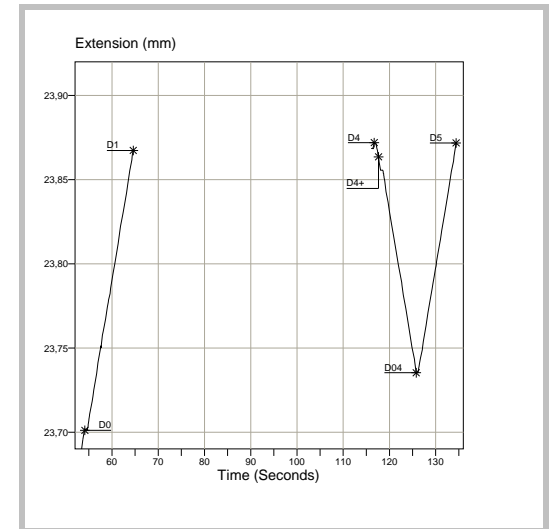
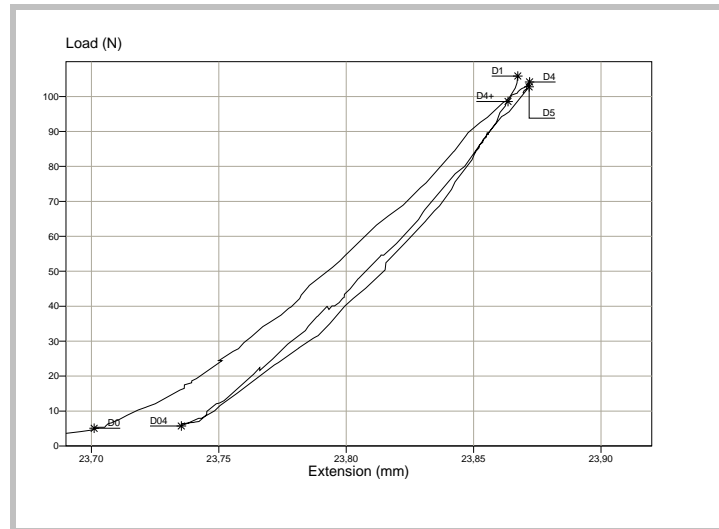
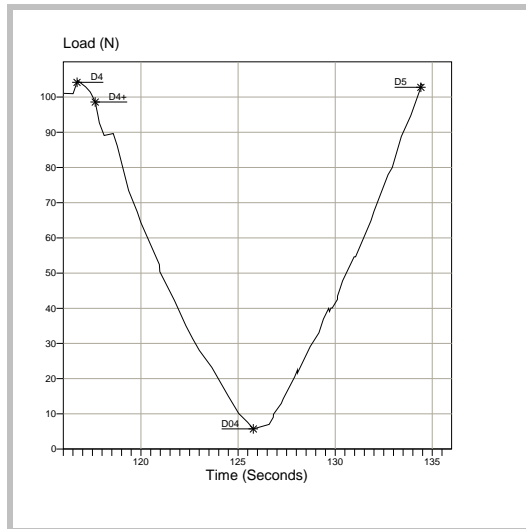
Default Time Span=20"

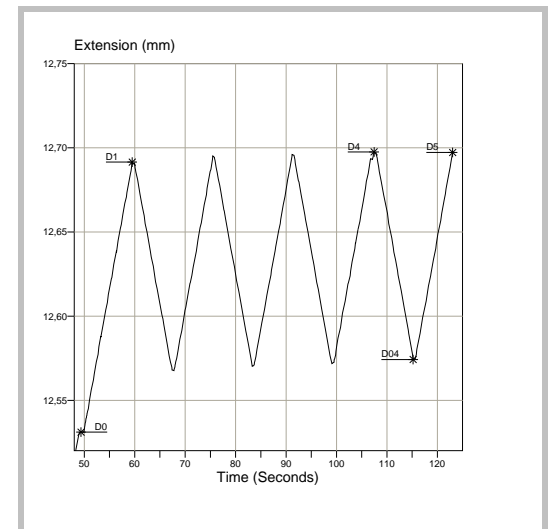
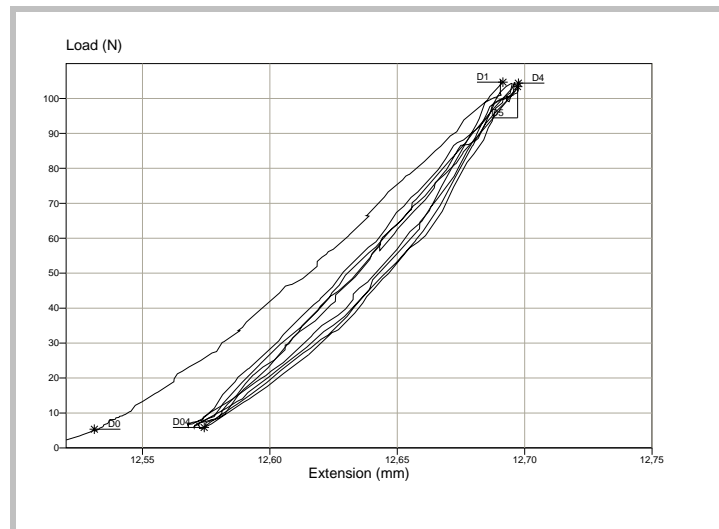
