### **Aba**

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU **44**
- SRM **21.2**
- Style American Brown Ale

# **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 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

### **Steps**

- Temp **64 C**, Time **25 min** Temp **68 C**, Time **35 min**
- Temp 74 C, Time 10 min

# Mash step by step

- Heat up 16.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 25 min at 64C
- Keep mash 35 min at 68C
- Keep mash 10 min at 74C
- Sparge using 14.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

# **Fermentables**

| Туре  | Name                           | Amount                | Yield | EBC |
|-------|--------------------------------|-----------------------|-------|-----|
| Grain | Strzegom<br>Monachijski typ II | 2.5 kg <i>(45.5%)</i> | 79 %  | 22  |
| Grain | Strzegom Karmel<br>300         | 0.6 kg <i>(10.9%)</i> | 70 %  | 300 |
| Grain | Crystal II 200                 | 0.5 kg (9.1%)         | 71 %  | 200 |
| Grain | Viking Pale Ale malt           | 1.9 kg <i>(34.5%)</i> | 80 %  | 5   |

### Hops

| Use for             | Name  | Amount | Time   | Alpha acid |
|---------------------|-------|--------|--------|------------|
| Boil                | Citra | 5 g    | 60 min | 14.2 %     |
| Boil                | Citra | 10 g   | 45 min | 14.2 %     |
| Boil                | Citra | 10 g   | 35 min | 14.2 %     |
| Aroma (end of boil) | Perle | 10 g   | 25 min | 7 %        |
| Aroma (end of boil) | Perle | 10 g   | 15 min | 7 %        |
| Aroma (end of boil) | Perle | 5 g    | 5 min  | 7 %        |

# **Yeasts**

| Name Type | Form | Amount | Laboratory |
|-----------|------|--------|------------|
|-----------|------|--------|------------|

| Gozdawa Pure Ale A<br>Yeast 7 | Ale | Dry | 10 g |  |
|-------------------------------|-----|-----|------|--|
|-------------------------------|-----|-----|------|--|