

IRISH RED ALE wg D. Chrapek wer 2

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **31**
- SRM **14.9**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **31.8 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **31.3 liter(s)**

Steps

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

Mash step by step

- Heat up **24 liter(s)** of strike water to **74.1C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **31.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 5 kg (68.8%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 1 kg (13.8%) | 79 % | 16 |
| Grain | carabody | 0.5 kg (6.9%) | 75 % | 8 |
| Grain | Jęczmień palony | 0.1 kg (1.4%) | 55 % | 985 |
| Grain | Melanoiden Malt | 0.4 kg (5.5%) | 80 % | 39 |
| Grain | Caraaroma | 0.27 kg (3.7%) | 78 % | 400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil | Challenger | 40 g | 60 min | 7 % |
| Boil | Styrian Golding | 40 g | 20 min | 3.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------------------|------|--------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale | Liquid | 500 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 10 g | Boil | 15 min |