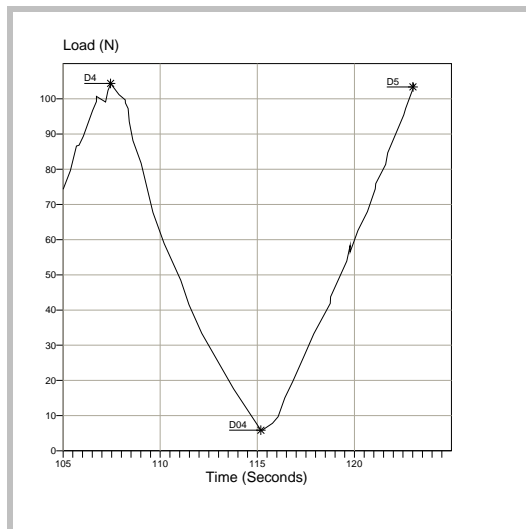
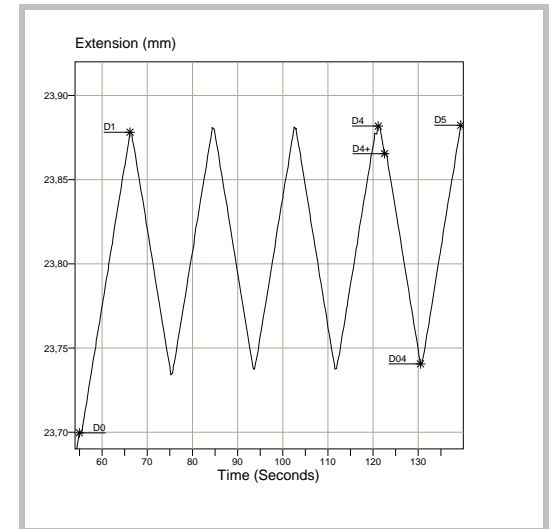
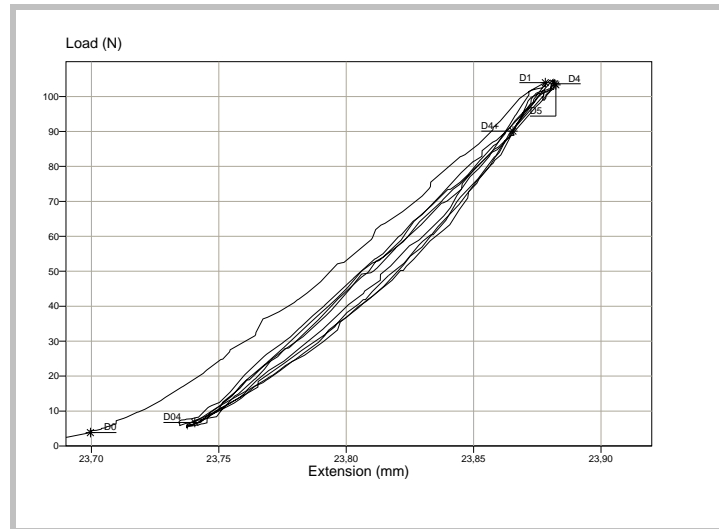
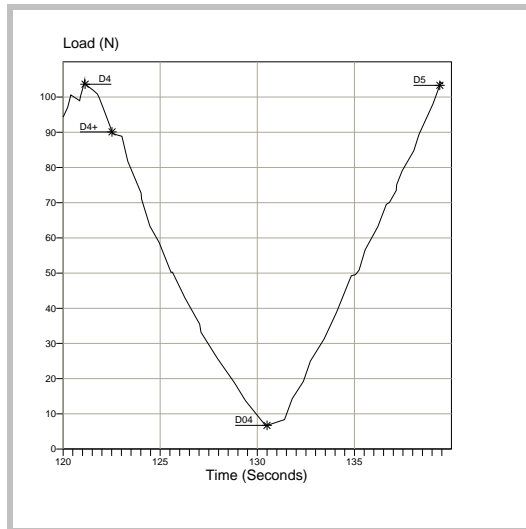


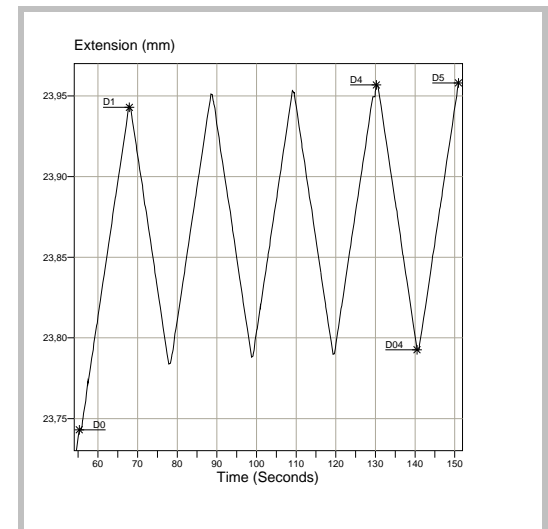
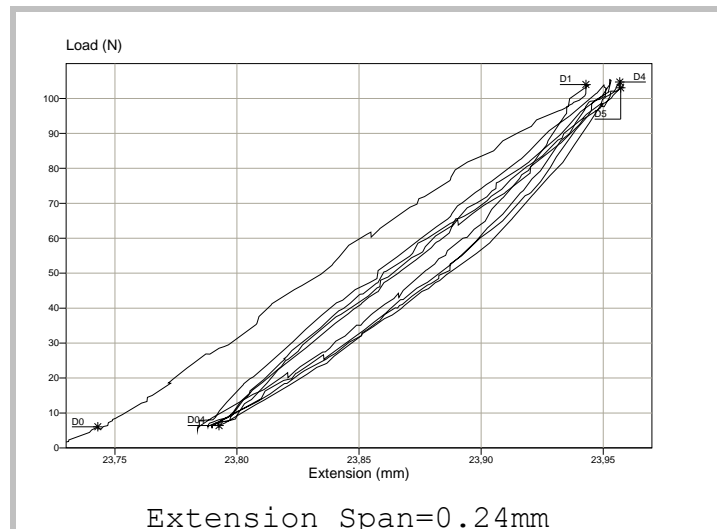
