



## STREAMLINE™

INTEGRAL DRIPPER

12060 - 12080 - 16060 - 16080  
16100 - 16125 - 22080 - 22100

### APPLICATIONS:

- Row crops irrigation

### SPECIFICATIONS:

- Recommended filtration: 130 micron / 120 mesh
- TurboNet™ labyrinth with large water passage.
- To be "welded" into a thin-walled dripperlines (0.15 , 0.20 , 0.25 , and 0.31 mm).
- Injected dripper, very low CV.
- UV resistant . Resistant to standard nutrients used in agricultural
- Streamline™™ drippers meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII)

### FEATURES AND BENEFITS:

- Wide filtration area to ensure optimal performance .
- TurboNet™ labyrinth assures wide water passages, large deep and wide cross section improves clogging resistance
- The water is drawn in to the dripper from the stream center, preventing the entrance of sediments in to the drippers.
- Injection molded dripper construction , ensuring uniform drippers and very low CV

## DRIPPERS TECHNICAL DATA

12060 & 16060 - 0.15 mm. wall thickness dripperlines

FLOW RATE* (L/H.)	MAX. WORKING PRESSURE** (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM.)	FILTRATION AREA (MM <sup>2</sup> )	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.80	1.4/0.8	0.58 x 0.33 x 25	14	0.265	0.48	130/120
1.10	1.4/0.8	0.51 x 0.42 x 13	15	0.392	0.45	130/120
1.60	1.4/0.8	0.66 x 0.55 x 13	17	0.568	0.45	130/120
2.20	1.4/0.8	0.66 x 0.72 x 13	17	0.780	0.45	130/120

\* Flow rate at 1.0 bar pressure \*\*According to dripperlines inside diameter

12080 - 16080 & 22080 - 0.20 mm. wall thickness dripperlines

0.72	1.7/1.0/0.8	0.58 x 0.33 x 25	14	0.238	0.48	130/120
1.05	1.7/1.0/0.8	0.51 x 0.42 x 13	15	0.373	0.45	130/120
1.60	1.7/1.0/0.8	0.66 x 0.55 x 13	17	0.568	0.45	130/120
2.20	1.7/1.0/0.8	0.66 x 0.72 x 13	17	0.780	0.45	130/120

\* Flow rate at 1.0 bar \*\*According to dripperlines inside diameter

16100 , 16125 & 22100 - 0.25 & 0.31 mm. wall thickness dripperlines

0.72	1.2/1.8 /1.0	0.58 x 0.33 x 25	14	0.238	0.48	130/120
1.05	1.2/1.8 /1.0	0.51 x 0.42 x 13	15	0.373	0.45	130/120
1.60	1.2/1.8 /1.0	0.66 x 0.55 x 13	17	0.568	0.45	130/120
2.10	1.2/1.8 /1.0	0.66 x 0.72 x 13	17	0.740	0.45	130/120

\* Flow rate at 1.0 bar \*\*According to dripperlines inside diameter

## DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM.)	WALL THICKNESS (MM.)	OUTSIDE DIAMETER (MM.)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
12060	11.8	0.15	12.10	1.40	1.6	0.15
12080	11.8	0.20	12.20	1.70	2.0	0.15
16060	16.2	0.15	16.50	0.80	0.9	0.10
16080	16.2	0.20	16.60	1.00	1.2	0.10
16100	16.2	0.25	16.70	1.20	1.4	0.10
16125	16.2	0.31	16.82	1.80	2.1	0.10
22080	22.2	0.20	22.60	0.80	0.9	0.01
22100	22.2	0.25	22.70	1.00	1.2	0.01

## DRIPPERLINES PACKAGE DATA (ON CARTON COILS)

MODEL	WALL THICKNESS (MM.)	COIL LENGTH (M.)	DISTANCE BETWEEN DRIPPERS (M.)	AVERAGE* COIL WEIGHT (KG.)	COILS PER PALLET (UNITS)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M.)
12060	0.15	3500	0.10 to 0.25	21.5	20	800	2800000
		3800	0.30 to 1.00	22.9			3040000
12080	0.20	2800	0.10 to 0.25	24.0	20	800	2240000
		3000	0.30 to 1.00	25.3			2400000
16060	0.15	2600	0.10 to 0.25	21.5	20	800	2080000
		3000	0.30 to 1.00	23.5			2400000
16080	0.20	2200	0.10 to 0.25	25.3	20	800	1760000
		2500	0.30 to 1.00	25.8			2000000
16100	0.25	1800	0.10 to 0.25	23.6	20	800	1440000
		2000	0.30 to 1.00	25.9			1600000
16125	0.34	1100	0.10 to 0.25	17.9	20	800	880000
		1300	0.30 to 1.00	20.9			1040000
22080	0.20	1600	0.10 to 0.25	23.6	16	640	1024000
		1800	0.30 to 1.00	25.6			1152000
22100	0.25	1200	0.10 to 0.25	22.0	16	640	768000
		1500	0.30 to 1.00	26.6			960000

