

Polish Red Ale

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **26**
- SRM **12**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **76 C**, Time **2 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **2 min** at **76C**
- Sparge using **14.1 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (89.3%)	80 %	5
Grain	Weyermann - Carared	0.5 kg (8.9%)	75 %	45
Grain	Jęczmień palony	0.1 kg (1.8%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %
Boil	Marynka	15 g	30 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	10 g	15 min	4 %
Dry Hop	Lublin (Lubelski)	25 g	2 day(s)	4 %

Yeasts

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