

Come or Nick

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **25**
- SRM **14.8**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.3 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **3 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **10 min** at **72C**
- Keep mash **3 min** at **78C**
- Sparge using **9.1 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|-----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (65.9%) | 80 % | 5 |
| Grain | Karmelowy Czerwony | 0.25 kg (5.5%) | 75 % | 50 |
| Grain | Strzegom Karmel 300 | 0.25 kg (5.5%) | 70 % | 299 |
| Grain | Jęczmień palony | 0.05 kg (1.1%) | 55 % | 985 |
| Grain | Jęczmień niesłodowany | 0.2 kg (4.4%) | 75 % | 2 |
| Grain | Weyermann - Carapils | 0.25 kg (5.5%) | 78 % | 4 |
| Adjunct | Płatki owsiane | 0.25 kg (5.5%) | 60 % | 3 |
| Grain | Strzegom Wiedeński | 0.3 kg (6.6%) | 79 % | 10 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Warrior | 10 g | 40 min | 15.5 % |
| Boil | Warrior | 5 g | 10 min | 15.5 % |
| Aroma (end of boil) | Warrior | 10 g | 2 min | 15.5 % |
| Dry Hop | Ariana | 30 g | 3 day(s) | 12.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech Irlandzki | 5 g | Boil | 10 min |