

APA BITWA

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **38**
- SRM **4.2**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------|--------------|-------|-----|
| Grain | Pilzneński | 2.7 kg (90%) | 81 % | 4 |
| Grain | Monachijski | 0.3 kg (10%) | 80 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|---------------|--------|----------|------------|
| Boil | Magnum | 15 g | 60 min | 12.7 % |
| Whirlpool | Amarillo | 100 g | 1 min | 8 % |
| Dry Hop | Nelson Sauvín | 50 g | 2 day(s) | 11 % |