

American Pils

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **43**
- SRM **3.1**
- Style **Classic American Pilsner**

Batch size

- Expected quantity of finished beer **38 liter(s)**
- Trub loss **5 %**
- Size with trub loss **41.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **52.4 liter(s)**

Mash information

- Mash efficiency **84 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **30.4 liter(s)**

Steps

- Temp **63 C**, Time **30 min**
- Temp **70 C**, Time **40 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **40 min** at **70C**
- Sparge using **37.2 liter(s)** of **76C** water or to achieve **52.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|-----------------------------------|---------------|-------|-----|
| Grain | Mep Pilsner | 5 kg (61.7%) | 84 % | 4 |
| Grain | Weyermann - Carapils | 0.5 kg (6.2%) | 78 % | 4 |
| Grain | Dextrin Malt Crisp | 0.4 kg (4.9%) | 80 % | 3 |
| Grain | Pale Ale Clear Choice Extra-Crisp | 0.5 kg (6.2%) | 77 % | 3 |
| Grain | CaraBody-Viking Malt | 0.4 kg (4.9%) | 75 % | 5 |
| Grain | Pale Ale Maris Otter Extra-Crisp | 0.8 kg (9.9%) | 80 % | 3 |
| Adjunct | Platki owsiane | 0.5 kg (6.2%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil | Chinook | 30 g | 60 min | 11.7 % |
| Boil | Cascade | 20 g | 20 min | 8.3 % |
| Boil | Centennial | 20 g | 20 min | 10.5 % |
| Boil | Citra | 25 g | 10 min | 13.1 % |
| Aroma (end of boil) | Citra | 25 g | 5 min | 13.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------------------------|-------|-------|--------|------------|
| Lallemand Diamond Lager Yeast | Lager | Slant | 400 ml | --- |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------|--------|---------|--------|
| Fining | Whirlfloc-T | 5 g | Boil | 10 min |