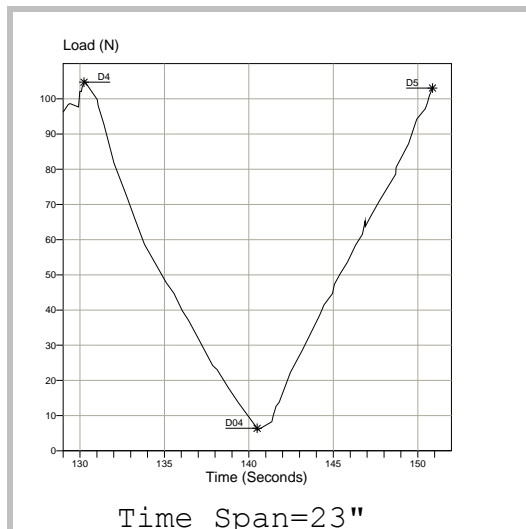
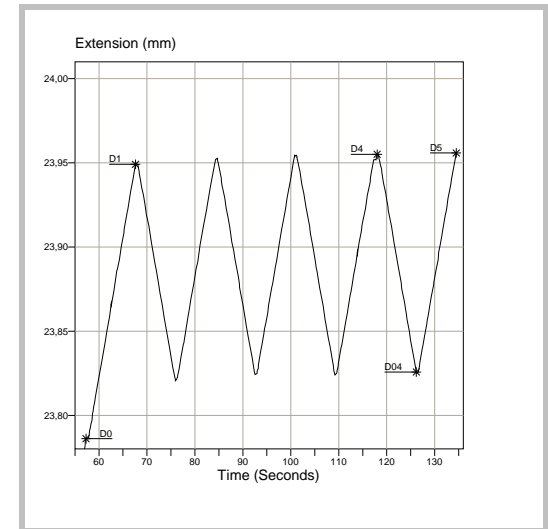
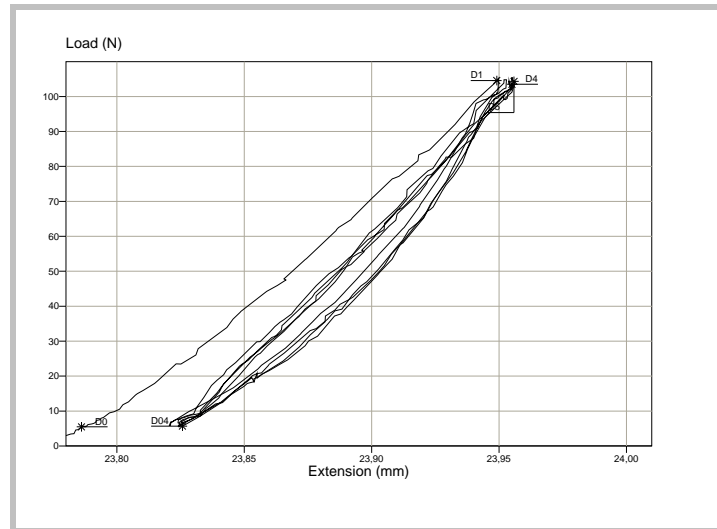
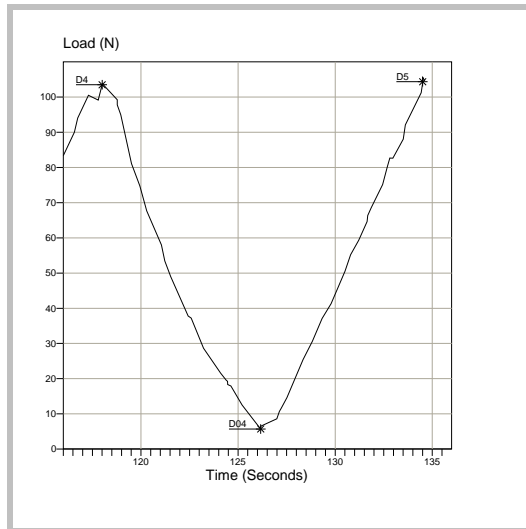
Default Extension Span=0.23mm

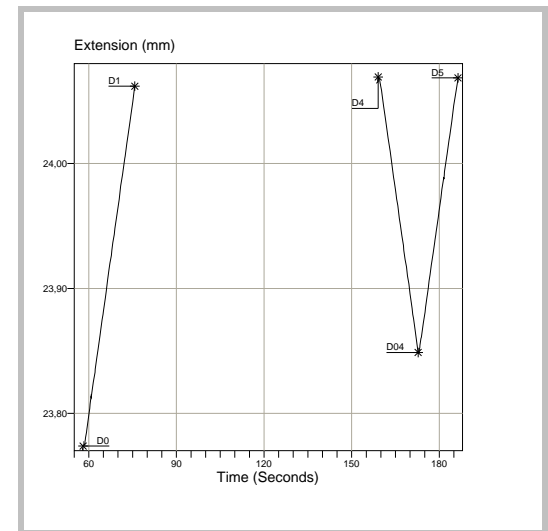
