

APA Marxam

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **38**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **19.6 liter(s)**

Steps

- Temp **66 C**, Time **60 min**

Mash step by step

- Heat up **14.7 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (71.4%)	80 %	5
Grain	Strzegom Wiedeński	1 kg (20.4%)	79 %	10
Grain	Płatki owsiane	0.4 kg (8.2%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	25 g	60 min	11.2 %
Boil	Cascade	15 g	15 min	6 %
Boil	Cascade	15 g	5 min	6 %
Aroma (end of boil)	Cascade	20 g	1 min	6 %
Dry Hop	Citra	100 g	4 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis