

ESBek

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **44**
- SRM **10.2**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **17 %/h**
- Boil size **30.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **23 liter(s)**
- Total mash volume **28.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **23 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **30.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|--------------|-------|-----|
| Grain | Maris Otter Crisp | 5 kg (87%) | 83 % | 6 |
| Grain | Caramel/Crystal Malt - 70L | 0.52 kg (9%) | 74 % | 135 |
| Grain | Brown Malt (British Chocolate) | 0.23 kg (4%) | 70 % | 128 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | Challenger | 58 g | 60 min | 6 % |
| Boil | East Kent Goldings | 33 g | 20 min | 5.6 % |
| Boil | East Kent Goldings | 17 g | 0 min | 5.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------|------|------|--------|------------|
| crossmyloof brew FOUR | Ale | Dry | 10 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------|--------|---------|--------|
| Water Agent | AMS | 6.5 g | Mash | 60 min |

| | | | | |
|-------------|------------------|-------|------|--------|
| Water Agent | DWB | 36 g | Mash | 60 min |
| Water Agent | Campden tablet | 0.8 g | Mash | 60 min |
| Fining | Super Irish Moss | 1.5 g | Boil | 15 min |

Notes

- Woda do zacierania 23 lity do tego jedna pokruszona tabletki campden tablet + 3.9ml AMS + 21.8g DWB.
Do wysładzania 15 litrów wody + 0.5 campden tablet + 2.6 ml AMS + 14.2g DWB.
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