

Simplified								Simplified									
EN	13286-2:2005 7.3 simplified Proctor	Rummer-head	diameter	50	mm	0,05	m	Theory B&C uncompacted soil Dynamic test simplified Pr model	Disc	diameter	163	mm	0,163	m	not used in CWA 15846		
			mass	2,5	kg	2,5	kg		falling weight	mass	10	kg	10	kg			
		Pr.pit "A"	diameter	100	mm	0,1	m		disc/soil	diameter	163	mm	0,163	m			
			height	120	mm	0,12	m		efficient	deep app.	150	mm	0,15	m			
		topring	height min	50	mm	0,05	m		efficient	deep +max	50	mm	0,05	m			
		dropping	height	30,5	cm	0,305	m		dropping	height	75	cm	0,75	m			
		course	thickness	kb 8	cm	-	-										
		course	number	3	pc	3	pc										
		drop/course	number	25	pc	25	pc										
		gravity acceleration		g=	9,80665	m/sec2	9,80665		m/sec2	dropping	number	6	pc	6		pc	
	"A" Proctor mould	area	Ap=	7854,0		0,0079	m2	depending on LAT°									
	"A" Proctor mould	volume	Vp=	942477,8		0,000942	m3	depending on LAT°									
	Pr.pit+topring	volume	Vpt=	1335176,9		0,001335	m3	B&C									
	rummer-head	area	Aph=	1963,495		0,0020	m2	uncompacted soil									
	Pr.mould/rummerhead	area ratio	Ap/Aph=	4	-	4	-	Dynamic test									
	drop/course	mean	N drop	18,75	75helyett	18,75	drop/pit	simplified Pr model									
	W compaction	m.g,h*drop	W comp	14020,44		140,204	Joule	drop/course	mean	N drop	6	6	drop/pit	Calculated		EN (false)	
	Work/surface		W/Ap	1,7851385		17851,38	J/m2	W compaction	m.g,h*drop	W comp	44129,93		441,299	Joule	Work(real)		x4??*
	Work/volume	only pit	W/V	0,0148762		148761,5	J/m3	Work/surface		W/As	2,11479414		21147,94	J/m2	0,0211	MJ/m2	0,0846
	Work/volume	pit+topring	W/V	0,0105008		105008,1	J/m3	Work/volume	15cm course	W/Vmin	0,01409863		140986,3	J/m3	0,1410	MJ/m3	0,5639
							Work/volume	20cm course	W/Vmax	0,01057397		105739,7	J/m3	0,1057	MJ/m3	0,4230	

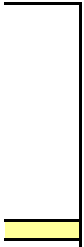
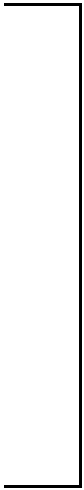
*EN 13286-2 doesn't take into consideration that the pit area is not equal to the compacting rammer head area

