Alt

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU 27
- SRM **7.3**
- Style Specialty Beer

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 15.8 liter(s)
- Total mash volume 20.3 liter(s)

Steps

- Temp 64 C, Time 30 min
 Temp 72 C, Time 30 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 15.8 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 14 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|--------------------------|-----------------------|-------|-----|
| Grain | Monachijski | 3 kg (66.7%) | 80 % | 16 |
| Grain | Pilzneński | 1 kg (22.2%) | 81 % | 4 |
| Grain | Karmelowy Jasny 30EBC | 0.5 kg <i>(11.1%)</i> | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 20 g | 50 min | 12.1 % |

Yeasts

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