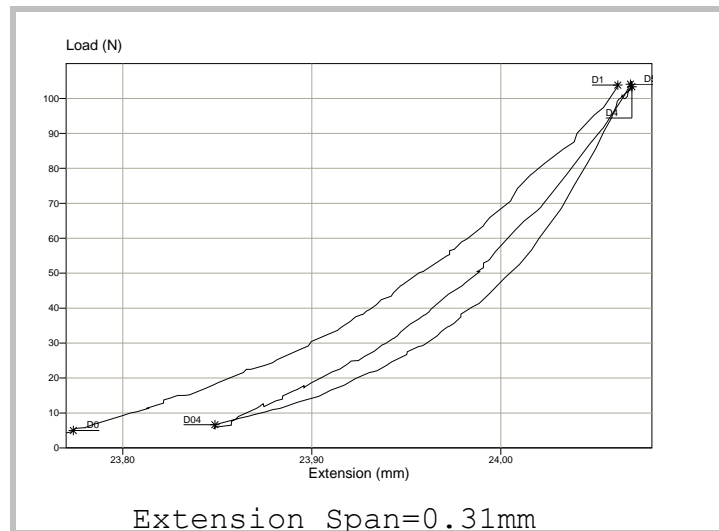
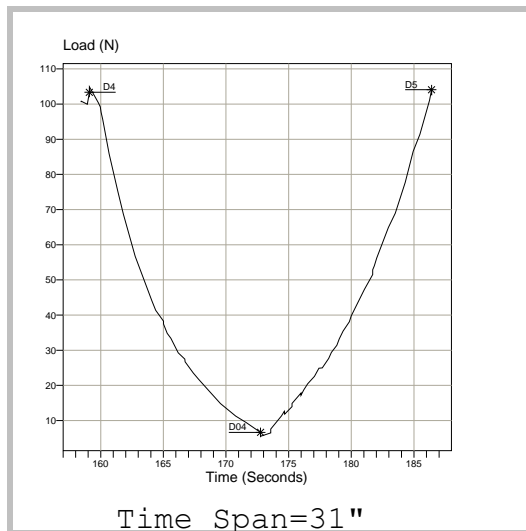
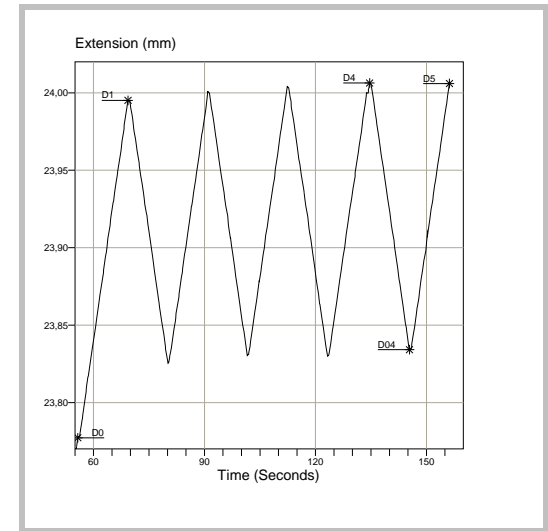
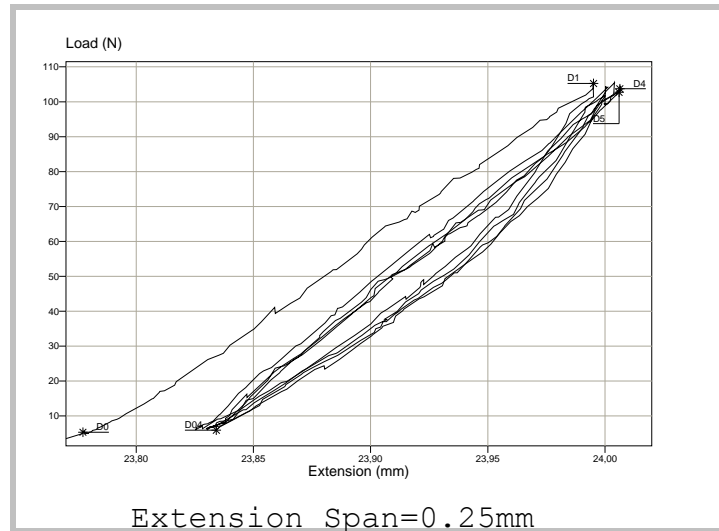
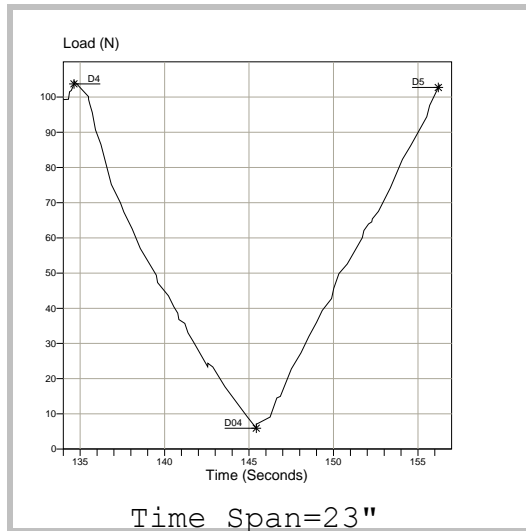


