

red ale

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **29**
- SRM **9.9**
- Style **Irish Red Ale**

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 **3.5 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **22.7 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **17.7 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.6 kg (71.3%)	85 %	7
Grain	Weyermann - Carared	0.4 kg (7.9%)	75 %	45
Grain	Monachijski	1 kg (19.8%)	80 %	16
Grain	Jęczmień palony	0.05 kg (1%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	55 min	7 %
Boil	Styrian Golding	30 g	20 min	3.6 %

Yeasts

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