

Brown Ale

- Gravity **10 BLG**
- ABV **4 %**
- IBU **15**
- SRM **24.1**
- Style **Southern English Brown**

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 **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.8 liter(s)**

Steps

- Temp **68 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **16.4 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **40 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **20.8 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|--------|------|
| Grain | Simpsons - Maris Otter | 4 kg (73.4%) | 81 % | 6 |
| Grain | Fawcett - Brown | 1 kg (18.3%) | 72 % | 180 |
| Grain | Special B Malt | 0.25 kg (4.6%) | 65.2 % | 315 |
| Grain | Strzegom Czekoladowy ciemny | 0.2 kg (3.7%) | 68 % | 1200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnat | 15 g | 60 min | 10.5 % |