\*According to drippers spacing

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12060 • ID 11.8 MM • KD 0.15 • FLOW RATE 0.80 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	57	69	78	85	90	95	98
	1%	64	82	96	108	118	127	135
FLAT TERRAIN	0	72	96	116	136	153	169	186
	-1%	79	109	136	162	187	211	234
DOWNHILL	-2%	86	122	155	189	221	253	286

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12060 • ID 11.8 MM • KD 0.15 • FLOW RATE 1.1 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	51	65	74	82	89	95	98
	1%	56	73	86	98	109	118	126
FLAT TERRAIN	0	61	82	100	116	131	146	158
	-1%	65	89	110	131	151	169	188
DOWNHILL	-2%	70	97	123	148	172	197	221

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12060 • ID 11.8 MM • KD 0.15 • FLOW RATE 1.6 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	42	54	63	70	76	82	86
	1%	45	59	70	81	89	98	105
FLAT TERRAIN	0	48	65	79	92	104	116	126
	-1%	51	69	85	101	115	130	143
DOWNHILL	-2%	53	74	93	111	129	146	163

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12060 • ID 11.8 MM • KD 0.15 • FLOW RATE 2.2 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	35	45	54	60	66	71	76
	1%	37	49	59	68	75	83	89
FLAT TERRAIN	0	40	53	64	75	85	95	103
	-1%	41	56	68	81	92	104	114
DOWNHILL	-2%	43	59	74	88	101	114	127

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12080 • ID 11.8 MM • KD 0.15 • FLOW RATE 0.72 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	59	72	81	88	93	97	100
	1%	68	86	101	114	124	134	142
FLAT TERRAIN	0	77	102	125	145	164	182	198
	-1%	86	118	147	176	203	229	255
DOWNHILL	-2%	94	132	170	206	242	279	315

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12080 • ID 11.8 MM • KD 0.15 • FLOW RATE 1.05 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	53	66	76	84	90	96	100
	1%	58	75	89	101	111	120	130
FLAT TERRAIN	0	63	84	103	120	136	151	165
	-1%	67	92	114	136	156	176	195
DOWNHILL	-2%	72	101	128	154	179	205	230

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12080 • ID 11.8 MM • KD 0.15 • FLOW RATE 1.6 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	42	54	63	70	76	82	86
	1%	45	59	70	81	89	98	105
FLAT TERRAIN	0	48	65	79	92	104	116	126
	-1%	51	69	85	101	115	130	143
DOWNHILL	-2%	53	74	93	111	129	146	163

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 12080 • ID 11.8 MM • KD 0.15 • FLOW RATE 2.2 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	35	45	54	60	66	71	76
	1%	37	49	59	68	75	83	89
FLAT TERRAIN	0	40	53	64	75	85	95	103
	-1%	41	56	68	81	92	104	114
DOWNHILL	-2%	43	59	74	88	101	114	127

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16060 • ID 16.2 MM • KD 0.1 • FLOW RATE 0.8 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	65	71	74	75	76	77	78
	1%	89	107	118	127	132	137	140
FLAT TERRAIN	0	122	162	197	229	259	286	313
	-1%	153	218	281	344	407	470	231
DOWNHILL	-2%	186	103	88	84	82	81	81

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16060 • ID 16.2 MM • KD 0.1 • FLOW RATE 1.1 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	65	74	79	82	84	85	86
	1%	82	101	115	125	134	140	146
FLAT TERRAIN	0	103	138	168	195	220	244	266
	-1%	121	170	218	264	309	354	399
DOWNHILL	-2%	142	208	276	98	92	90	88

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16060 • IID 16.2 MM • KD 0.1 • FLOW RATE 1.6 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	57	66	72	77	80	81	83
	1%	68	86	98	109	118	125	130
FLAT TERRAIN	0	82	108	132	154	174	193	210
	-1%	92	128	162	196	228	260	291
DOWNHILL	-2%	105	151	197	244	113	99	94

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16060 • ID 16.2 MM • KD 0.1 • FLOW RATE 2.2 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	50	59	66	72	74	78	79
	1%	58	73	85	95	104	111	117
FLAT TERRAIN	0	67	89	108	126	142	158	172
	-1%	74	102	128	153	177	201	225
DOWNHILL	-2%	82	116	150	184	218	252	118

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16080 • ID 16.2 MM • KD 0.1 • FLOW RATE 0.72 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	76	85	89	92	94	95	95
	1%	101	122	137	148	157	163	168
FLAT TERRAIN	0	132	176	214	248	280	311	339
	-1%	162	228	292	356	418	481	544
DOWNHILL	-2%	192	284	120	110	106	104	102

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16080 • ID 16.2 MM • KD 0.1 • FLOW RATE 1.05 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	73	85	93	98	101	104	105
	1%	90	112	128	142	152	161	168
FLAT TERRAIN	0	108	144	176	205	231	256	279
	-1%	124	173	219	264	308	351	394
DOWNHILL	-2%	142	205	268	333	128	119	114

