

American Pils

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **33**
- SRM **3.3**
- Style **Classic American Pilsner**

Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **7 %**
- Size with trub loss **28.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **37.2 liter(s)**

Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.7 liter(s)**
- Total mash volume **25.3 liter(s)**

Steps

- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **19.7 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **40 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **23.1 liter(s)** of **76C** water or to achieve **37.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 5 kg (88.8%) | 82 % | 4 |
| Grain | Weyermann - Carapils | 0.2 kg (3.6%) | 78 % | 4 |
| Grain | Pszeniczny | 0.3 kg (5.3%) | 85 % | 4 |
| Grain | Carahell | 0.13 kg (2.3%) | 77 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil | Summit | 27 g | 60 min | 15.8 % |
| Aroma (end of boil) | Citra | 30 g | 0 min | 12 % |
| Aroma (end of boil) | Centennial | 30 g | 0 min | 10.5 % |
| Dry Hop | Amarillo | 20 g | 3 day(s) | 9.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------|-------|------|--------|------------|
| Saflager S-23 | Lager | Dry | 11.5 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 15 g | Boil | 15 min |