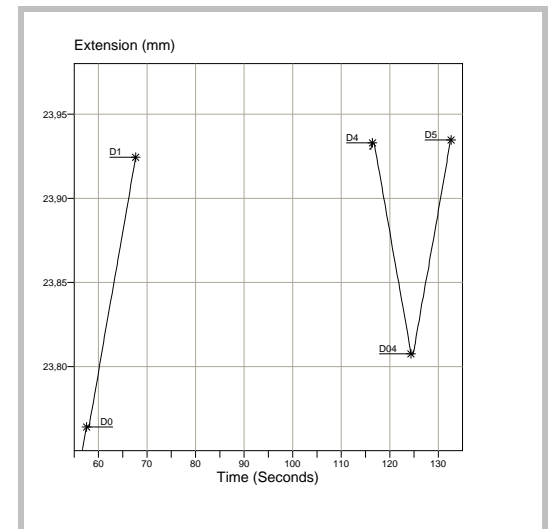
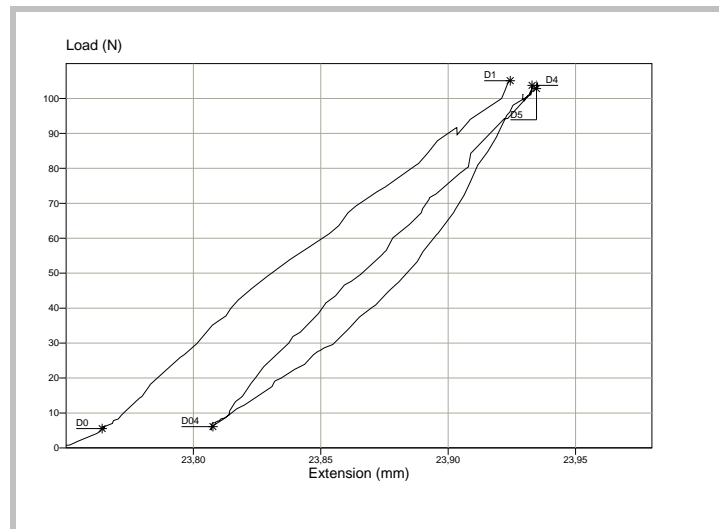
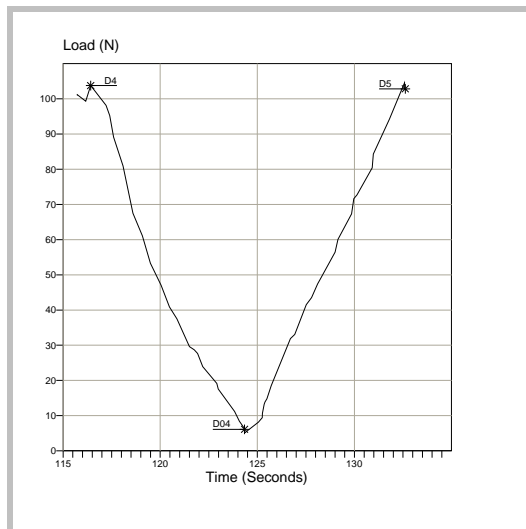
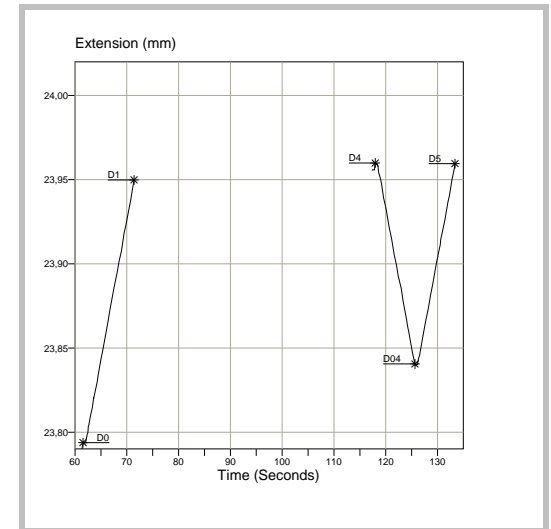
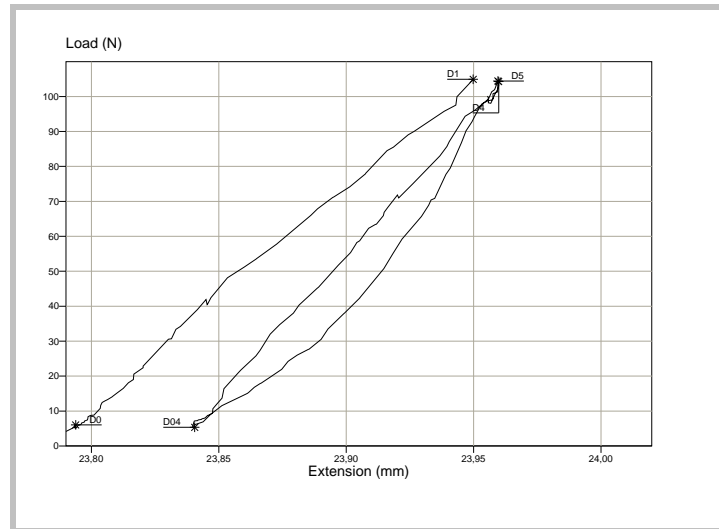
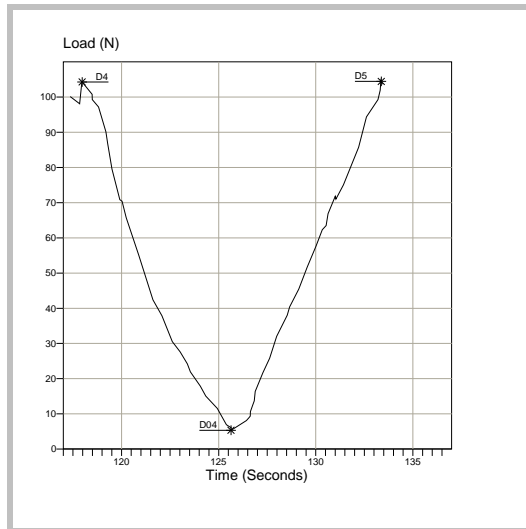
