

Red Ale

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **29**
- SRM **13.4**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **80 min**
- Evaporation rate **12 %/h**
- Boil size **25.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **25.5 liter(s)**
- Total mash volume **30.6 liter(s)**

Steps

- Temp **67 C**, Time **90 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **15 min**

Mash step by step

- Heat up **25.5 liter(s)** of strike water to **71.7C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **20 min** at **72C**
- Keep mash **15 min** at **76C**
- Sparge using **4.7 liter(s)** of **76C** water or to achieve **25.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------------|----------------|-------|------|
| Grain | Strzegom Pale Ale | 3.2 kg (62.7%) | 79 % | 6 |
| Grain | Strzegom Monachijski typ I | 1.5 kg (29.4%) | 79 % | 16 |
| Grain | Biscuit Malt | 0.1 kg (2%) | 79 % | 50 |
| Grain | Karmelowy Czerwony | 0.1 kg (2%) | 75 % | 59 |
| Grain | Viking melanoidynowy | 0.1 kg (2%) | 75 % | 60 |
| Grain | Weyermann - Dehusked Carafa III | 0.1 kg (2%) | 70 % | 1024 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Fuggles | 30 g | 60 min | 5.6 % |
| Boil | Fuggles | 25 g | 20 min | 5.6 % |

Yeasts

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

| | | | | |
|--------------------------|-----|--------|--------|------------|
| WLP004 - Irish Ale Yeast | Ale | Liquid | 120 ml | White Labs |
|--------------------------|-----|--------|--------|------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|---------|--------|
| Fining | Whirlfloc | 2 g | Boil | 15 min |