English Brown Ale

- Gravity 13.1 BLG
- ABV ----
- IBU 25
- SRM **18.2**
- Style American Brown Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.1 liter(s)
- Total mash volume 18.8 liter(s)

Steps

- Temp **64 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 14.1 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 18.1 liter(s) of 76C water or to achieve 27.5 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------------|-------|-----|
| Grain | Pilzneński | 4 kg (85.1%) | 81 % | 4 |
| Grain | Strzegom Karmel 30 | 0.4 kg (8.5%) | 75 % | 30 |
| Grain | Czekoladowy | 0.1 kg <i>(2.1%)</i> | 60 % | 788 |
| Grain | Simpsons - Coffee Malt | 0.2 kg <i>(4.3%)</i> | 74 % | 296 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil | Marynka | 16 g | 60 min | 10 % |
| Boil | East Kent Goldings | 25 g | 15 min | 5.1 % |
| Aroma (end of boil) | Tradition | 10 g | 0 min | 4.5 % |
| Aroma (end of boil) | East Kent Goldings | 25 g | 0 min | 5.1 % |

Yeasts

| Name | Туре | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| us-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Туре | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|--------|
| Water Agent | Gips piwowarski | 4 g | Mash | 60 min |