Time Span~T (D5-D0)

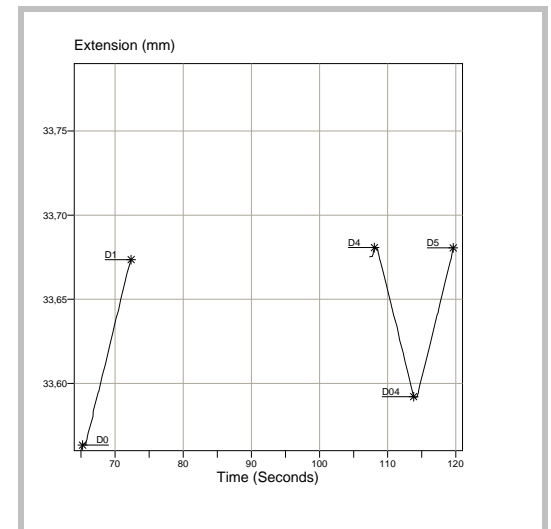
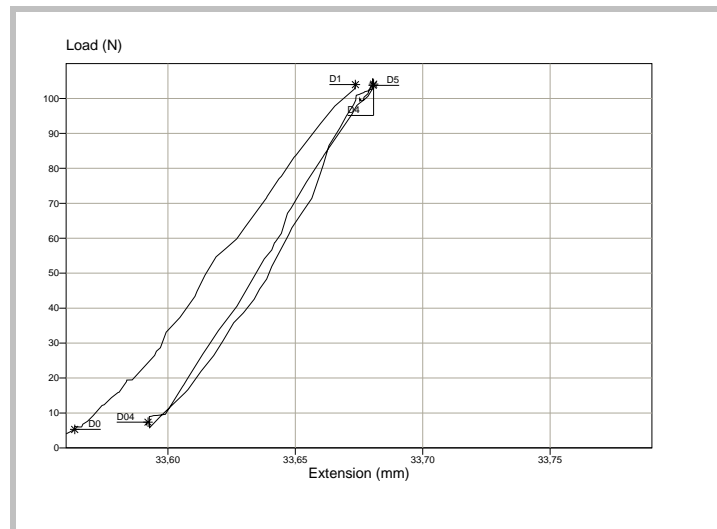
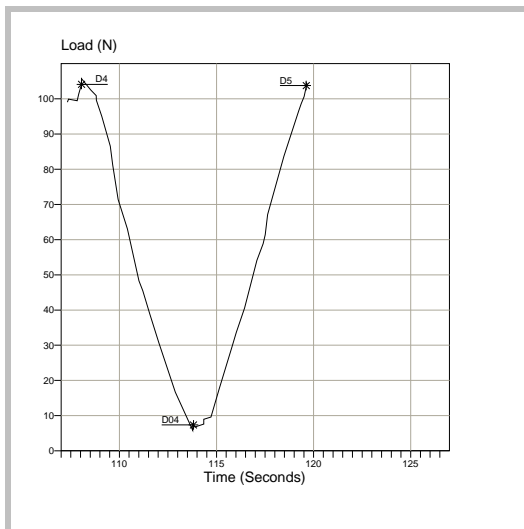
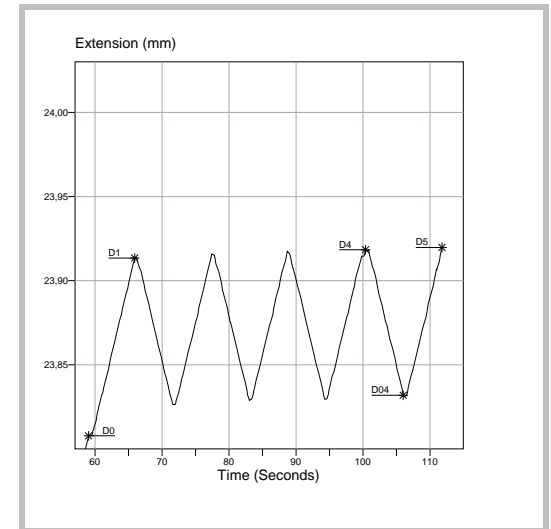
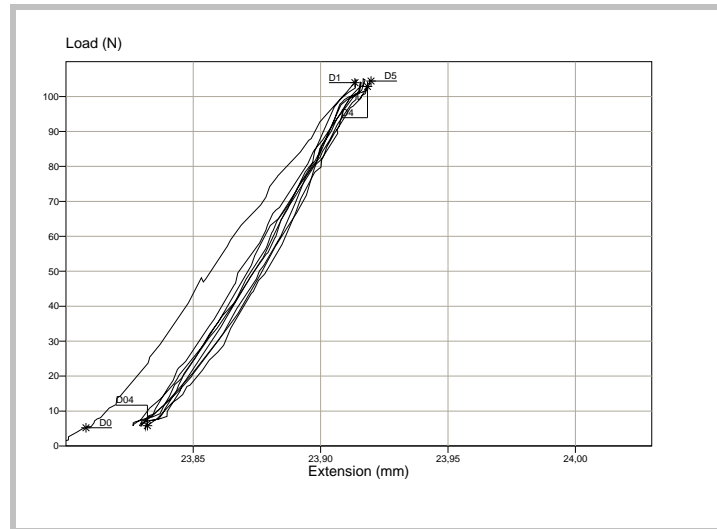
