

polpsz

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **45**
- SRM **3.7**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **9.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **76C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.4 kg (50%)	80 %	5
Grain	Pszeniczny	1.4 kg (50%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Izabella	15 g	60 min	7.6 %
Whirlpool	Izabella	20 g	30 min	7.6 %
Whirlpool	vermelho	20 g	30 min	9.1 %
Dry Hop	amora preta	30 g	4 day(s)	7.4 %
Dry Hop	vermelho	30 g	4 day(s)	9.1 %

Yeasts

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