

# AAA

- Gravity **13.1 BLG**
- ABV ---
- IBU **39**
- SRM ---
- Style **American Amber Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **76C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                          | Amount       | Yield | EBC |
|-------|-------------------------------|--------------|-------|-----|
| Grain | Strzegom Monachijski typ I    | 0.5 kg (10%) | --- % | --- |
| Grain | Weyermann - Carared           | 0.3 kg (6%)  | --- % | --- |
| Grain | Strzegom Pale Ale             | 3.8 kg (76%) | --- % | --- |
| Grain | Weyermann - Caramunich typ I  | 0.2 kg (4%)  | --- % | --- |
| Grain | weyermann - Caramunich typ II | 0.2 kg (4%)  | --- % | --- |

## Hops

| Use for    | Name   | Amount | Time   | Alpha acid |
|------------|--------|--------|--------|------------|
| First Wort | lunga  | 12 g   | ---    | 11 %       |
| Boil       | lunga  | 20 g   | 60 min | 11 %       |
| Boil       | lunga  | 15 g   | 30 min | 11 %       |
| Whirlpool  | Citra  | 15 g   | 0 min  | 13.5 %     |
| Whirlpool  | Simcoe | 10 g   | 0 min  | 11.4 %     |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|             |     |     |      |     |
|-------------|-----|-----|------|-----|
| Safale S-05 | Ale | Dry | 11 g | --- |
|-------------|-----|-----|------|-----|

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 5 g    | Boil    | 15 min |