

## 135 Double

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- Gravity **30.2 BLG**
- ABV **15 %**
- IBU **59**
- SRM **11**
- Style **English Barleywine**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **25.2 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **36 liter(s)**
- Total mash volume **48 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**

### Mash step by step

- Heat up **36 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **1.2 liter(s)** of **76C** water or to achieve **25.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	11 kg (91.7%)	81 %	6
Grain	Biscuit Malt	1 kg (8.3%)	79 %	45

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	113 g	90 min	5.1 %
Boil	East Kent Goldings	85 g	60 min	5.1 %
Aroma (end of boil)	East Kent Goldings	57 g	0 min	5.1 %
Dry Hop	East Kent Goldings	57 g	---	5.1 %

### Notes

- podzielic ziarno na 2 czesci i zrobic podwojne warzenie jednego dnia  
drozdze odporne na alkohol, english ale  
rok w piwnicy !!!  
*Apr 28, 2018, 3:01 AM*