ira5

- Gravity 13.3 BLG
- ABV ---
- IBU **17**
- SRM **9.9**
- Style Irish Red Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.4 liter(s)
- Total mash volume 20.5 liter(s)

Steps

- Temp 64 C, Time 40 min
 Temp 72 C, Time 30 min
- Temp 80 C, Time 5 min

Mash step by step

- Heat up 15.4 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 30 min at 72C
- Keep mash 5 min at 80C
- Sparge using 20.1 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3.8 kg <i>(74.1%)</i>	81 %	4
Grain	Briess - Pale Ale Malt	0.25 kg <i>(4.9%)</i>	80 %	7
Grain	Monachijski	0.4 kg (7.8%)	80 %	16
Grain	Bestmalz Red X	0.25 kg <i>(4.9%)</i>	79 %	59
Grain	Karmelowy Czerwony	0.4 kg <i>(7.8%)</i>	75 %	59
Grain	Jęczmień palony 1000	0.03 kg <i>(0.6%)</i>	65 %	1970

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka (goryczkowy)	10 g	70 min	10 %
Boil	Saaz (Czech) aromat	15 g	30 min	4.5 %
Boil	Saaz (Czech) aromat	15 g	10 min	4.5 %

Yeasts

Name Typ	/pe	Form	Amount	Laboratory
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Safale S-04	Ale	Dry	11.5 g	Safale