

Caraaroma

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **36**
- SRM **10.9**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **22.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **29.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **75.3C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **20.1 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5 kg (94.9%) | 85 % | 7 |
| Grain | Caraaroma | 0.27 kg (5.1%) | 78 % | 400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil | Simcoe | 20 g | 60 min | 13.2 % |
| Aroma (end of boil) | East Kent Goldings | 50 g | 10 min | 5.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------------|------|-------|--------|-------------|
| Wyeast - 1318 London Ale III | Ale | Slant | 200 ml | Wyeast Labs |