

Irish Red

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **28**
- SRM **12.8**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **15.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.2 liter(s)**
- Total mash volume **10.9 liter(s)**

Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **8.2 liter(s)** of strike water to **70.1C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **10.4 liter(s)** of **76C** water or to achieve **15.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1 kg (36.8%)	80 %	5
Grain	Monachijski	0.5 kg (18.4%)	80 %	16
Grain	Red Active Viking Malt	1 kg (36.8%)	80 %	35
Grain	Jęczmień palony	0.02 kg (0.7%)	55 %	985
Grain	Strzegom Karmel 150	0.2 kg (7.4%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	15 g	55 min	10 %

Yeasts

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