IRA z Homebrewing

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU 24
- SRM **9.3**
- 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 16 liter(s)
- Total mash volume 20.5 liter(s)

Steps

- Temp 65 C, Time 30 min
 Temp 72 C, Time 20 min
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up 16 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 20 min at 72C
- Keep mash 5 min at 75C
- Sparge using 13.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (87.7%)	81 %	4
Grain	Carared	0.25 kg <i>(5.5%)</i>	75 %	39
Grain	Caraamber	0.25 kg <i>(5.5%)</i>	75 %	59
Grain	Jęczmień palony	0.06 kg <i>(1.3%)</i>	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	8.8 %
Aroma (end of boil)	Lubelski	20 g	10 min	4.4 %

Yeasts

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