

Pale stAle

- Gravity **13.1 BLG**
- ABV ---
- IBU **45**
- SRM **7.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 2.2 kg (38.6%) | 79 % | 6 |
| Grain | Monachijski | 1 kg (17.5%) | 80 % | 16 |
| Grain | Strzegom Karmel 30 | 0.5 kg (8.8%) | 75 % | 30 |
| Grain | Strzegom Pilzneński | 2 kg (35.1%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|-----------|------------|
| Boil | Wakatu | 50 g | 60 min | 8.5 % |
| Boil | WAI-ITI | 20 g | 10 min | 4.1 % |
| Boil | WAI-ITI | 20 g | 5 min | 4.1 % |
| Boil | WAI-ITI | 30 g | 1 min | 4.1 % |
| Dry Hop | WAI-ITI | 30 g | 14 day(s) | 4.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 10 g | Mangrove Jack's |