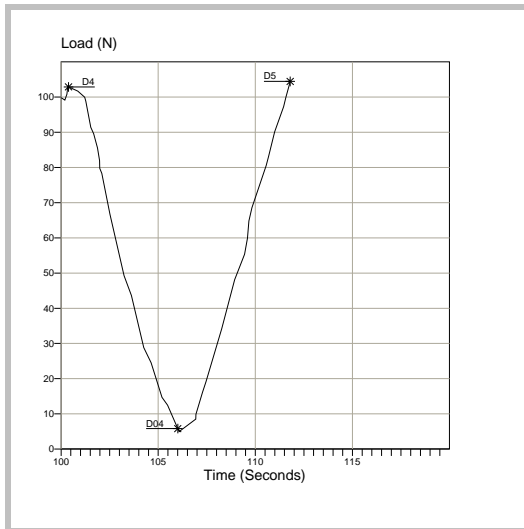














Iberográfica

Capa Rota - Portugal

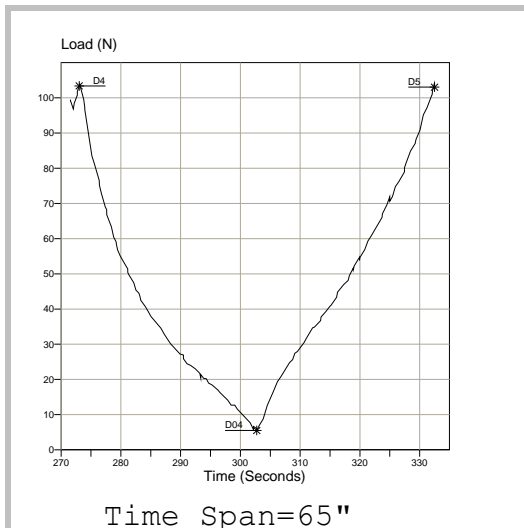
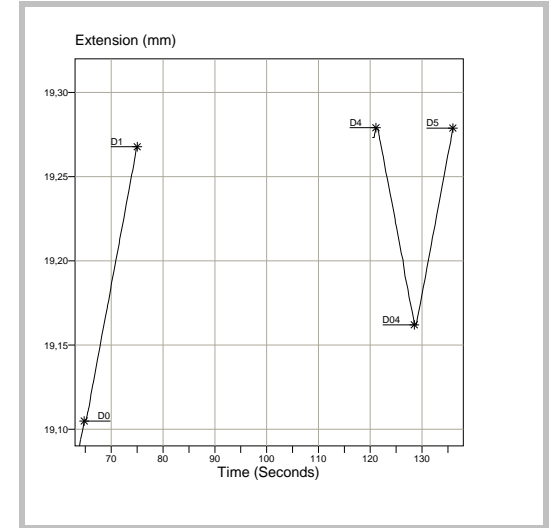
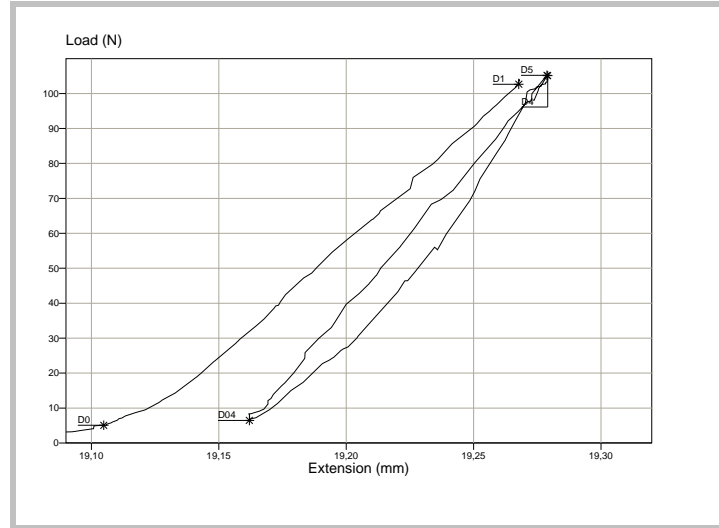
