

## ESB #3

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- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **38**
- SRM **6**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

### Batch size

- Expected quantity of finished beer **22.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **29.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

### Steps

- Temp **69 C**, Time **60 min**

### Mash step by step

- Heat up **17.1 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5.5 kg (96.5%)	85 %	7
Grain	Caramunich® typ I	0.2 kg (3.5%)	73 %	80

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sorachi Ace	30 g	60 min	13.3 %
Aroma (end of boil)	East Kent Goldings	30 g	0 min	5.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 1318 London Ale III	Ale	Slant	200 ml	Wyeast Labs