

Perry Groves

- Gravity **11.7 BLG**
- ABV ---
- IBU **40**
- SRM **7**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13 liter(s)**
- Total mash volume **17.4 liter(s)**

Steps

- Temp **65 C**, Time **70 min**

Mash step by step

- Heat up **13 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **70 min** at **65C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (92%)	79 %	6
Grain	Słód Caramunich Typ II Weyermann	0.25 kg (5.7%)	73 %	120
Grain	Strzegom Karmel 30	0.1 kg (2.3%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	30 g	10 min	15 %
Boil	Ella (AUS)	30 g	10 min	14.6 %
Dry Hop	Australian Cascade	40 g	7 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	Fermentis