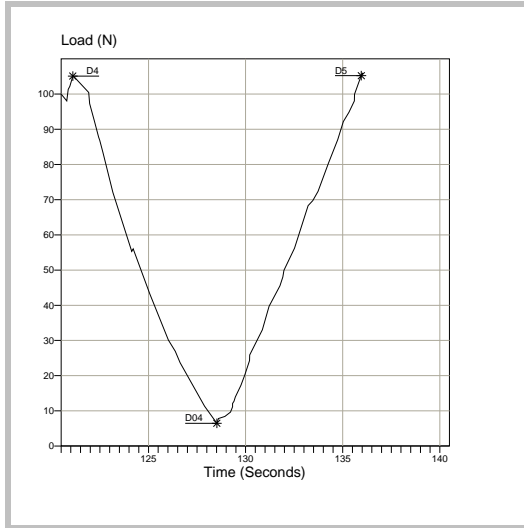
# Comparative Tests

# Compressibility Indentation

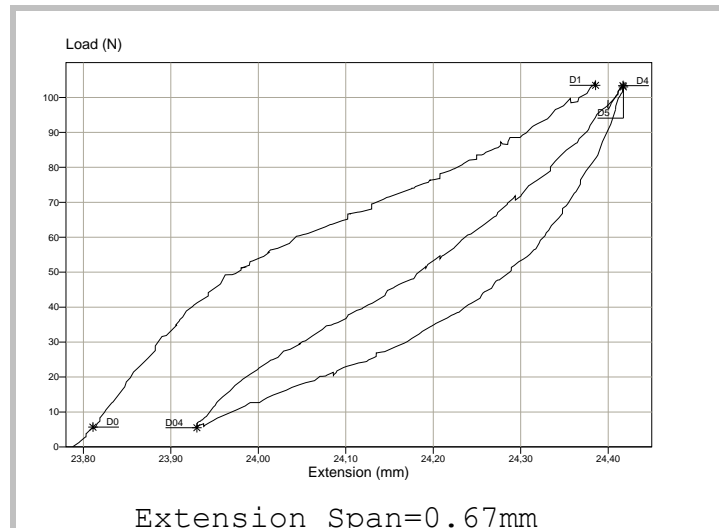
Doc. PROC - LAB - 011

Data: 08 - 01 - 2011

Folha. 8 de 8 Rev. 0



Time Span=65"



Extension Span=0.67mm