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16080 • ID 16.2 MM • KD 0.1 • FLOW RATE 1.60 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	62	74	82	89	93	97	98
	1%	72	91	106	119	129	138	146
FLAT TERRAIN	0	83	110	134	156	176	195	214
	-1%	91	126	159	190	220	250	279
DOWNHILL	-2%	102	145	187	229	271	313	150

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16080 • ID 16.2 MM • KD 0.1 • FLOW RATE 2.20 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	53	65	74	81	85	90	93
	1%	60	77	90	102	112	120	128
FLAT TERRAIN	0	68	90	110	128	144	160	174
	-1%	73	101	126	150	173	195	218
DOWNHILL	-2%	80	113	144	175	205	236	266

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16100/16125 • ID 16.2 MM • KD 0.1 • FLOW RATE 0.72 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	84	96	102	107	109	111	113
	1%	107	131	149	163	173	182	189
FLAT TERRAIN	0	133	177	216	251	283	314	342
	-1%	158	222	282	341	399	457	514
DOWNHILL	-2%	183	268	353	448	534	629	726

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16100/16125 • ID 16.2 MM • KD 0.1 • FLOW RATE 1.05 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	79	94	104	111	115	119	122
	1%	94	118	137	152	165	176	185
FLAT TERRAIN	0	110	146	178	207	233	259	282
	-1%	123	170	214	257	299	340	380
DOWNHILL	-2%	138	197	256	315	374	433	492

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16100/16125 • ID 16.2 MM • KD 0.1 • FLOW RATE 1.60 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	65	80	90	98	104	109	113
	1%	74	95	112	126	137	148	157
FLAT TERRAIN	0	84	112	136	158	179	199	216
	-1%	91	125	157	187	216	244	272
DOWNHILL	-2%	100	141	180	219	257	296	335

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 16100/16125 • ID 16.2 MM • KD 0.1 • FLOW RATE 2.10 L/H • INLET PRESSURE 1.2 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	58	71	82	90	96	101	106
	1%	64	82	97	110	121	131	139
FLAT TERRAIN	0	71	94	115	134	151	167	183
	-1%	76	104	129	154	177	200	222
DOWNHILL	-2%	82	115	146	177	206	236	266

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22080 • ID 22.2 MM • KD 0.01 • FLOW RATE 0.72 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	75	77	78	78	79	78	78
	1%	128	140	145	149	151	153	154
FLAT TERRAIN	0	239	311	375	433	487	538	586
	-1%	367	243	180	171	166	164	162
DOWNHILL	-2%	83	81	80	80	79	79	78

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22080 • ID 22.2 MM • KD 0.01 • FLOW RATE 1.05 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	82	86	87	88	89	90	90
	1%	126	142	152	160	164	167	170
FLAT TERRAIN	0	196	255	308	355	399	440	481
	-1%	267	379	491	218	193	185	180
DOWNHILL	-2%	98	89	86	85	85	84	84

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22080 • ID 22.2 MM • KD 0.01 • FLOW RATE 1.60 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	76	82	84	87	87	88	89
	1%	107	125	138	146	152	157	161
FLAT TERRAIN	0	150	195	235	272	305	337	367
	-1%	190	266	339	412	486	561	207
DOWNHILL	-2%	237	98	90	88	86	85	85

### MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22080 • ID 22.2 MM • KD 0.01 • FLOW RATE 2.20 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	70	77	82	84	85	86	87
	1%	93	111	124	134	142	147	152
FLAT TERRAIN	0	123	160	192	222	250	275	301
	-1%	149	206	260	314	367	420	474
DOWNHILL	-2%	179	259	99	92	89	88	86



## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22100 • ID 14.2 MM • KD 0.1 • FLOW RATE 0.72 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	91	95	96	97	97	98	98
	1%	146	164	173	180	184	186	188
FLAT TERRAIN	0	242	315	380	439	493	544	593
	-1%	345	493	642	236	220	213	209
DOWNHILL	-2%	111	103	101	100	100	99	99

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22100 • ID 14.2 MM • KD 0.1 • FLOW RATE 1.05 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	96	103	106	108	109	110	110
	1%	139	162	177	187	194	200	204
FLAT TERRAIN	0	199	260	312	361	406	449	488
	-1%	257	359	460	562	664	267	245
DOWNHILL	-2%	323	118	111	109	107	106	106

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22100 • ID 14.2 MM • KD 0.1 • FLOW RATE 1.60 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	87	97	102	105	107	108	109
	1%	116	139	155	167	176	183	189
FLAT TERRAIN	0	153	199	239	276	310	343	374
	-1%	185	255	323	390	456	522	589
DOWNHILL	-2%	222	321	124	115	112	109	108

## MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

STREAMLINE™ • 22100 • ID 14.2 MM • KD 0.1 • FLOW RATE 2.20 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	81	91	97	101	103	105	107
	1%	103	124	140	153	163	171	178
FLAT TERRAIN	0	129	168	202	234	262	290	315
	-1%	152	208	261	313	364	415	466
DOWNHILL	-2%	178	253	329	127	118	113	111