

irish RED

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **38**
- SRM **13.4**
- 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 **70 min**
- Evaporation rate **10 %/h**
- Boil size **20.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **20.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|--------------|-------|-----|
| Grain | Monachijski typ I | 3 kg (60%) | 80 % | 16 |
| Grain | Weyermann - Pale Ale Malt | 1 kg (20%) | 85 % | 7 |
| Grain | Weyermann - Carared | 0.5 kg (10%) | 75 % | 45 |
| Grain | Weyermann pszeniczny jasny | 0.25 kg (5%) | 80 % | 6 |
| Grain | Carahell | 0.2 kg (4%) | 77 % | 26 |
| Grain | Jęczmień palony | 0.05 kg (1%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil | Challenger | 30 g | 60 min | 7 % |
| Aroma (end of boil) | Challenger | 20 g | 15 min | 7 % |
| Aroma (end of boil) | Challenger | 10 g | 5 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|---------------------------|-----|-------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale | Slant | 100 ml | Fermentum Mobile |
|---------------------------|-----|-------|--------|------------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 2.5 g | Boil | 10 min |