

## tiny bottom clawhammer

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **39**
- SRM **6.9**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.3 liter(s)**
- Total mash volume **21 liter(s)**

### Steps

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

### Mash step by step

- Heat up **16.3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	3.5 kg (74.9%)	80.5 %	4
Grain	Karmelowy Jasny 30EBC	0.35 kg (7.5%)	75 %	30
Grain	Strzegom Wiedeński	0.27 kg (5.8%)	79 %	10
Grain	Biscuit Malt	0.25 kg (5.4%)	79 %	45
Grain	Strzegom Karmel 150	0.15 kg (3.2%)	75 %	150
Grain	Castle Pale Ale	0.15 kg (3.2%)	80 %	8

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	20 g	60 min	4.5 %
Boil	East Kent Goldings	20 g	60 min	5.1 %
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Boil	East Kent Goldings	20 g	20 min	5.1 %
Boil	Fuggles	30 g	5 min	4.5 %
Boil	East Kent Goldings	20 g	5 min	5.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
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Safale S-04	Ale	Dry	11.5 g	Safale
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### Extras

Type	Name	Amount	Use for	Time
Fining	wirflock	0.5 g	Boil	7 min

### Notes

- drożdże angielskie ~CZ. Dziełak~:  
Po dwóch/trzech dniach mogą zjeść wszystko i trzeba wychwycić podniesienie temperatury, żeby na spokojnie dojadły, a nie rozleniwiły się.  
*Jan 18, 2019, 12:56 PM*