

Australijskie

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **19**
- SRM **4.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.2 liter(s)**
- Total mash volume **22.1 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **70 C**, Time **30 min**

Mash step by step

- Heat up **17.2 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **70C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4.2 kg (85.7%)	82 %	4
Grain	Carahell	0.4 kg (8.2%)	77 %	26
Grain	Pszeniczny	0.3 kg (6.1%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Galaxy	25 g	10 min	15 %
Whirlpool	Galaxy	30 g	5 min	15 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Liquid	200 ml	Fermentum Mobile