

Guinness podwórkowy

- Gravity **13.1 BLG**
- ABV ---
- IBU **34**
- SRM **34.6**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **57 C**, Time **30 min**
- Temp **67 C**, Time **90 min**
- Temp **76 C**, Time **15 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **63.2C**
- Add grains
- Keep mash **30 min** at **57C**
- Keep mash **90 min** at **67C**
- Keep mash **15 min** at **76C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 4 kg (71.4%) | 80 % | 5 |
| Grain | Płatki jęczmienne | 1 kg (17.9%) | 85 % | 3.9 |
| Grain | Jęczmień palony | 0.6 kg (10.7%) | 55 % | 1200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | East Kent Goldings | 65 g | 60 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| Espe | Ale | Dry | 5 g | --- |