- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **29**
- SRM 3.6
- Style American Pale Ale

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 70 %
- Liquor-to-grist ratio 6 liter(s) / kg Mash size 30 liter(s)
- Total mash volume 35 liter(s)

Steps

• Temp 65 C, Time 60 min

Mash step by step

- Heat up 30 liter(s) of strike water to 68.8C
- Add grains
- Keep mash 60 min at 65C
- Sparge using 1.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|------------|---------------------|-------|-----|
| Grain | Pilzneński | 4.3 kg (86%) | 81 % | 4 |
| Grain | Pszeniczny | 0.7 kg <i>(14%)</i> | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil | lunga | 5 g | 60 min | 9.3 % |
| Boil | Spalt | 30 g | 60 min | 5.3 % |
| Boil | Spalt | 30 g | 10 min | 5.3 % |

Yeasts

| Name | Туре | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safbrew S-33 | Ale | Dry | 11.5 g | Safbrew |