

4Hops

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **39**
- SRM **3.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **26.9 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------|---------------|-------|-----|
| Grain | Pilzneński | 5.5 kg (100%) | 81 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil | Pekko | 15 g | 60 min | 13.6 % |
| Boil | Motueka | 20 g | 10 min | 7 % |
| Boil | Centennial | 20 g | 10 min | 9.4 % |
| Boil | Cascade | 20 g | 10 min | 6 % |