

IRA

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **18**
- SRM **9.5**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.1 liter(s)**
- Total mash volume **20.2 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **15.1 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **75C**
- Sparge using **19 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (79.2%)	79 %	6
Grain	Weyermann - Carared	1 kg (19.8%)	75 %	45
Grain	Jęczmień palony	0.05 kg (1%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	50 min	4.5 %
Aroma (end of boil)	Fuggles	20 g	15 min	4.5 %

Yeasts

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