Modified								Modified									
EN	13286-2:2005 7.4 modified Proctor	Punner-head	diameter	50	mm	0,05	m	B&C	Disc	diameter	163	mm	0,163	m	for On-Site Proctor test with B&C		
			mass	4,5	kg	4,5	kg		falling weight	mass	10	kg	10	kg			
		Pr.pit "A"	diameter	100	mm	0,1	m		disc/soil	diameter	163	mm	0,163	m			
			height	120	mm	0,12	m		efficient	deep app.	150	mm	0,15	m			
		topring	height min	50	mm	0,05	m		efficient	deep +max	50	mm	0,05	m			
		dropping	height	45	cm	0,45	m		dropping	height	75	cm	0,75	m			
		course	thickness	kb 5	cm	-	-										
		course	number	5	pcs	5	pcs										
		drop/course	number	25	pcs	25	pcs										
		gravity acceleration		g=	9,80665	m/sec2	9,80665		m/sec2	depending on LAT°							
	"A" Proctor mould	area	Ap=	7854,0		0,0079	m2	need:22-27 drops									
	"A" Proctor mould	volume	Vp=	942477,8		0,000942	m3	B&C-01									
	Pr.pit+topring	volume	Vpt=	1335176,9		0,001335	m3	Theory									
	rummer-head	area	Aph=	1963,495		0,0020	m2	uncompacted soil									
	Pr.mould/rummerhead	area ratio	Ap/Aph=	4	-	4	-	B&C-01									
	drop/course	mean	N drop	31,25	<?>125?	31,25	drop/pit	uncompacted soil									
	W compaction	m.g,h*drop	W comp	62057,71		620,577	Joule	drop/course	mean	N drop	22	22	drop/pit	Calculated		EN (false)	
	Work/surface		W/Ap	7,9014327		79014,33	J/m2	W compaction	m.g,h*drop	W comp	161809,7		1618,097	Joule	Work(real)		x4??*
	Work/volume	only pit	W/V	0,0658453		658452,7	J/m3	Work/surface		W/As	7,7542452		77542,45	J/m2	0,079	MJ/m2	0,316
	Work/volume	pit+topring	W/V	0,046479		464790,2	J/m3	Work/volume	15cm course	W/Vmin	0,05169497		516949,7	J/m3	0,517	MJ/m3	2,068
							Work/volume	20cm course	W/Vmax	0,03877123		387712,3	J/m3	0,388	MJ/m3	1,551	

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Modified								Modified									
EN	13286-2:2005 7.4 modified Proctor	Punner-head	diameter	50	mm	0,05	m	B&C	Disc	diameter	163	mm	0,163	m	Compactness test with B&C		
			mass	4,5	kg	4,5	kg		falling weight	mass	10	kg	10	kg			
		Pr.pit "A"	diameter	100	mm	0,1	m		disc/soil	diameter	163	mm	0,163	m			
			height	120	mm	0,12	m		efficient	deep app.	150	mm	0,15	m			
		topring	height min	50	mm	0,05	m		efficient	deep +max	50	mm	0,05	m			
		dropping	height	45	cm	0,45	m		dropping	height	75	cm	0,75	m			
		course	thickness	kb 5	cm	-	-										
		course	number	5	pcs	5	pcs										
		drop/course	number	25	pcs	25	pcs										
		gravity acceleration		g=	9,80665	m/sec2	9,80665		m/sec2	depending on LAT°							
	"A" Proctor mould	area	Ap=	7854,0		0,0079	m2	need:22-27 drops									
	"A" Proctor mould	volume	Vp=	942477,8		0,000942	m3	B&C-1									
	Pr.pit+topring	volume	Vpt=	1335176,9		0,001335	m3	precompact soil									
	rummer-head	area	Aph=	1963,495		0,0020	m2	CWA 15846									
	Pr.mould/rummerhead	area ratio	Ap/Aph=	4	-	4	-	precompact soil									
	drop/course	mean	N drop	31,25	<?>125?	31,25	drop/pit	precompact soil									
	W compaction	m.g,h*drop	W comp	62057,71		620,577	Joule	drop/course	average	N drop	18	18	drop/pit	Andreas		EN	
	Work/surface		W/Ap	7,9014327		79014,33	J/m2	W compaction	m.g,h*drop	W comp	132389,78		1323,898	Joule	Work(real)		x4??*
	Work/volume	only pit	W/V	0,0658453		658452,7	J/m3	Work/surface		W/As	6,34438243		63443,82	J/m2	0,0634	MJ/m2	0,2538
	Work/volume	pit+topring	W/V	0,046479		464790,2	J/m3	Work/volume	15cm course	W/Vmin	0,04229588		422958,8	J/m3	0,4230	MJ/m3	1,6918
							Work/volume	20cm course	W/Vmax	0,03172191		317219,1	J/m3	0,3172	MJ/m3	1,2689	

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prø/un%
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