

APA

- Gravity **9.8 BLG**
- ABV **3.8 %**
- IBU **51**
- SRM **5.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.3 liter(s)**
- Total mash volume **23 liter(s)**

Steps

- Temp **68 C**, Time **45 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **17.3 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **45 min** at **68C**
- Keep mash **15 min** at **78C**
- Sparge using **26.5 liter(s)** of **76C** water or to achieve **38 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Cara Gold Castlemalting	0.25 kg (4.3%)	78 %	120
Grain	Viking Pale Ale malt	5 kg (87%)	80 %	5
Grain	Pilznieński	0.5 kg (8.7%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	60 min	12 %
Boil	Amarillo	25 g	60 min	9.5 %
Boil	Cascade	25 g	20 min	6 %

Yeasts

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