

APA

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **46**
- SRM **4.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.333 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	1 kg (16.7%)	79 %	10
Grain	Viking Pale Ale malt	5 kg (83.3%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	20 g	15 min	13.2 %
Boil	Centennial	20 g	15 min	15.5 %
Whirlpool	Centennial	30 g	20 min	10.5 %
Whirlpool	Simcoe	30 g	20 min	13.3 %
Dry Hop	Amarillo	100 g	2 day(s)	8.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Fining	Irish Moss	10 g	Boil	15 min
Water Agent	Gips piwowarski	6 g	Mash	---